



The International Meeting for Applied Geoscience and Energy

28 August–1 September 2023

George R. Brown Convention Center
Houston, Texas

ImageEvent.org

Official Program



Official Program Sponsor:



The **ISTI** *ADVANTAGE* Seismic Monitoring Services

*Real-Time Decision Support
Know as you go!*

EXPERIENCE: Major US Basins

KNOWLEDGE: Consulting Seismologists

JUST RIGHT INSTRUMENTATION: Geophone, Wideband, Broadband

INFRASTRUCTURE: Secure, Scalable Cloud Data Center

24/7 OPERATIONS

*Please visit
us at
booth #700*

**Choose ISTI for your CCUS, Geothermal or
Well Completion Seismicity Monitoring**



Instrumental Software Technologies, Inc.

isti.com



Welcome to IMAGE '23

Mobile App Information

Go Mobile! Download the IMAGE Events App

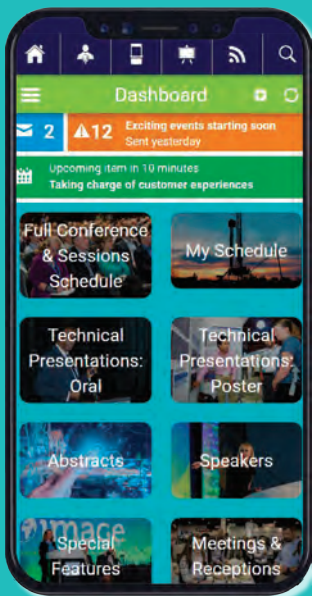
Available for both iOS and Android devices, the IMAGE Events App allows you access to all the meeting information and details in the palm of your hand. Download for FREE today!



How to Download:

- Download the "IMAGE Events" App from the Apple App Store or Google Play
- Enter your email address used when registering for the event
- Enter your customer ID as the password

Note: Your customer ID can be found under the bar code on your original registration confirmation email or on your printed attendee badge.



App Features:

- View the full program, individual sessions, presentations, and events
- Find general event information, times, and locations
- Judge technical program presentations
- Access the full speaker list
- Connect directly with exhibitors
- Navigate exhibition and convention center floorplans
- Set up your profile and schedule
- Network and chat with attendees
- Review presentation abstracts

Table of Contents

Letter from the Co-Chairs.....	3
Steering Committee	4
Oversight Committee.....	6
Thank You to Our Sponsors.....	8
Schedule at a Glance.....	10
Code of Conduct	12
General Information.....	13
Hotel Maps.....	14
Opening Session	16
Honors and Awards Ceremonies.....	16
Special Features and Events.....	17
Breakfast, Luncheons, and Receptions	20
Panel Sessions	21
SEG EVOLVE & Field Camps Joint Session.....	26
Student Events	27
Committee Meetings.....	27
Field Trip	28
Bookstore	28
SEPM Activities at IMAGE.....	29
Content Area Pavilions	30
Global Energy Opportunities Pavilion.....	31
U-Pitch New Technology Showcase.....	32
Postconvention Workshops	34
Short Courses.....	35
Work Hard, Play Hard!	36
Technical Program Information.....	38
IMAGE '23 Technical Program Committee ..	39
Top Presentations at IMAGE '22	40
Technical Program Floor Map.....	41
Technical Program Grid – Oral Sessions	42
Technical Program Grid – Poster Sessions.....	44
Technical Program Topics at a Glance	46
Oral Sessions	50
Exhibition Floor.....	118
Exhibitor List.....	120
Exhibitor Directory	122
Category Listings	140

FOLLOW SEG



SEG.ORG

FOLLOW AAPG



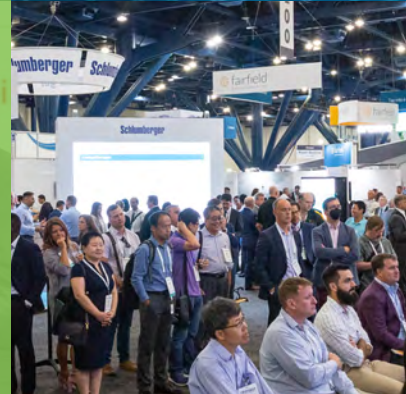
AAPG.ORG



It All



Starts



Here



Letter from the Co-Chairs

Welcome to the International Meeting for Applied Geoscience and Energy (IMAGE) 2023. We are excited you are part of this powerhouse meeting for interdisciplinary sciences in energy. It's an exciting year as we've turned the corner from the pandemic and look into a bright future of emerging technologies in applied geoscience and geophysics. This year's program was put together with intentions to be the premier industry gathering place for professionals in oil and gas, emerging energy sectors, and students looking to grow the future of a strong community.

This year, IMAGE was able to build a robust technical program with over 2,000 abstract submissions from all over the world. The 60% increase in submissions was matched with increased interest from exhibitors as well. Over 250 companies and vendors are here and over 24 countries will be in the Global Energy Opportunities Pavilion.

In addition, IMAGE '23's strategic panel program aims to focus on current issues facing our industry today. As our industry moves into diversity of all energy sectors, panels will focus on this addition and the challenges we face in the future ahead.

Panel sessions and pavilion talks on the exhibit floor with targeted content are a can't miss! Come discuss the feasibility and challenges of CCUS and collaborate with other colleagues in the carbon capture space in the Carbon Management Pavilion. Visit the U-Pitch Pavilion to gather with everyone from angel investors to business executives looking

to leverage their current business into new avenues capitalizing on emerging technology. Further your understanding of AI in the energy industry in the Digitalization Pavilion and learn what opportunities are emerging for subsurface data in the cloud. Collaborate with others on how high-performance computing is shaping exploration, simulation, and operations in the geo-energy world. Find what new technologies are shaping how we view the challenges and opportunities to be found in the Near-Surface Pavilion.

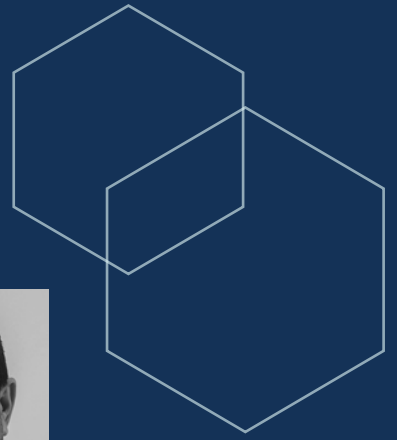
This year, we've also put emphasis on the fun side of networking. Don't forget to visit the "Gathering Place" at the back of the exhibit hall for perhaps your favorite podcaster, a cold beverage in the themed biergarten, and a chat with other members at all walks of life within industry. We'll have pointed topics at happy hour each day for a conversational ice breaker. Come talk about your favorite field you worked, the most famous (or infamous!) well you drilled, or what you've learned most in your time in the industry. Network alongside your favorite member's art in the Art Show, or learn more about how to be involved with various groups in the energy industry.

With our most energized technical program in IMAGE history, stimulating panels and talks spread throughout the conference, and engaging networking opportunities targeting all industry areas, we're sure you will benefit from an exciting week and a multitude of takeaways to share with your industry peers.

IMAGE '23 Steering Committee Chairs

Lisa Helper and Daniel Sutton

Steering Committee



Daniel Sutton
Oxy
AAPG General Co-Chair



Lisa Helper
Hilcorp
SEG General Co-Chair



Aria Abubakar
SLB
SEG Technical Program
Co-Chair



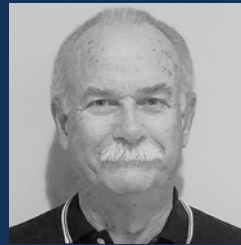
Aiman M. Bakhorji
Saudi Aramco
AAPG Technical Program
Co-Chair



Wenyi Hu
SLB
SEG Technical Program
Co-Vice Chair



Mukarram Ahmed
Saudi Aramco
AAPG Technical Program
Co-Vice Chair



Howard Harper
SEPM
SEPM Coordinator



Camelia Knapp
Oklahoma State University
Carbon Management
Pavilion Co-Chair



Jessica Parker
Chevron
Industry Engagement
Co-Chair



Huyen Bui
Shell
Industry Engagement
Co-Chair



Laura Pommer
EnergyFunders
Strategic Panels Co-Chair



Meredith Faber
Aramco Americas
Strategic Panels Co-Chair



Alexandros Savvaidis
The University of Texas
at Austin
Digitalization Pavilion Chair



Rebecca Caldwell
Chevron
Diversity, Equity, and
Inclusion Co-Chair



Cara Hunter
SLB
Diversity, Equity, and
Inclusion Co-Chair



Tim Prather
TC Energy
Commercial Skills
& Education Chair



Paula de Oliveira
Carbon Management
Pavilion Co-Chair
Special Programs Chair



Nicole Gonzalez
ExxonMobil
Student & Young
Professionals Co-Chair



Russell Miller
Oxy
Student & Young
Professionals Co-Chair

The Aramco logo consists of the word "aramco" in a white, lowercase, sans-serif font.A male scientist with a beard and mustache, wearing safety glasses and purple gloves, is working in a laboratory. He is holding a small white vial. In the background, there is a large glass tube with a yellow cap labeled "aramco". The scene is lit with dramatic, low-key lighting, and there are decorative white wireframe patterns on the left and right sides of the image.

Working on tomorrow's energy challenges today

Through our participation in and support for professional societies and events like the International Meeting for Applied Geoscience & Energy conference, we bring our knowledge, experience, creativity, and perspective to address tomorrow's energy challenges today.

We invite you to visit us at IMAGE, exhibit booth #833.

americas.aramco.com

Oversight Committee



Gretchen M. Gillis
Aramco Americas
Chair



Wafik Beydoun
IOGP
SEG Co-Chair



Baishali Roy
ConocoPhillips
SEG Co-Chair



Anne C. Draucker
Chevron
AAPG Co-Chair



Richard D. Fritz
SM Energy Company
AAPG Co-Chair



David Curtiss
AAPG
Executive Director



Jim White
SEG
Executive Director



Alan Wegener
AAPG
Staff Liaison



Tom Agnew
SEG
Staff Liaison

Follow us on social media
to stay informed about everything
happening at IMAGE.

#IMAGE23



Seeing the innovations of tomorrow start today.

Solving energy challenges will require our best thinking. At Chevron, we're constantly applying technology in innovative ways to expand what's possible. Like designing next-generation software to better analyze data, and partnering with universities and research institutions to help develop the energy advancements that will help us meet the world's energy demands for decades to come. **Learn more at [chevron.com](https://www.chevron.com)**

the
human
energy
company[®]



Thank You to Our Sponsors

Sponsor listing is current as of 22 August 2023

Diamond Sponsors



Titanium Sponsors



Platinum Sponsors



Gold Sponsors



Silver Sponsors



Seeing beyond

Bronze Sponsors



Patron Sponsors



Media Sponsors



www.shell.us/careers

You can progress as we work on the energy transition together.

Scan the QR code
to learn more
about careers
at Shell



**Power Your
Progress**



Schedule at a Glance

All events take place at the George R. Brown Convention Center and/or the hotels unless otherwise noted.

SATURDAY, 26 AUGUST

Preconvention Field Trip

SUNDAY, 27 AUGUST

Registration

8:00 a.m.–5:30 p.m.

Preconvention Short Courses

8:00 a.m.–5:00 p.m.

SEG/Chevron Student Leadership Symposium (SLS) — Day 1

12:00 p.m.–5:00 p.m.

SEG Gravity and Magnetics Committee Meeting

5:00 p.m.–6:00 p.m.

MONDAY, 28 AUGUST

Registration

7:30 a.m.–7:00 p.m.

Preconvention Short Courses

8:00 a.m.–4:00 p.m.

SEG DISC with Phil Ringrose

8:00 a.m.–4:00 p.m.

SEG/Chevron Student Leadership Symposium (SLS) — Day 2

8:30 a.m.–3:30 p.m.

SEG Council Meeting and Presidential Address

1:00 p.m.–3:00 p.m.

Opening Session: Sustainability and our Geoscience Enterprise — Exploring our Grand Challenges

4:30 p.m.–5:30 p.m.

Exhibition and Icebreaker Reception

5:30 p.m.–7:30 p.m.

Early Career Networking Reception

(by invitation only)

6:30 p.m.–8:00 p.m.

Satellite registration is available at the hotels. Times will be posted online.

TUESDAY, 29 AUGUST

Registration

7:00 a.m.–5:30 p.m.

Oral Sessions (Morning)

8:00 a.m.–12:00 p.m.

SEG Challenge Bowl World Finals

8:00 a.m.–10:00 a.m.

Exhibition

9:00 a.m.–6:00 p.m.

Digitalization Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Carbon Management Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Near-Surface Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Refreshment Break

9:30 a.m.–10:30 a.m.

GEO Pavilion Theatre Presentations

10:00 a.m.–11:20 a.m.

Poster Sessions (Morning)

10:20 a.m.–12:00 p.m.

Strategic Panel: Revitalizing the Energy Workforce Post-Pandemic and Across Generations

10:20 a.m.–11:35 a.m.

U-Pitch New Technology Showcase

10:00 a.m.–5:00 p.m.

All-Convention Luncheon

11:30 a.m.–1:15 p.m.

SEG Near-Surface Geophysics Technical Section Committee Meeting

12:00 p.m.–1:00 p.m.

Strategic Panel: Powering the Energy Landscape of Tomorrow: Successful Geoscience Collaboration with Diverse Teams

1:20 p.m.–2:35 p.m.

Oral Sessions (Afternoon)

1:20 p.m.–5:20 p.m.

Poster Sessions (Afternoon)

1:20 p.m.–5:20 p.m.

GEO Pavilion Theatre Presentations

2:00 p.m.–3:20 p.m.

Refreshment Break

3:00 p.m.–4:00 p.m.

SEG JEDI Committee Open House

3:00 p.m.–4:00 p.m.

Strategic Panel: The Energy Transition: Modernizing Business Workflows and Optimizing the Data Supply Chain

3:40 p.m.–4:55 p.m.

Early Career Speed Mentoring

3:00 p.m.–5:00 p.m.

End-of-Day Reception

5:00 p.m.–6:00 p.m.

SEG Geoscientists *without Borders*® Reception

5:00 p.m.–6:00 p.m.

AAPG Honors & Awards Ceremony

6:30 p.m.–7:30 p.m.

SEG Honors & Awards Ceremony

6:30 p.m.–7:30 p.m.

SEG Near-Surface Geophysics Technical Section Reception

7:00 p.m.–10:00 p.m.

SEPM Research Group Meetings

7:00 p.m.–10:00 p.m.

AAPG/SEG Presidents' Reception

(by invitation only)

7:30 p.m.–8:30 p.m.

Presidential Jam

8:30 p.m.–12:00 a.m.

WEDNESDAY, 30 AUGUST

Registration

7:30 a.m.–5:30 p.m.

American Geosciences Institute — Geoscience Development Roundtable Breakfast

8:00 a.m.–12:00 p.m.

Note: Information is current as of 8 August 2023
All times throughout this guide are listed in Central Daylight Time.

Oral Sessions (Morning)

8:00 a.m.–12:00 p.m.

ICEG Meeting

8:00 a.m.–9:00 a.m.

Strategic Panel: Digital Geoscience and Operations: Case Studies from Onshore, Offshore, and Unconventionals

8:00 a.m.–9:15 a.m.

AAPG Foundation Forum

8:30 a.m.–10:00 a.m.

Exhibition

9:00 a.m.–6:00 p.m.

Digitalization Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Carbon Management Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Near-Surface Pavilion Theatre Presentations

9:00 a.m.–6:00 p.m.

Refreshment Break

9:30 a.m.–10:30 a.m.

SEG EVOLVE and SEG Field Camps

10:00 a.m.–5:30 p.m.

GEO Pavilion Theatre Presentations

10:00 a.m.–11:20 a.m.

U-Pitch New Technology Showcase

10:00 a.m.–5:00 p.m.

Poster Sessions (Morning)

10:20 a.m.–12:00 p.m.

Strategic Panel: The Energy Addition: Energy Industry Diversification Strategies

10:20 a.m.–11:35 a.m.

Digital Wildcatters Live Session in the Gathering Place

10:30 a.m.–11:30 a.m.

AAPG Division of Professional Affairs (DPA) Luncheon

11:30 a.m.–1:00 p.m.

AAPG Women's Network Luncheon

11:30 a.m.–1:00 p.m.

SEG Gravity and Magnetics Luncheon

11:30 a.m.–1:00 p.m.

Strategic Panel: The Power of Partnership: Utilizing Higher Education Resources to Support Industry Innovation and Growth

1:20 p.m.–2:35 p.m.

Oral Sessions (Afternoon)

1:20 p.m.–5:20 p.m.

Poster Sessions (Afternoon)

1:20 p.m.–5:20 p.m.

Special Session: Discovery Thinking

1:20 p.m.–5:20 p.m.

Digital Wildcatters Live Session in the Gathering Place

1:30 p.m.–2:30 p.m.

GEO Pavilion Theatre Presentations

2:00 p.m.–3:40 p.m.

End-of-Day Reception

5:00 p.m.–6:00 p.m.

SEG Mining and Mineral Exploration Committee Meeting

5:00 p.m.–6:30 p.m.

Michel T. Halbouty Lecture

5:25 p.m.–6:15 p.m.

Alumni Receptions

5:30 p.m.–7:30 p.m.

AAPG Foundation Chairman's Reception (by invitation only)

6:30 p.m.–8:30 p.m.

AAPG/SEG Latin America and Caribbean Region Meeting and Reception

7:00 p.m.–8:30 p.m.

THURSDAY, 31 AUGUST

SEG CO₂ Research Sub-Committee Meeting

7:00 a.m.–7:45 a.m.

Women's Networking Breakfast at Phoenicia MKT

7:00 a.m.–9:00 a.m.

Registration

7:30 a.m.–2:30 p.m.

Oral Sessions (Morning)

8:00 a.m.–12:00 p.m.

SEG Applied Sciences Educational Program (ASEP)

9:00 a.m.–1:00 p.m.

Exhibition

9:00 a.m.–3:00 p.m.

Digitalization Pavilion Theatre Presentations

9:00 a.m.–3:00 p.m.

Carbon Management Pavilion Theatre Presentations

9:00 a.m.–3:00 p.m.

Near-Surface Pavilion Theatre Presentations

9:00 a.m.–3:00 p.m.

U-Pitch New Technology Showcase

10:00 a.m.–12:00 p.m.

Poster Sessions (Morning)

10:20 a.m.–12:00 p.m.

Strategic Panel: The Future of Energy Investment: The Next Five Years

10:20 a.m.–11:35 a.m.

SEG Development and Production Luncheon

11:30 a.m.–1:00 p.m.

AAPG Energy and Minerals Division (EMD) and AAPG Division of Environmental Geologists (DEG) Luncheon

11:30 a.m.–1:00 p.m.

Schedule continues on next page

Schedule at a Glance (continued)

SEG Hydrogeophysics Committee Meeting
12:00 p.m.–1:00 p.m.

Strategic Panel: ESG in 2023: Strategies for Building Positive Industry Messaging and Community Trust
1:20 p.m.–2:35 p.m.

Poster Sessions (Afternoon)
1:20 p.m.–3:00 p.m.

Oral Sessions (Afternoon)
1:20 p.m.–4:50 p.m.

The Geology of Beer: An In-Person Tasting Experience for Geoscientists and Beer Enthusiasts! AAPGWN, AWG Lone Star, Midwest GeoSciences
3:00 p.m.–5:00 p.m.
True Anomaly Brewing
2012 Dallas St.

SEG Research Committee Meeting
5:00 p.m.–7:30 p.m.

SEG Development and Production Committee Meeting
5:30 p.m.–6:30 p.m.

SEG Hydrogeophysics Committee Meeting
7:00 p.m.–8:00 p.m.

FRIDAY, 1 SEPTEMBER

Postconvention Workshops
8:30 a.m.–5:00 p.m.

Postconvention Short Course at SLB Training Center
8:30 a.m.–5:00 p.m.

Code of Conduct

The IMAGE volunteer leadership and staff will enforce this code throughout the event.

IMAGE is dedicated to providing a harassment-free convention experience for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, nationality, or religion. We do not tolerate harassment of convention participants in any form.

All communication, whether casual or formal, should be appropriate for a professional audience including people of many different backgrounds.

Be careful in the words that you choose. Remember that sexist, racist, and other exclusionary jokes can be offensive to those around you. Excessive swearing and offensive jokes are not appropriate at IMAGE events.

Sexual language and imagery is not appropriate for any convention venue, including talks.

Harassment includes offensive communication related to gender, sexual orientation, disability, physical appearance, body size, race, nationality, religion, sexual images in public spaces, deliberate intimidation, stalking, following, harassing photography or recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome sexual attention.

Be kind to others. Do not insult or put down other attendees.

Behave professionally.

Exhibitors are also subject to the anti-harassment policy and are required to conduct themselves in a manner consistent with the professional and business purposes of the show.

Personnel and/or models contracted to assist in an exhibitor's booth are required to wear appropriate attire. In particular, exhibitors should not use sexualized images, activities, or other material, and booth staff should not use sexualized clothing/uniforms/costumes, or otherwise create a sexualized environment.

IMAGE reserves the right to make a final determination regarding what is acceptable and may remove persons from the exhibition floor that are not in compliance.

If a participant engages in behavior that violates this code of conduct, IMAGE reserves the right to take any action deemed appropriate, including warning the offender(s) or expelling the offender(s) from the convention with no refund.

Reporting

If someone makes you or anyone else feel unsafe or unwelcome, please report the incident to a convention staff member as soon as possible. You can make a report either personally or anonymously online at <https://www.imageevent.org/attend/care-report>.

If you have any questions or concerns, please notify a badged IMAGE Show Management staff member or call 1-800-898-2274.

General Information

On-Site Registration

Location: Lobby D (street level)

Sunday	8:00 a.m.–5:00 p.m.
Monday	7:30 a.m.–7:00 p.m.
Tuesday	7:00 a.m.–5:30 p.m.
Wednesday	7:30 a.m.–5:30 p.m.
Thursday	7:30 a.m.–2:30 p.m.

Satellite Registration (at Hotels)

Location: Marriott Marquis Houston

Level 2 Near Skybridge to Convention Center

Sunday	8:00 a.m.–5:00 p.m.
Monday	8:00 a.m.–5:00 p.m.
Tuesday	7:00 a.m.–1:00 p.m.

Location: Hilton Americas – Houston

Level 2 Near Skybridge to Convention Center

Saturday	12:00 p.m.–5:00 p.m.
Sunday	8:00 a.m.–5:00 p.m.
Monday	8:00 a.m.–5:00 p.m.
Tuesday	7:00 a.m.–1:00 p.m.

Exhibition

Location: Exhibit Halls D and E

Monday	5:30 p.m.–7:30 p.m.
Tuesday	9:00 a.m.–6:00 p.m.
Wednesday	9:00 a.m.–6:00 p.m.
Thursday	9:00 a.m.–3:00 p.m.

Speaker Ready Room

Location: Room 350D

Monday	12:00 p.m.–4:00 p.m.
Tuesday	7:00 a.m.–6:00 p.m.
Wednesday	7:00 a.m.–6:00 p.m.
Thursday	7:00 a.m.–5:00 p.m.
Friday	7:00 a.m.–5:00 p.m.

Audio/Video/Photographs

Please note that audio recording, video recording, or photographing any portion of IMAGE '23 is strictly prohibited. Capturing or photographing contents of exhibit displays, or Oral or Poster Technical and Panel Sessions is strictly prohibited.

Consent to Use Photographic Images

Registration, attendance, and/or participation in IMAGE and/or IMAGE-sanctioned activities constitutes agreement by the registrant to IMAGE's use and distribution (both now and in the future) of the registrant's or attendee's image and/or voice in recordings of such events and activities.

First Aid/Medical Services

Location: Lobby E (street level)

Friday	8:00 a.m.–5:00 p.m.
Saturday	8:00 a.m.–5:00 p.m.
Sunday	8:00 a.m.–5:00 p.m.
Monday	7:30 a.m.–8:00 p.m.
Tuesday	7:00 a.m.–10:00 p.m.
Wednesday	7:30 a.m.–6:00 p.m.
Thursday	7:30 a.m.–10:00 p.m.
Friday	8:00 a.m.–5:00 p.m.

Federal Express/Business Services

Federal Express and other business services are available at the following nearby hotels:

Hilton Americas – Houston

Located on the 3rd floor next to the east end elevators and skywalk to the George R. Brown Convention Center.

Hours of Operation:

Monday–Friday	7:00 a.m.–7:00 p.m.
Saturday	8:00 a.m.–4:00 p.m.
Sunday	10:00 a.m.–4:00 p.m.

Contact:

FedEx Office	713-651-3013
Direct Hotel Line	6122

Marriott Marquis Houston

Business Center is operated by in-house FedEx staff.

Hours of Operation:

Monday–Friday	7:00 a.m.–7:00 p.m.
Saturday	8:00 a.m.–12:00 p.m.
Sunday	12:00 p.m.–4:00 p.m.

Contact:

Phone	713-222-0070
Email	usa5705@fedex.com

Lost and Found

Location: Registration

Lose something while in a technical session? Find something in registration that someone dropped? Please visit the lost and found located at Registration in Lobby D. Items found during the show should be turned into IMAGE Show Management personnel. If your lost items have not been turned in, you can leave your contact information at Registration.

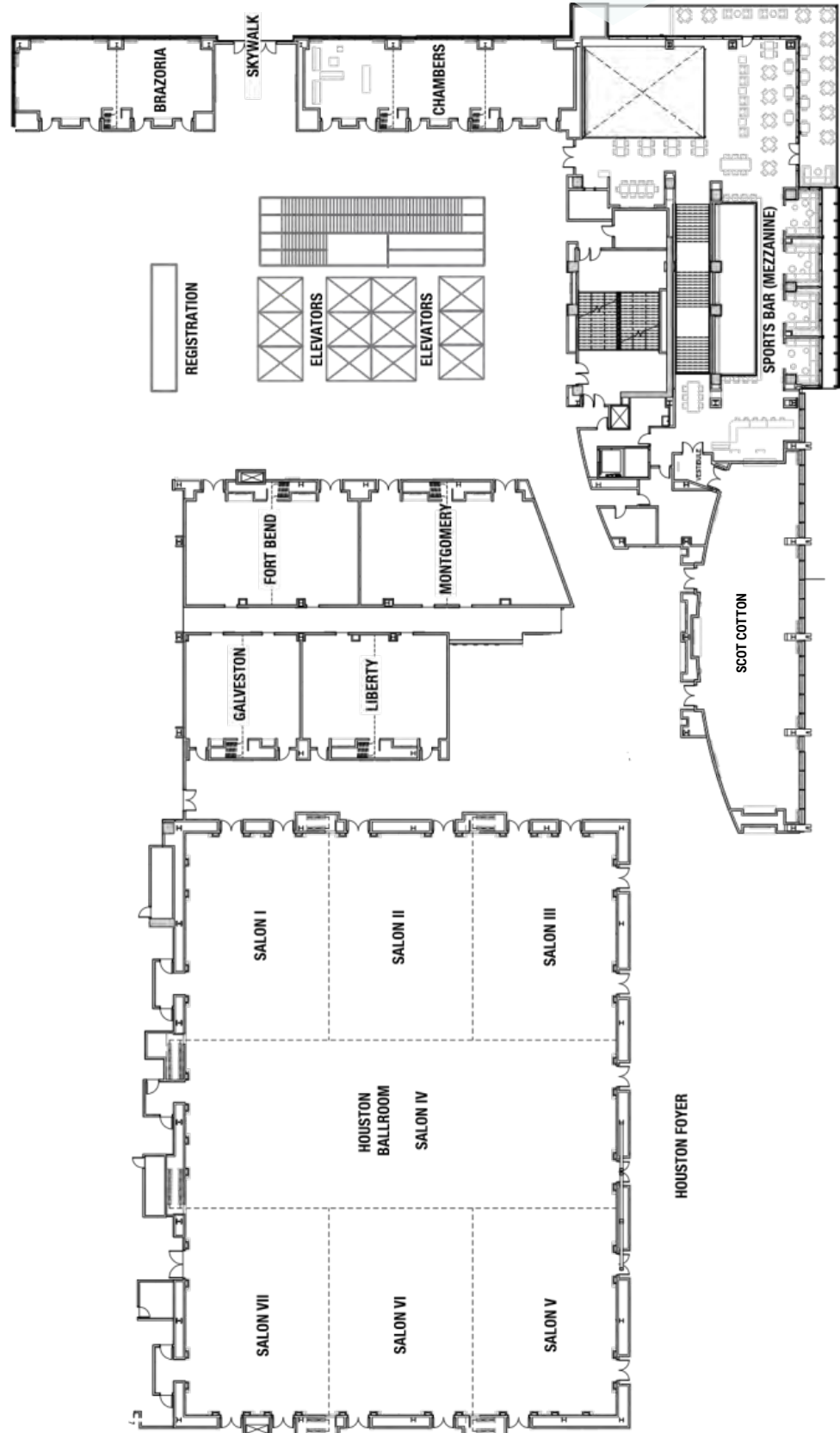
Luggage Check

IMAGE will not be providing a luggage check service. Should you need to store luggage on your departure date, please arrange with your hotel.

Hotel Maps

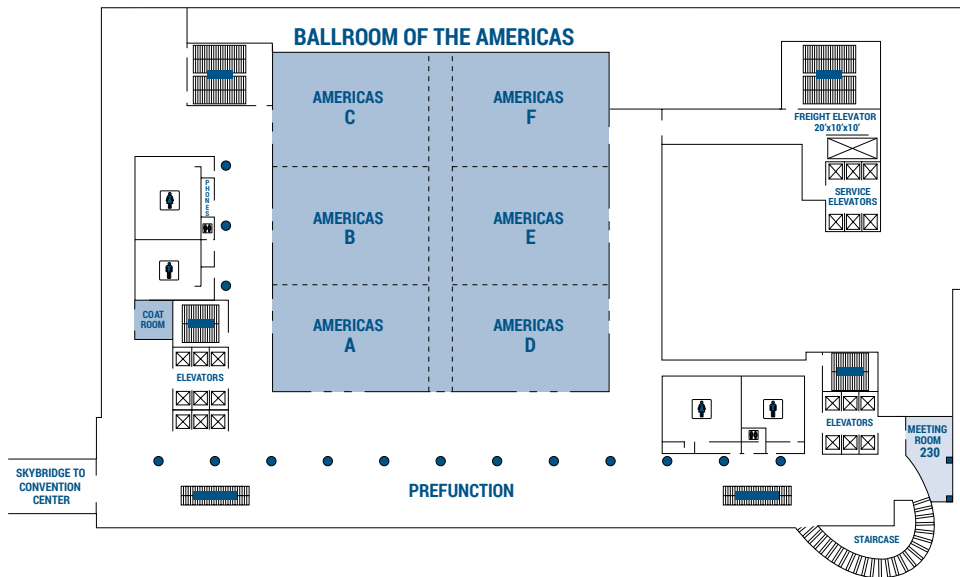
Marriott Marquis Houston

Level 2

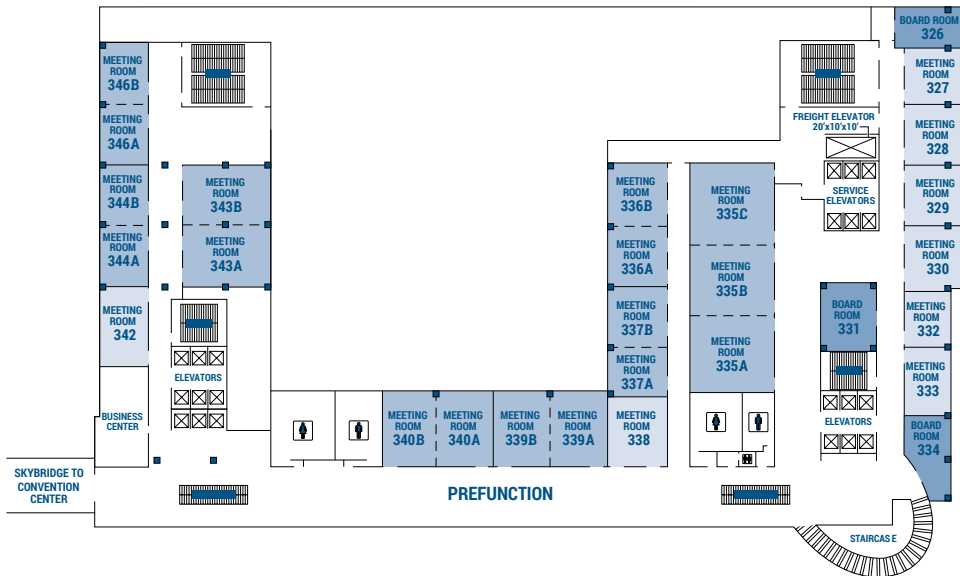


Hilton Americas – Houston

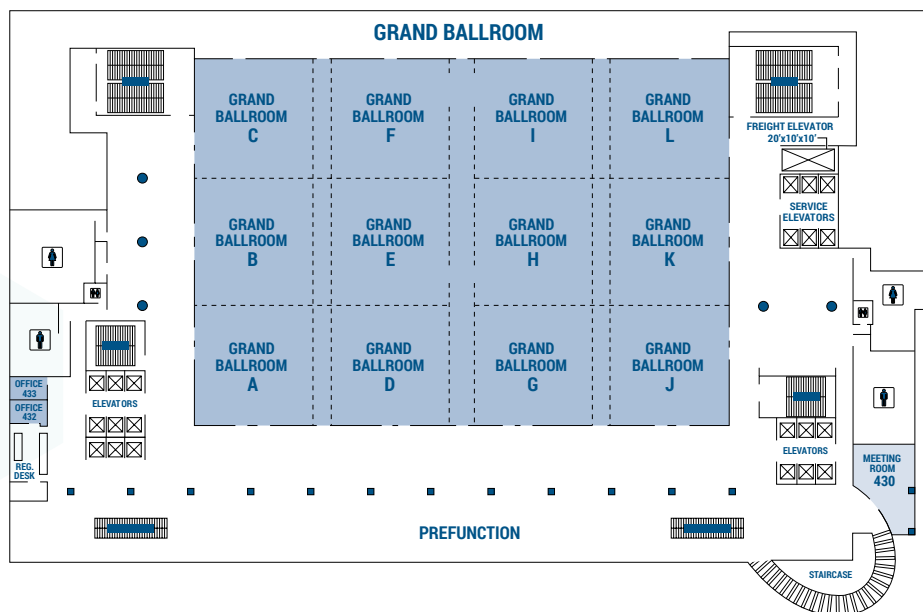
Level 2



Level 3



Level 4



Opening Session



Topic: Sustainability and our Geoscience Enterprise — Exploring our Grand Challenges
Speaker: Dr. Jonathan Arthur, Executive Director of the American Geosciences Institute (AGI)
Date: Monday, 28 August
Time: 4:30 p.m.–5:30 p.m.
Location: George R. Brown Convention Center, Ballroom A/B
Fee: Included with registration

You're invited to the opening of IMAGE '23, commencing with a warm welcome from Gretchen Gillis, IMAGE Oversight Committee Chair.

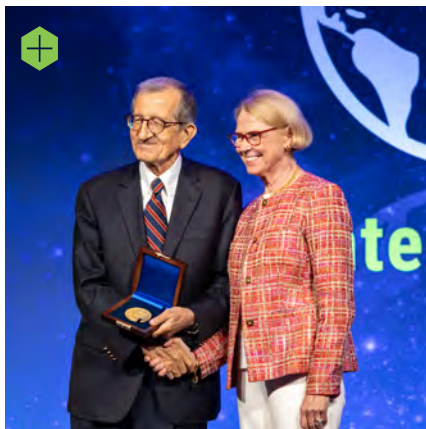
The two-part session, focused on The Future of Geoscience, will feature a Keynote Address from Dr. Jonathan Arthur, Executive Director of the American Geosciences Institute (AGI), followed by a panel discussion including SEG President Ken Tubman and AAPG President Claudia Hackbarth.

In his presentation, Arthur will illustrate the value of geoscience and geoscientists in addressing global challenges. He will emphasize the importance of sustaining professional relevance through the disciplines' organizations and societies, educational institutions (K-12 and higher education), workforce engagement, effective data analysis, and specialized expertise. The presentation will also address such areas as public awareness, policy/government affairs, and diversity, equity, and inclusion. The panel discussion with Presidents Tubman and Hackbarth will extend the conversation and reveal how SEG and AAPG leaders are adapting and dealing with these and other challenges.

This promises to be an engaging and insightful session that you won't want to miss.

We look forward to seeing you there!

Honors and Awards Ceremonies



SEG Honors and Awards Ceremony

Date: Tuesday, 29 August
Time: 6:30 p.m.–7:30 p.m.
Location: Hilton Americas — Houston, Grand Ballroom A/B

One of the most important functions of a professional society is honoring those that have made significant contributions to the profession and science.

You are invited to attend the SEG Honors and Awards Ceremony to celebrate the outstanding individuals who have worked hard to advance our science and benefit our Society.



AAPG Honors and Awards Ceremony

Date: Tuesday, 29 August
Time: 6:30 p.m.–7:30 p.m.
Location: Hilton Americas — Houston, Grand Ballroom J/K

You are cordially invited to attend the Honors and Awards program of AAPG, which provides a means for recognizing outstanding achievements and contributions by professional geologists and by other professionals who further the goals and objectives of our science, profession, and Association.

Special Features and Events

Discovery Thinking Forum

Topic: Integrating Geology and Geophysics: Lessons from Discoveries
Speakers: Multiple speakers presenting
Organizers: Charles Sternbach and Mike Forrest
Date: Wednesday, 30 August
Time: 1:20 p.m.–5:20 p.m.
Room: George R. Brown Convention Center, Room 360A
Fee: Included with registration

The 2023 "Discovery Thinking" Forum will be the twenty-eighth presentation of the AAPG Discovery Thinking initiative. This year we joined with SEG to emphasize exemplary case studies. Explorers need to integrate geology and geophysics to find and develop significant discoveries. Building on our fifteen-year tradition of 100+ discoveries, this Discovery Thinking Forum will feature four extraordinary discovery presentations.

IMAGE 2023 is pleased to present "**Integrating Geology and Geophysics: Lessons from Giant Global Discoveries.**" We celebrate the science and professionalism that bring about discoveries and the prosperity they bring. The organizers thank the presenters for stimulating Discovery Thinking in all of us!

- Andrea Cozzi, ENI, "70 years of creative exploration in the Eastern Mediterranean"
- Bill Armstrong, Armstrong Oil & Gas, Inc., "The North Slope of Alaska is home to the largest, onshore, conventional oil play in the world. A new play in a mature province, how could this be?"
- Bill Langin, Shell, "Discovery thinking in Namibia - The next generation of Deepwater projects"
- Derya Kilic Demirci, TPAO, "Recent discoveries in the Black Sea, Turkey"

View other special sessions by visiting the website or mobile app.



Michel T. Halbouty Lecture

Topic: Modern Sediment Transport as Analog for the Past and Future: From Houston to Antarctica
Speaker: Julia Wellner, University of Houston
Date: Wednesday, 30 August
Time: 5:25 p.m.–6:15 p.m.
Location: George R. Brown Convention Center, Room 360A
Fee: Included with registration



"The present is the key to the past" is a fundamental tenet of uniformitarianism and the basis for much of our understanding of Earth's history. However, the present is highly variable and includes sudden extreme events; additionally, the present is changing dramatically as we watch. This talk will use examples of recent sediments to consider how past conditions are recorded, as well as what they tell us about the future.

Hurricane Harvey made landfall in Texas six years ago, in August, 2017. In the Houston region, the storm brought more than 1.3 m (50 in) of rain over a four-day period and mobilized sediment in the region's fluvial and estuarine systems. Sediment moved across the city towards Galveston Bay at volumes significantly higher than the average annual amount delivered during either modern or Holocene times. This pulse of sediment, delivered all of a sudden, highlights the intermittent conditions that might be recorded in the rock record.

Thwaites Glacier, which is larger than Florida and contains the sea-level rise equivalent of 65 cm, is the opposite sedimentary environment in all possible ways: polar not subtropical, pristine not urban, unexplored rather than geology's backyard. Sediment cores collected in 2019 offer the first glimpse of the environmental conditions along this portion of Antarctica's ice margin. ²¹⁰Pb radiometric dating allows reconstruction at decadal time scales. The modern sedimentary facies extend back only a few decades, showing that ice retreat there was triggered in the middle of the last century.

SEG Distinguished Instructor Short Course (DISC)

Topic: Storage of Carbon Dioxide in Saline Aquifers – Building Confidence by Forecasting and Monitoring
Speaker: Philip S. Ringrose, Specialist in Reservoir Geoscience at Equinor and Adjunct Professor in CO₂ Storage at the Norwegian University of Science and Technology
Date: Monday, 28 August
Time: 8:00 a.m.–4:00 p.m.
Location: Marriott Marquis Houston, Chambers Room
Fee: \$560 SEG Nonmember
\$375 SEG Member
\$100 SEG Student



Join us for a course that delves into the science and technology behind CO₂ storage in deep saline aquifer formations. Gain insights from real-world industrial-scale projects as we analyze the factors that limit storage capacity, including flow dynamics, injectivity, pressure development, and geomechanics. Our goal is to review and clarify the key concepts of engineered CO₂ storage, dispelling common misunderstandings along the way. Discover methods for estimating storage capacity and evaluate the constraints for achieving desired volumes over project timelines. Plus, enhance your expertise in geophysical monitoring methods for building confidence in the technology and ensuring long-term storage integrity. Don't miss out on this educational and enlightening course!

Course Book

Course attendees receive the book as part of the registration fee. If you are unable to attend the DISC course but are interested in the book, it can be purchased separately in print or as an ebook at seg.org/shop.

SEG Geoscientists *without Borders*® Reception

Date: Tuesday, 29 August
Time: 5:00 p.m.–6:00 p.m.
Location: Marriott Marquis Houston
Scot Cotton

Join us for drinks and hors d'oeuvres to immerse yourself in the humanitarian aspect of the communities *GWB* is serving. Guests will have a chance to view short presentations and hear from the project leads, and participants, about how they are saving lives from geohazards and providing water access in countries such as Brazil, Nepal, Egypt, and Cameroon.

SEG Near-Surface Geophysics Technical Section Reception

Date: Tuesday, 29 August
Time: 7:00 p.m.–10:00 p.m.
Location: Marriott Marquis Houston
Scot Cotton

The Near-Surface Technical Section (NSTS) Reception will include presentation of the Harold Mooney Award to the 2023 recipient and introduction of the new leadership. NSTS attendees and students are invited to join us as we network and enjoy some light food and beverages.

Private Alumni Functions

Date: Tuesday, 29 August
Time: 5:30 p.m.–6:30 p.m.

- Stanford | Marriott Marquis Houston, Liberty
- University of Nebraska-Lincoln, The Rustic — Houston, 1836 Polk St.

Presidential Jam

Date: Tuesday, 29 August
Time: 8:30 p.m.–12:00 a.m.
Location: Hilton Americas — Houston
Grand Ballroom D/G

Put on your dancing shoes and get ready to dance the night away with an evening full of music. Join your friends and colleagues for a fun-filled night of dancing. Performances brought to you by members of both AAPG and SEG.

AAPG Foundation Forum

Date: Wednesday, 30 August
Time: 8:30 a.m.–10:00 a.m.
Location: Marriott Marquis Houston, Montgomery

Digital Wildcatters Live

Date: Wednesday, 30 August
Time: 10:30 a.m.–11:30 a.m. and
1:30 p.m.–2:30 p.m.
Location: Gathering Place

Be part of the live audience as the Digital Wildcatters record live from IMAGE '23.

All-Alumni Reception

Date: Wednesday, 30 August
Time: 5:30 p.m.–7:30 p.m.
Location: Marriott Marquis Houston
Houston Ballroom II-III

Participating colleges and universities include:

- Colorado School of Mines Department of Geophysics
- Geosciences at The University of Tulsa
- Rice University
- Texas A&M University Department of Geology & Geophysics
- University of Arkansas
- University of Colorado

Private Alumni Receptions

Date: Wednesday, 30 August
Time: 5:30 p.m.–7:30 p.m.
Location: Marriott Marquis Houston

- Oklahoma State University, Scot Cotton Room
- Texas A&M University Department of Geology & Geophysics, Montgomery
- University of Houston, Houston Ballroom I
- University of Oklahoma, Liberty
- University of Texas at Austin, Jackson School of Geosciences, Chapman & Kirby, 2118 Lamar St. 100

AAPG/SEG Latin America and Caribbean Region Meeting and Reception

Date: Wednesday, 30 August
Time: 7:00 p.m.–8:30 p.m.
Location: Hilton Americas — Houston, Ballroom of the Americas E/F

SEG and AAPG's Latin America and Caribbean Region invite members and supporters to join us at IMAGE for a joint networking reception. Enjoy light snacks and beverages, meet AAPG and SEG leadership team members, and learn about our upcoming events and educational programs.

Breakfast, Luncheons, and Receptions

All events are held in the George R. Brown Convention Center, unless otherwise noted.

Early Career Networking Reception (by invitation only)

Date: Monday, 28 August
Time: 6:30 p.m.–8:00 p.m.
Location: Level 2, Avenida Balcony
Fee: Included with registration

All-Convention Luncheon

Topic: The Role of Marine Archaeologists in Successful Offshore Projects
Speaker: Kimberly Faulk, Principal for Marine Archaeology at Geoscience Earth and Marine Services (GEMS), A Geosyntec Company
Date: Tuesday, 29 August
Time: 11:30 a.m.–1:15 p.m.
Location: Level 3, Ballroom B
Fee: \$75

SEG Geoscientists *without Borders*® Reception

Date: Tuesday, 29 August
Time: 5:00 p.m.–6:00 p.m.
Location: Marriott Marquis Houston, Scot Cotton
Fee: Included with registration

SEG Near-Surface Geophysics Technical Section Reception

Date: Tuesday, 29 August
Time: 7:00 p.m.–10:00 p.m.
Location: Marriott Marquis Houston, Scot Cotton Room
Fee: Included with registration

SEG Gravity and Magnetics Luncheon

Topic: The DART Mission: Humanity's First Planetary Defense Test Mission to Deflect an Asteroid
Speaker: Paul Abell, Chief Scientist for Small Body Exploration in the Astromaterials Research and Exploration Science Division, NASA Johnson Space Center
Date: Wednesday, 30 August
Time: 11:30 a.m.–1:00 p.m.
Location: Level 3, Room 320
Fee: \$70

AAPG Division of Professional Affairs (DPA) Luncheon

Topic: Sustainability, ESG, and Energy Transition: What's All the Hype?
Speaker: Allyson Anderson Book, Chief Sustainability Officer at Baker Hughes
Date: Wednesday, 30 August
Time: 11:30 a.m.–1:00 p.m.
Location: Level 3, Room 310
Fee: \$70

AAPG Women's Network Luncheon

Topic: Injection-induced Seismicity in the Permian Basin Region
Speaker: Katie M. Smye, Bureau of Economic Geology, University of Texas at Austin
Date: Wednesday, 30 August
Time: 11:30 a.m.–1:00 p.m.
Location: Level 3, Room 330
Fee: \$60 Professionals, \$30 Students

AAPG/SEG Latin America and Caribbean Region Meeting and Reception

Date: Wednesday, 30 August
Time: 7:00 p.m.–8:30 p.m.
Location: Ballroom of the Americas E/F Hilton Americas – Houston
Fee: Included with registration

Women's Networking Breakfast

(Co-organizers: AWG LoneStar, SEG WN, AAPG WN)

Date: Thursday, 31 August
Time: 7:00 a.m.–9:00 a.m.
Location: Phoenicia MKT, 1001 Austin St.
Fee: \$15 at the door

SEG Development and Production Luncheon

Topic: A Step Change in Obtaining Reservoir Properties from Seismic Data
Speaker: Ali Tura, Professor of Geophysics, Colorado School of Mines
Date: Thursday, 31 August
Time: 11:30 a.m.–1:00 p.m.
Location: Level 3, Room 320
Fee: \$70

AAPG Energy and Minerals Division (EMD) and AAPG Division of Environmental Geologists (DEG) Luncheon

Topic: Economic and Energy Market Trends and Outlook
Speaker: Jesse Thompson, Senior Business Economist, Federal Reserve Bank of Dallas, Houston Branch
Date: Thursday, 31 August
Time: 11:30 a.m.–1:00 p.m.
Location: Level 3, Room 310
Fee: \$70

AAPG Women's Network, AWG Lone Star, and Midwest Geosciences

Topic: The Geology of Beer: An In-Person Tasting Experience for Geoscientists and Beer Enthusiasts!
Date: Thursday, 31 August
Time: 3:00 p.m.–5:00 p.m.
Location: True Anomaly Brewing, 2012 Dallas St.
Fee: \$25
Register here: <https://www.eventbrite.com/e/geology-of-beer-registration-676960736787>

Panel Sessions

STRATEGIC PANELS

All Strategic Panels will be held in Ballroom C of the George R. Brown Convention Center.

Revitalizing the Energy Workforce Post-Pandemic and Across Generations

Date: Tuesday, 29 August

Time: 10:20 a.m.–11:35 a.m.

Description: Attracting and keeping the “best” employees is more complex post-pandemic. Hiring and human resources executives are increasingly looking to build a magnetic and rewarding environment where relationships can be built within and between inter-disciplinary, multi-generational teams. How can we recognize and meet the needs and challenges of this changing workforce?

Powering the Energy Landscape of Tomorrow: Successful Geoscience Collaboration with Diverse Teams

Date: Tuesday, 29 August

Time: 1:20 p.m.–2:35 p.m.

Description: Empirical studies of workplace dynamics have conclusively demonstrated that diverse teams are more productive, innovative, and add greater value than teams in which diversity is not prioritized. These results have led to broader industry recognition of the importance of diversity, equity, and inclusion (DEI) in the work environment.

This panel of experts discusses their DEI successes while examining areas of the energy sector in need of DEI improvement. Please join in on the discussion around DEI, successful geoscience collaboration, and the future of energy.

The Energy Transition: Modernizing Business Workflows and Optimizing the Data Supply Chain

Date: Tuesday, 29 August

Time: 3:40 p.m.–4:55 p.m.

Description: The need to track and analyze energy, emissions, and subsurface data has accelerated the adoption of new industry standards such as OSDU and OpenFootprint. This panel will discuss how operators and vendors are using technology, innovation, and analytics to modernize key business workflows and optimize the data supply chain.

Digital Geoscience and Operations: Case Studies from Onshore, Offshore, and Unconventionals

Date: Wednesday, 30 August

Time: 8:00 a.m.–9:15 a.m.

Description: This panel examines the latest trends in machine learning and cloud computing in developing different types of reservoirs, including conventional, offshore, and unconventional. The panel will also discuss how machine learning and cloud computing have been used for environmental cleanup purposes, including reducing flaring and identifying and plugging orphan wells.

STRATEGIC PANELS (continued)

The Energy Addition: Energy Industry Diversification Strategies

Date: Wednesday, 30 August

Time: 10:20 a.m.–11:35 a.m.

Description: With rising global interest in sustainable sources of energy, multiple forward-looking strategies have been developed to meet the growing demand for energy diversification. While many international companies have committed research dollars to investigating alternative energy sources and published goals for reducing carbon emissions, others have further invested in hydrocarbon development. Understanding the factors driving these varied approaches is a complicated subject. This panel delves into the rationales behind energy diversification strategies and the impact they'll have on the energy transition.

The Power of Partnership: Utilizing Higher Education Resources to Support Industry Innovation and Growth

Date: Wednesday, 30 August

Time: 1:20 p.m.–2:35 p.m.

Description: Complex problems in the energy/climate space require multi-dimensional teams of researchers directing a wide range of expertise toward advancements and solutions. This panel of distinguished academics, researchers, industry professionals, and fundraisers will dive deep into the impact of university-industry collaboration and how investment in higher education research and leverage of industry knowledge has helped to create dynamic learning and solution-centered environments that lead to real solutions for today's great energy challenges

The Future of Energy Investment: The Next Five Years

Date: Thursday, 31 August

Time: 10:20 a.m. – 11:35 a.m.

Description: Substantial emphasis on directing capital expenditure into new energy markets has caused significant change in investment practices in the energy sector. With companies exploring new strategies and mechanisms for market capture, this panel investigates how short-term energy investment is expected to evolve within the next five years. Experts from major financial institutions will describe current investor priorities and how they have changed the investment landscape.

ESG in 2023: Strategies for Building Positive Industry Messaging and Community Trust

Date: Thursday, 31 August

Time: 1:20 p.m.–2:35 p.m.

Description: The energy industry has long been challenged by public perception. Past impacts on human health, the environment, and public policy have negatively influenced the current reputation and image of operators, despite improved social metrics and corporate transparency. Building a positive association with the "energy industry brand" is an ongoing effort that requires both social awareness and an attitude of continuous improvement. Those improvement efforts often include extensive community engagement campaigns, both online and in-person. This panel showcases various community engagement programs and strategies operators use to build community trust.

View complete details for all panel sessions at imageevent.org



NEAR-SURFACE TECHNICAL PANELS

*All Near-Surface Technical Panels will be held in the Near-Surface Pavilion on the Exhibition Floor.
Please check imageevent.org for the most current information.*

Critical Minerals

Description: This panel is comprised of government representatives, academic and industry researchers to provide an overview of their recent efforts in the critical minerals space. All the panelists are working to stand up a sustainable domestic and international critical mineral supply chain. From geochemistry, to geophysics, to machine learning/AI, and policy, there are many exciting developments and opportunities regarding critical minerals. The panelists will contribute to a well-rounded interdisciplinary discussion and will address the benefits of identifying technology and partnership opportunities under their various programs.

Highway and Bridge Infrastructure

Description: This panel will discuss the trends and challenges with establishing near-surface geophysical methods into routine practices for US highway infrastructure projects and provide insight into the relationship between the Federal Highway Administration (FHWA) and other state and local highway authorities to successfully manage and improve our national highway system. The Federal Highway Administration has long championed the deployment of innovative technologies through programs like the A-GaME, which will also be discussed.

Marine Construction

Description: This panel will discuss the use of geophysics for marine reconstruction/development from windfarm siting, coastal protection and restoration to development and revitalization of ports and harbors.

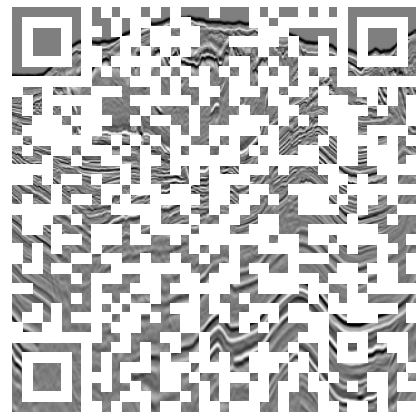
AEG-SEG Geophysics for Dam and Levee Siting and Monitoring

Description: This panel is designed to bring together a variety of geoscientists and engineers to share their knowledge and experience. We will discuss the future capabilities and needs that the geophysical imaging industry can provide to address critical problems related to dams and levees. Speakers from industry, government, and the private sector will discuss the commercial application of state-of-the-practice methods, advancements to state-of-the-art for imaging, and monitoring small and large structures. These speakers will host and present at this special session.

HOP OVER TO BOOTH 322

DUG's Multi-parameter FWI.
A revolution in imaging.

Scan to see for yourself.



Let's talk. Contact info@dug.com



NEAR-SURFACE TECHNICAL PANELS (continued)

Ask the Experts

Description: This panel is designed to have subject matter experts available to address student questions regarding the following topics: cryosphere/climate, data and computational geophysics, coastal geophysics, energy transition, and mineral exploration. The Ask the Experts panel was developed by the SEG Near-Surface Geophysics Technical Section Student Subcommittee. All students and IMAGE attendees are welcome.

Hands-on Field Experiences Make Better Geophysics Graduates: A Tribute to Louise Pellerin

Description: Hands on field experiences are vital to the effective education and training of undergraduate and graduate geophysics students. Panelists will discuss lessons learned from two established geophysics field camps that provide unique training opportunities for a diverse body of students. This panel will pay tribute to Louise Pellerin, a devoted near-surface geophysicist and advocate for student professional development through the field learning experience. All attendees and students are encouraged to attend.

Marine Vehicles

Description: This panel will discuss the various marine vehicle categories, and their roles, capabilities, and ability to enhance marine geophysical exploration and development, as well as their role for increased efficiency in the marine realm.

Orphaned and Abandoned Well Identification and Characterization Update

Description: This panel will provide an update from the 2022 panel on the Bipartisan Infrastructure Law (BIL) that included verbiage requesting the U.S. Department of Energy (DOE) collaborate with the Interstate Oil and Gas Compact Commission (IOGCC) to develop a Program focused around reducing the impact of undocumented orphaned wells. That will help communities reduce methane emissions and eliminate other environmental impacts and will help further the Administration's emissions reduction goals to cut methane emissions by 30% compared with 2020 levels by 2030.





Create tomorrow's energy technologies. Today.

Ensuring the sustainability, security, and equity of energy access means we must think big. We need global solutions that can be scaled and adopted quickly. SLB know-how and technology are helping to overcome industry's greatest challenges while transforming energy. Together, we create amazing technology that unlocks access to energy for the benefit of all.

Find us at
Booth #1217
Level 1 in between Hall D-E

Find out more at
slb.com



Copyright © 2023 SLB. All rights reserved. 22-SLB-154427B



Be sure to take a photo with GeoRex at Society Park and post to your social media accounts with #IMAGE23

See page 36 for more details.

SEG EVOLVE & Field Camps Joint Session

Wednesday, 30 August

George R. Brown Convention Center Room 332

SEG EVOLVE is a “hands-on,” mentor-guided, virtual internship student program that provides industry knowledge to prepare geoscientists for the exploration of energy resources while addressing environmental missions. The SEG Field Camp program supports students by providing critical funding for projects that offer real world training opportunities, beyond what can be taught in the classroom. You are invited to attend the oral presentations showcasing prospect development approaches for GOM (Vermillion, Matagorda Island, Eugene Island), Australia, & New Zealand and Geophysical Field Camp in Hungary and Low-Cost Geophysical Instrumentation for Groundwater Management in West Africa.

Time	Topic	Speakers
10:00 a.m.	Introduction to SEG EVOLVE	Jenny Thompson
10:10 a.m.	The value of SEG EVOLVE as a program	Ken Tubman
SEG EVOLVE Team Presentations		
10:30 a.m.	New Zealand	University of M'hamed Bougara, Algeria Alexandria University, Egypt
10:55 a.m.	Eugene Island	Pan African University, Nigeria Federal University of Technology, Akure, Nigeria
11:20 a.m.	Matagorda Island	University of Perugia, Italy University of Pisa, Italy
11:45 a.m.	Vermillion, Gulf of Mexico	AGH UST University of Science and Technology, Poland Instituto Superior Tecnico, Portugal
12:10 p.m.	LUNCH (Teams & Mentors only)	
1:10 p.m.	SAGE Field Camp Program	John Ferguson
2022 Field Camp Presentations		
1:35 p.m.	Geophysical Field Camp in Hungary 2022	Eötvös Loránd University SEG Student Chapter, Kolos Nemeth
2:00 p.m.	Field Camp Presentation	
SEG EVOLVE Team Presentations		
2:25 p.m.	Matagorda Island	Khalifa University, United Arab Emirates
2:50 p.m.	New Zealand	KAUST, Saudi Arabia
3:15 p.m.	BREAK	
SEG EVOLVE Team Presentations		
3:25 p.m.	Australia	IFP School, France
3:50 p.m.	Eugene Island	Universidad Nacional de San Juan, Argentina
4:15 p.m.	Matagorda Island	Academy of Scientific & Innovative Research (CSIR-NGRI), India Kurukshehra University, India
4:40 p.m.	Vermillion, Gulf of Mexico	Texas A&M Kingsville, USA University of New Mexico, USA
5:05 p.m.	Incorporating SEG EVOLVE Into Your University Open Discussion	University Advisors and SEG EVOLVE Committee

Student Events

Sunday, 27 August

SEG/Chevron Student Leadership Symposium (SLS)-Day 1
Hilton Americas — Houston, Grand Ballroom A/B/C
12:00 p.m.–5:00 p.m.

Monday, 28 August

SEG/Chevron Student Leadership Symposium (SLS)-Day 2
Hilton Americas — Houston, Grand Ballroom A/B/C
8:30 a.m.–3:30 p.m.

Early Career Networking Reception
(by invitation only)
George R. Brown Convention Center
Level 2, Avenida Balcony
6:30 p.m.–8:00 p.m.

Tuesday, 29 August

SEG Challenge Bowl World Finals
Marriott Marquis Houston, Houston Ballroom II-III
8:00 a.m.–10:00 a.m.

Early Career Speed Mentoring
Marriott Marquis Houston, Houston Ballroom V-VI
3:00 p.m.–5:00 p.m.

Wednesday, 30 August

SEG EVOLVE and Field Camps
George R. Brown Convention Center, Room 332
10:00 a.m.–5:30 p.m.

Thursday, 31 August

SEG Applied Sciences Educational Program (ASEP)
George R. Brown Convention Center
Room 332 and Exhibition
9:00 a.m.–1:00 p.m.

Committee Meetings

Sunday, 27 August

SEG Gravity & Magnetics Committee Meeting
Hilton Americas — Houston, Room 337
5:00p.m.–6:00 p.m.

Tuesday, 29 August

SEG Near-Surface Geophysics Technical Section Committee Meeting
Near-Surface Pavilion, Exhibit Hall, GRBCC
12:00 p.m.–1:00 p.m.

Wednesday, 30 August

American Geosciences Institute - Geoscience Development Roundtable Breakfast
Hilton Americas — Houston, Room 337
8:00 a.m.–12:00 p.m.

SEG Mining and Mineral Exploration Committee Meeting
Marriott Marquis Houston, Fort Bend
5:00 p.m.–6:30 p.m.

ICEG Meeting
Marriott Marquis Houston, Fort Bend
8:00 a.m.–9:00 a.m.

Thursday, 31 August

SEG CO₂ Research Sub-Committee Meeting
Marriott Marquis Houston, Scot Cotton
7:00 a.m.–7:45 a.m.

SEG Hydrogeophysics Committee Meeting
Near-Surface Pavilion, Exhibit Hall, GRBCC SEG
12:00 p.m.–1:00 p.m.

SEG Research Committee Meeting
Marriott Marquis Houston, Scot Cotton
5:00 p.m.–7:30 p.m.

SEG Development and Production Committee Meeting
Marriott Marquis Houston, Fort Bend
5:30 p.m.–6:30 p.m.

Field Trip

TITLE	LEADER(S)	DATE(S) / TIME(S)	FEES
FT2 Texas Coastal Processes – Brazos River Delta to Galveston Island (SEPM)	Dr. Erik Scott (Rice University & Vecta Oil & Gas)	Saturday, 26 August, 8:00 a.m.–6:00 p.m.	Professionals \$195



For the most up-to-date information visit imageevent.org



Bookstore

The combined AAPG/SEG Bookstore, located on the 3rd level near the technical sessions, will feature the latest titles and classics that should be on every bookshelf. Stop by to browse the books, meet with publications professionals, and network with one another.



EOG Resources is focused on being among the **lowest cost, highest return and lowest emissions producers**, playing a significant role in the long-term future of energy.

www.eogresources.com

Titanium Sponsor & Exclusive Cloud Partner of IMAGE 2023.

Catch AWS-led sessions at the Digital Pavilion on:



The power of data platforms



Generative AI in Energy



High-performance computing

Visit us at booth #337 ›

SEPM Activities at IMAGE

SEPM Research Group Meetings

SEPM Carbonate Research Group

Tuesday, 29 August
7:00 p.m.–10:00 p.m.

George R. Brown Convention Center, Room 381 B

SEPM Clastic Diagenesis Research Group

Tuesday, 29 August
7:00 p.m.–10:00 p.m.

George R. Brown Convention Center, Room 381 A

SEPM Micropaleontology Research Group

Tuesday, 29 August
7:00 p.m.–10:00 p.m.

George R. Brown Convention Center, Room 381 C

SEPM Field Trip and Short Courses

Be sure to check out the trip and courses offered for this meeting. Students should especially be aware of the Sequence Stratigraphy for Graduate Students sponsored by Chevron and the other SEPM courses that have some discounted student seats sponsored by multiple companies.

Visit [SEPM.org](https://www.sepm.org) for updates

Content Area Pavilions

Our new and improved exhibit floor showcases easy to find pavilions with the opportunity to explore the content you want to see and hear to help you do business right here at IMAGE.

Scan the QR codes for up-to-date and complete schedule information for each pavilion.

Digitalization Pavilion

Digitalization is not new, but the emergence of new technologies like 5G, Generative AI, and quantum computing have the potential to significantly change and enhance the way we work. Join us at the Digitalization Theater (sponsored by SambaNova and Geophysical Insights) and the Digitalization Pavilion (sponsored by AWS and Aramco) on the north end of the Exhibit Hall for three jam-packed days of panels and lightning talks covering the most pressing topics in Digitalization and what they mean for our industry. You won't want to miss it!



Near-Surface Pavilion

Located in the back right corner of the exhibition hall adjacent to the poster area, the Near-Surface Geophysics Pavilion will host eight panels, including a special panel dedicated to Louise Pellerin on how hands on field experiences make better geophysics graduates. The Near-Surface Geophysics Technical Section and Hydrogeophysics Subcommittee will hold their meeting in the pavilion. The pavilion will also host company and invited presentations. The pavilion is sponsored by Teledyne Marine for the second year in a row. Thank you, Teledyne! Additional activities are being planned. So, check the NS pavilion page for the most up to date content.



Carbon Management Pavilion

Join us for lively presentations and panel discussions on the hottest topics in carbon management. Find out what companies are planning, where opportunities are emerging, and what knowledge, skills, and experience are being repurposed for use in energy storage, CCUS, geothermal energy, carbon credits and carbon registries, reducing methane and CO₂ emissions and more. Come prepared to participate in discussions, meet new people, and learn about new technologies.

Global Energy Opportunities (GEO) Pavilion

The Global Energy Opportunities (GEO) Pavilion, located on the east side of the Exhibit Hall, is one of four dedicated pavilions at IMAGE '23. Anchored by the AAPG International Pavilion, the GEO Pavilion provides a worldwide showcase for NOCs, ministries, and government agencies to promote a broad spectrum of investment opportunities – in oil and gas, geothermal, mineral resources, hydrogen, renewable energy generation – and to share government strategies for moving toward a low-carbon economy. The GEO Pavilion also includes an International Theatre featuring detailed presentations by exhibitors.



Global Energy Opportunities Pavilion



The Global Energy Opportunities (GEO) Pavilion, located on the east side of the Exhibit Hall, is one of four dedicated pavilions at IMAGE '23. Anchored by the AAPG International Pavilion, the GEO Pavilion provides a worldwide showcase for NOCs, ministries, and government agencies to promote a broad spectrum of investment opportunities – in oil and gas, geothermal, mineral resources, hydrogen, renewable energy generation – and to share government strategies for moving toward a low-carbon economy. The GEO Pavilion also includes an International Theatre featuring detailed presentations by exhibitors.

Visiting the GEO Pavilion gives attendees the chance to review a host of diverse energy opportunities and to meet directly with country representatives who know the geology in detail. Expect to come away with heightened insight into current and future global trends.



BELIZE

Ministry of Natural Resources, Petroleum and Mining

"Oil & Gas Potential & Exploration Opportunities in Belize"



BOEM

Bureau of Ocean Energy Management

"Energy, Transition, and Sustainability: Making It All Work Together"



ENVOI

"Global Deals"



GHANA

Petroleum Commission

"Promoting Ghana's Available Opportunities"



GEOPARTNERS

"Review and Forecast: 10 years of African Discoveries"



INDIA

Directorate General of Hydrocarbons

"Hydrocarbon Potential of the Offshore Andaman and Mahanadi/Bengal Basins of India"



JAMAICA

Ministry of Science, Energy, Telecommunications and Transport

"Exploration Evolution of the Offshore Acreage in Jamaica"



MOROCCO

ONHYM

"Moroccan Oil and Gas Exploration Opportunities in the Spotlight"



MOZAMBIQUE

INP

"Investing in Mozambique – New Opportunities"



NOVA SCOTIA

Nova Scotia Department of Natural Resources and Renewables

"Call for Bids NS22-1: Research, Innovation, and Exploration Opportunities"



PERU

Petroperu

"Exploration Opportunities in Peru"



SENEGAL

Petrosen E&P

"New Investment Opportunities in Senegalese Oil and Gas"



SOUTH AFRICA

Petroleum Agency SA

"Petroleum Exploration and Production South Africa: An Overview of Onshore and Offshore E&P Activities and Opportunities"



SURINAME

Staatsoile

"New Opportunities in the Shallow Offshore of Suriname"



TRINIDAD & TOBAGO

MEEI

"Trinidad and Tobago Shallow Water Competitive Bidding Round 2023"



TUNISIA

ETAP

"Tunisian Exploration Opportunities"



URUGUAY

ANCAP

"Energy opportunities Offshore Uruguay"

U-Pitch New Technology Showcase

Tuesday, 29 August

10:00 a.m.	Sean Kimiagar, Enverus	Placed Well Analytics: Remaining Inventory Analysis in Minutes
10:15 a.m.	Jon McKenna, Microseismic Inc.	MicroThermal Energy: Quantifies fracture connectivity
10:30 a.m.	Mark Hamzat Erogbogbo, Texas Star Alliance	Who's investing in start-ups and new technologies? A Review
10:45 a.m.	Scott Mildren, Tech Limit Geomechanical Risk Tool	The Toolbox: Geomechanical risk, pore pressure and wellbore stability
11:00 a.m.	Kabirat Nasiru, Bioculture Energy	Ethical Bio-fuel Agricultural-based Energy
11:15 a.m.	Michael McCown, Energy Hire	Platform for jobseekers in upstream, midstream, and renewables
1:30 p.m.	Rush Selden, P.L.U.G. - Smart Pipeline Repair	PLUG is a 6th generation pipeline isolation tool to stop leaks
1:45 p.m.	Sashi Gunturu, Petrabytes -methane analytics	Methane and carbon monitoring (includes CCUS), with analytics
2:00 p.m.	Terry O'Sullivan, Transient High Gamma Ray THG	Rapidly boost production with innovative process
2:15 p.m.	Saptarshi Dasgupta, Chevron Technology Ventures	Invests in technological innovation from early concept to scale.
2:30 p.m.	Stephen Crews, Quest Integrity	Ultrasonic ILI tool high resolution downhole casing inspections
2:45 p.m.	Erjola Buzi, Dow Chemical	Technology scout for automation, sensors, improved operations
3:00 p.m.	Aaron Swanson, DWL Salt Consortium	Consortium to improve drilling, reservoir characterization with salt structures
3:15 p.m.	Andrea Crook, OptiSeis: Reduce seismic carbon footprint	We reduce land footprint and improving efficiency of seismic surveying
3:30 p.m.	Dale Larsen, New Well Tech: Cross-linked polymers	Geothermal, plus oil wells: boost production and refrac performance
3:45 p.m.	Erik Gregersen, Re Aqua Produced Water Purification	Brackish to fresh water solutions for ag and livestock purposes

Wednesday, 30 August

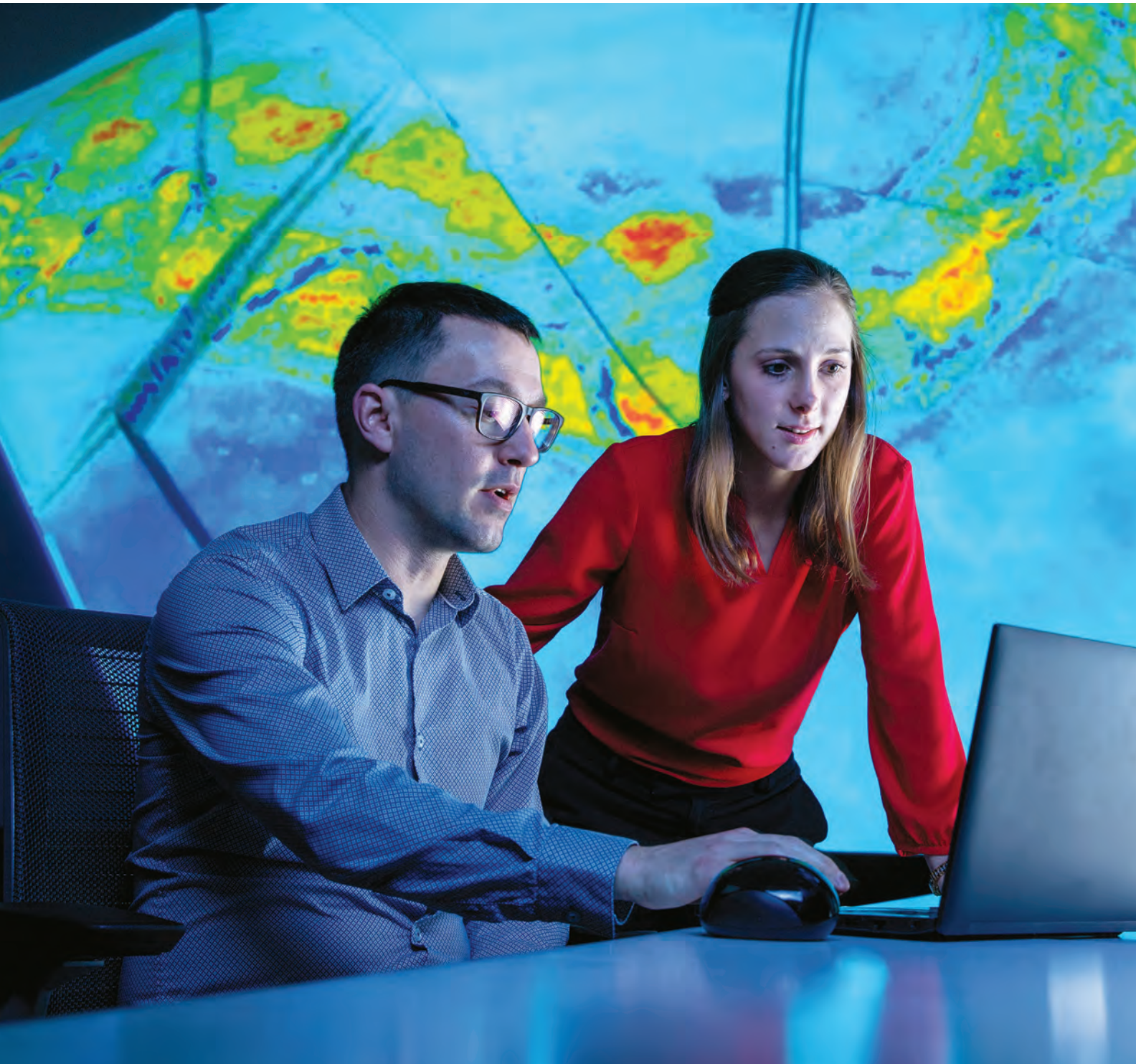
10:15 a.m.	Bob Barba, Triple R Energy Partners	Reduce refrac risk to operators reluctant to try organic shale refracs.
10:30 a.m.	Steve Adcock, Vector Ring, LLC	Industrial clamp for emergency of pressurized natural gas pipe
10:45 a.m.	Saptarshi Dasgupta, Chevron technology ventures	Invests in technological innovation from early concept to scale.
11:00 a.m.	Brent Smith, Seawater Technologies LLC	Fracturing with seawater in water-stressed countries
11:15 a.m.	Kristen Kelly, Sharp Reflections	
1:30 p.m.	Andrey Klimushin, Rock Flow Dynamics	Multi-domain workflow to optimize well spacing
1:45 p.m.	Zac Coplon & Andrew Muñoz, Blue Bison 4cast	4cast oil and gas evaluation tool
2:00 p.m.	Kimbra Davis, Orphan Wells Office / Dept of Interior	\$4.7 Billion program to plug orphaned wells
2:15 p.m.	Michael Goodman, Guardian P&A	Services for small operators and agencies for P&A and site restoration
2:30 p.m.	Dan Wrona, CarbonPath	Carbon registry and exchange
2:45 p.m.	Mileva Radonjic, OSU Orphan Well Consortium	Consortium to reduce emissions through effective plugging
3:00 p.m.	Marc Spieler, NVIDIA Inception Program	NVIDIA Inception is a free program designed to help startups evolve faster
3:30 p.m.	Amy Henry, Eunike Ventures	Eunike Ventures -hybrid energy accelerator
3:45 p.m.	Galen Dillewyn, NuTech Energy	East Texas, Finding what we have forgotten

Thursday, 31 August

10:00 a.m.	Tim Rynott, helium	Helium studies and prospects
10:15 a.m.	Jeremy Jordan	Midstream: Helium Aggregation and Commercialization
10:30 a.m.	Steve Tedesco, Running Foxes	Nemaha Ridge helium, hydrogen, natural gas
10:45 a.m.	Jeff Aldrich, Sproule	Sproule evaluations for hydrocarbons, helium, hydrogen, CO ₂ , lithium, more
11:00 a.m.	Justin Love, Blackbuck Resources	Investment in lithium, brine-mining, new energy properties
11:15 a.m.	Denis Potapov, DGP Capital	Middle market investment bank and financial advisory firm

Carbon capture's vital role in achieving society's climate goals.

Many climate experts agree, carbon capture and storage is a vital low-carbon technology to help society achieve its climate goals. At ExxonMobil, we have more than 30 years of experience capturing and storing CO₂ and have cumulatively captured more anthropogenic CO₂ than any other company. We are also working to provide solutions that can help customers in other industries reduce their greenhouse gas emissions, especially in higher-emitting sectors of the economy like manufacturing, transportation and power generation. *Learn more at [exxonmobil.com/ccs.com/ccs](https://www.exxonmobil.com/ccs.com/ccs).*



Postconvention Workshops

Finish off a productive week with 14 postconvention workshops featuring a wide range of technical topics.

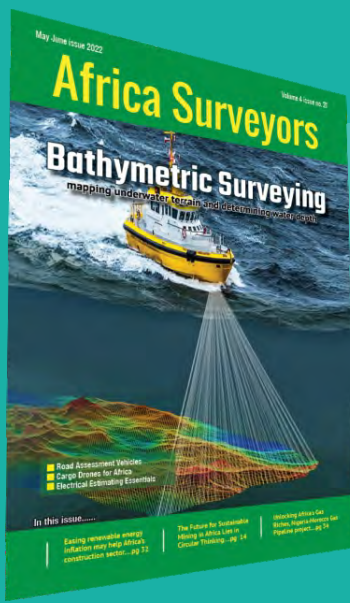
All postconvention workshops will be held Friday, 1 September. Workshop passes are available for \$145 for members, \$260 for nonmembers, \$45 for students, and \$65 for student nonmembers, and includes access to any or all postconvention workshops.

Please note that the number of seats available in each workshop is limited and offered on a first-come, first-served basis. If seats are available, movement between workshops will be permitted.

Please check the website or mobile app for co-organizers and speaker information.

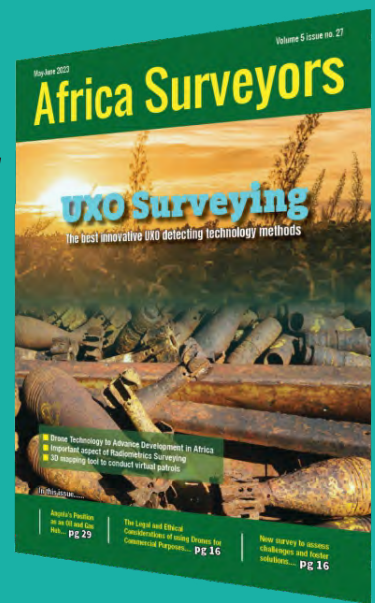
Friday, 1 September				
W#	WORKSHOP TITLE	LEAD ORGANIZER	ROOM#	TIME
W-1	Advances in the Ground and Airborne Induced Polarization Methods for Mineral Exploration	Michael Zhdanov	351A	8:30 a.m.–12:00 p.m.
W-2	Clastic Petrography and Diagenesis	Saju Menacherry	351A	1:30 p.m.–5:00 p.m.
W-3	Creating Value: Assessing Uncertainty and Resolving Seismic Ambiguity	Alison Malcolm Ed Biegert	371B	8:30 a.m.–5:00 p.m.
W-4	Distributed Fiber-Optic Sensing: Advances in Applications and ML-based Techniques	Vladimir Kazei Mauricio Araya	360A	8:30 a.m.–5:00 p.m.
W-5	Drone Geophysics Applied to Legacy Oil and Gas Wells and Pipelines	Ronald Bell	361A	1:30 p.m.–5:00 p.m.
W-6	Elastic and Multi-parameter FWI: What is Appropriate for Field Data Applications	Xukai Shen	351B	8:30 a.m.–12:00 p.m.
W-7	Energy Transition: How to Use Multidiscipline and Multiphysics to Power Energy Transition	Yi Shen Xiaolei Tu	362A	8:30 a.m.–5:00 p.m.
W-8	Harmonizing, Integrating, and Repurposing Subsurface Data	Sashi Gunturu	362B	1:30 p.m.–5:00 p.m.
W-9	Insights and Questions Related to CCUS and Reservoir Characterization Utility in Terms of Static Earth Model Description Based on Geophysical Methods	Nimisha Vedanti Eric Von Lunen	371A	8:30 a.m.–5:00 p.m.
W-10	Investigations into Sampling and Data Density: Promises and Learnings for Improving Resolution	Ray Abma	361A	8:30 a.m.–12:00 p.m.
W-11	Orphaned Wells: A New Opportunity for an Old Problem	Nick Gianoutsos	362B	8:30 a.m.–12:00 p.m.
W-12	Recent Challenges, Advances, and Future Applications of Machine Learning in the Geosciences	Wenyi Hu Haibin Di	370A	8:30 a.m.–5:00 p.m.
W-13	Role of Geosciences in Sustainable Land Development	Olga Nedorub	361B	8:30 a.m.–5:00 p.m.
W-14	What is the Future of Seismic Imaging?	Chandan Kumar Zhigang Zhang	351B	1:30 p.m.–5:00 p.m.





**BE BOLD or *Italic*
but NEVER regular**

**LET US
BOLD YOU
IN AFRICA**



Follow us on:



@AfricaSurveyors



@Africa Surveyors News



AFRICA SURVEYORS

ONLINE NEWS

Your surveying portal

Africa Surveyors is Africa's premier source of Surveying, Mapping and Geospatial news and an envoy of surveying products/service for the Construction, Maritime, Onshore & Offshore energy and exploration, Engineering, Oil and Gas, Agricultural and Mining sectors on new solution based trends and technology for the African market. We strive to be an advertising and knowledge content publication that provides the highest level of resources and credibility focused on our audience and advertisers as well as providing our clients with the best advertising services that gets results!

Contact us on:



+254 113 194 740



info@africasurveyorsonline.com



africasurveyorsonline.com



Short Courses

The following short courses are available during IMAGE. Please check ImageEvent.com for details regarding fees and course location. Information below is current as of 8 August 2023.

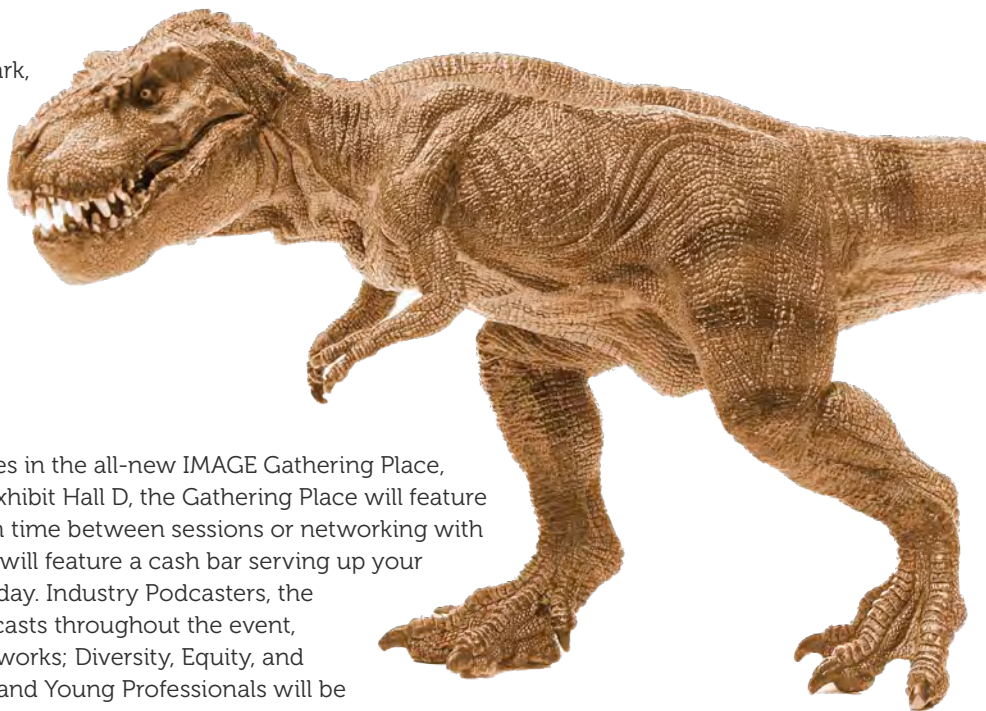
SC#	TITLE	INSTRUCTOR(S)
SC01	Rock-Fluid Systems in the Subsurface (AAPG)	Allegra Hosford Scheirer (Stanford University)
SC02	Exploration and Development Aspects of Geothermal Energy in Sedimentary Basins (AAPG Energy Minerals Division and Texas Bureau of Economic Geology)	Ken Wisian (TX-BEG), Malcolm Ross (Eavor Technologies), Nicole Wagoner (Great Basin Center for Geothermal Energy, NBMG, UNR), Jeremy Boak (Teverra), Benjamin Burke (Transitional Energy), Emilie Gentry (Teverra), Kevin McCarthy (Baker Hughes)
SC03	Advanced Sequence Stratigraphic Applications for Exploration and Development (SEPM)	Vitor Abreu (Consultant)
SC04	Advances in the Understanding and Interpretation of Carbonates (SEPM)	Ted Playton (Chevron) Paul (Mitch) Harris (University of Miami)
SC05	Introduction to Siliciclastic Depositional Environments in Outcrops, Cores, Seismic, and Well Logs (SEPM)	Howard Feldman (Colorado State University, Feldman Geosciences LLC)
SC09	Log Analysis and Formation Evaluation in Petroleum, Geothermal, and CCUS Reservoirs (AAPG Women's Network)	Katerina Yared (SM ENERGY)
SC10	How to Lead in Deepwater Exploration and Production (AAPG)	Jon Rotzien (Basin Dynamics), Cindy Yeilding (bp - retired; Board of Directors, Denbury Inc.; Board of Directors, Center for Houston's Future), Richard Sears (Stanford University), Lisa Goggin (Chevron), Ryan Weber (PetroStrat), Lori Fremin (Haltermann Carless)
SC11	Seismic Stratigraphy and Geomorphology for Graduate Students (SEPM)	Kenn Ehman, Andrea Lisi, Selen Esmeray-Senlet, Chadwick Holmes (Chevron)

Work Hard, Play Hard!

IMAGE isn't just about learning the latest science, insights, and innovations. It's also about networking with colleagues, creating memories with new relationships, and linking up with old friends. Get ready for new ways of connecting, collaborating, networking, and a little fun. Here's just a glimpse of what you can see and experience!

Society Park

Step off the exhibit floor and into Society Park, keep an eye out for dinosaurs amongst the foliage, and meet GeoRex. Saddle up for the ride of your life on the back of the animatronic dinosaur, have your picture taken, and get a free t-shirt to commemorate your experience. After your heart rate settles, visit the AAPG and SEG booths and see what's new with our associations!



Gathering Place

Come relax with your friends and colleagues in the all-new IMAGE Gathering Place, Booth #659. Located on the north end of Exhibit Hall D, the Gathering Place will feature a unique environment to enjoy some down time between sessions or networking with exhibitors. This new hot spot for attendees will feature a cash bar serving up your favorite drinks beginning at 11:30 am each day. Industry Podcasters, the Digital Wildcatters, will be hosting live podcasts throughout the event, and representatives from the Women's Networks; Diversity, Equity, and Inclusion committees; Veterans Networks; and Young Professionals will be present to answer questions and highlight new initiatives and activities.

Exhibition Plazas

Find yourself on the main aisle of the exhibition floor and kick back in the Exhibition Plazas. The exhibition hall will feature three central plazas (North, Center, and South), for casual lounging and networking. Make sure to stop by the center plaza and snap a photo with our I Love IMAGE photo op.

Art Show

Don't miss the IMAGE Art Show at the Gathering Place, Booth #659. The art show is a curated exhibition featuring geologic and scientifically themed art and sculptures by your fellow geologists, geophysicists, and engineers. The gallery celebrates the convergence of science and art with masterpieces that embody the beauty and wonder of our profession. Immerse yourself in this fusion of creativity and knowledge, and discover the profound connection between art and geoscience.

Bookstore

The combined AAPG/SEG Bookstore, located on the 3rd level near the technical sessions, will feature the latest titles and classics that should be on every bookshelf. Stop by to browse the books, meet with publications professionals, and network with one another.

Linking Leaders - Networking with a Purpose

Linking Leaders is an early career network program encouraging exhibitors to welcome early career professionals to network in their booth. Get a stamp at each participating company for a chance to win a prize. For more information, please visit the Early Career Networking Booth.



WELL SUPPORTED

RELIABLE

ACCURATE

RESPONSIVE

Booth# 1104



wildcattechnologies.com
(281) 540-3208



HAWK

Pyrolysis & TOC Instrument

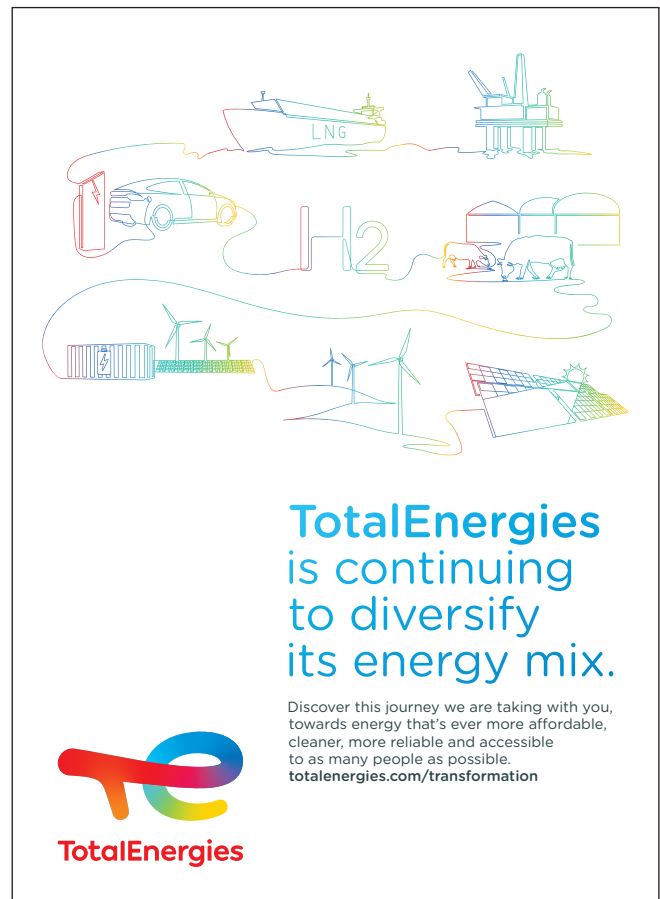
HAWK-PAM

Petroleum Assessment




Looking to
transform
the world of energy?

bp.com/careers



TotalEnergies
is continuing
to diversify
its energy mix.

Discover this journey we are taking with you,
towards energy that's ever more affordable,
cleaner, more reliable and accessible
to as many people as possible.
totalenergies.com/transformation



TotalEnergies

Technical Program Information

The technical program features more than 1100 quality presentations in 278 diverse sessions, including twenty-one special sessions. Geoscience professionals from all geoscience disciplines and all parts of the world are represented and will share their latest case histories, technological advancements, and research discoveries.

The technical program will begin Tuesday at 8:00 a.m. Oral sessions will run through Thursday at 4:50 p.m., and poster sessions will run through Thursday at 3:00 p.m. Immediately following, Postconvention workshops will take place in the technical session area all day Friday.

Special Sessions

These dedicated special sessions will be offered to complement the technical program:

- Future of Applied Geophysics: Applications
- Future of Applied Geophysics: Tools
- Recent Advances and the Road Ahead: Hot Topics in Geoscience 1
- Geoscientists *without* Borders®: Applied Geoscience for Humanitarian Need 1
- Recent Advances and the Road Ahead: Hot Topics in Geoscience 2
- Use of Seismic Data for Critical Mineral Exploration
- Geoscientists *without* Borders®: Applied Geoscience for Humanitarian Need 2
- SEPM Research Symposium: The Sedimentary Response to Changing Climate
- Petroleum Enrichment and the Tethys Geodynamic System 1
- Recent Advances in CCS Monitoring: Technology and Case Study
- Tectonics, Sedimentary Basins, and Petroleum Systems
- Petroleum Enrichment and the Tethys Geodynamic System 2
- SEG/AGU Hydrogeophysics
- Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 1
- Detecting and Characterizing Orphaned Oil and Gas Wells
- Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 2
- Long Term Geophysical Monitoring of Near Surface Processes
- Innovative Crossover Technologies between the Oil and Gas and Near-Surface and Mineral Sectors
- Cryogeophysics: Near-surface Geophysics in the Cryosphere
- Open-source Geospatial and Geophysical Software
- Dams and Levees

Meet and Greet

We will conduct a "Meet and Greet." Arrive at your session room at least 30 minutes early for the "Meet and Greet." This will allow you the opportunity to meet your session chairs and fellow speakers in advance.

Evaluate Presentations

Download the "IMAGE Events" mobile app to evaluate Technical Program presentations. Locate the presentation and select "Rate."

Poster Presenters

Poster presenters will be available at their designated poster station during the times outlined below. This will allow the opportunity for presenters and attendees to engage in discussion about their work outside their scheduled presentation time.

- Morning session presenters: 9:40 a.m.–10:20 a.m.
- Afternoon session presenters: 3:00 p.m.–3:40 p.m.

IMAGE '23 Technical Program Committee

Aiman Bakhorji

Co-Chair

Aria Abubakar

Co-Chair

Jenny Cole

Staff Liaison

Abdullah Al-Dhubaib
Adam Cawood
Adamu Suleiman
Adrian Flores-Orozco
Alicia Kahn
Ali Sloan
Amalia Spina
Anatoly Baumstein
Andrew C. Silver
Autumn Haagsma
Bin Wang
Blair Chan
Bo Zhang
Cengiz Esmersoy
Chao Wang
Charles Sternbach
Charlie Kerans
Chengbo Li
Conxita Taberner
Dan Hollis
Daniel Locci Lopez

Dan R. Glaser
David Lankford-Bravo
David Tang
Dengliang Gao
Dimitrios Ntarlagiannis
Elia Haddad
Ellen Reat Wersan
Erkan Ay
Fares Aboud
Fnu Suriamin
Franek Hasiuk
Ge Jin
Geoff Pettifer
Geoffrey Ellis
Gokay Bozkurt
Gordon Osterman
Haibin Di
Howard Harper
Javed Ismail
Jiefu Chen
Joël Le Calvez
Johannes Wendebourg
Julian Chenin
Junru Jiao
Justin Birdwell
Kenechukwu Nwakwesi
Keyu Liu

Kris Walker
Kurang Mehta
Laurie Whitesell
Lily Horne
Lin Liang
Lindsey Heagy
Mahmoud Alnazgah
Marco Vecoli
Maria Angela Capello
Marianne Rauch
Marie Macquet
Mengli Zhang
Meredith Faber
Michel Verliac
Miguel Bosch
Mihai Cimpoiasu
Mike Bingle-Davis
Mike Forrest
Mike Wilt
Mita Sengupta
Mohammad R. Mohanna
Mukarram Ahmed
Nadia Fantello
Nicoletta Buratti
Nizar Chemingui
Noah Dewar
Oliver C. Mullins

Partha Routh
Peter Flaig
Rajesh Goteti
Rob Forkner
Robert Tscherny
Ronny Hofmann
Rosanele Romero
Rudi Lubbe
Rui Zhang
Seogi Kang
Sergio Chávez-Pérez
Shangli Ou
Shengyu Wu
Sina Saneiyan
Tao Zhao
Tariq Alkhalifah
Ted Playton
Vanessa Simoes
Vladimir Kazei
Wenyi Hu
Xianhuai Zhu
Yaoguo Li
Yi Shen
Yi Xie
Yingcai Zheng
Zhigang Zhang
Zhiqiang Feng

**Luncheons are a great place
to network!**

**Purchase luncheon tickets
at the registration desk.**

Top Presentations at IMAGE '22

Oral Paper Award

Paper Title The generation of equivalent sources by 3D skeletonization of the migration density field
Byline James Brewster, Bell Geospace Inc.
Speaker James Brewster

Oral Paper Honorable Mention

Paper Title Geostatistical reservoir modeling using computational stratigraphy models on non-Cartesian grids
Byline Lewis Li, Tao Sun, and Julio De La Colina, Chevron Technical Center
Speaker Lewis Li

Top Poster Paper

Paper Title Hydraulic controls on turbidity channel and slope gullies lateral migration induced by contour currents
Byline Juan J. Fedele and Nicole Bayliss, ExxonMobil Upstream
Speaker Juan Jose Fedele

Poster Paper Honorable Mention

Paper Title Integrated subsurface characterization of a low-temperature geothermal test site, Gulf Coast, Texas
Byline Shuvajit Bhattacharya, Ken Wisian, and Alexandros Savvaadis, The University of Texas at Austin; Mike Eros, Sage Geosystems
Speaker Shuvajit Bhattacharya

Top Student Oral Paper

Paper Title Elastic-AdjointNet: A physics guided deep autoencoder to overcome cross talk effects in multiparameter full-waveform inversion
Byline Arnab Dhara and Mrinal Sen, University of Texas at Austin
Speaker Arnab Dhara

Student Oral Paper Honorable Mention

Paper Title Learned coupled inversion for carbon sequestration monitoring and forecasting with Fourier neural operators
Byline Ziyi Yin, Ali Siahkoohi, Mathias Louboutin, and Felix J. Herrmann, Georgia Institute of Technology
Speaker Ziyi Yin

Top Student Poster Paper

Paper Title Net to gross changes defining compound clinoforms in outcrop – The Morne L'Enfer Formation, Trinidad
Byline Ariana Osman and Ryan Ramsook, The University of the West Indies; and Ron Steel, The University of Texas at Austin
Speaker Ariana Osman

Student Poster Paper Award of Merit

Paper Title Bayesian RockAVO: Direct petrophysical inversion with hierarchical conditional GANs
Byline Miguel Corrales, Muhammad Izzatullah, Matteo Ravasi, and Hussein Hoteit, King Abdullah University of Science and Technology (KAUST)
Speaker Miguel Angel Corrales

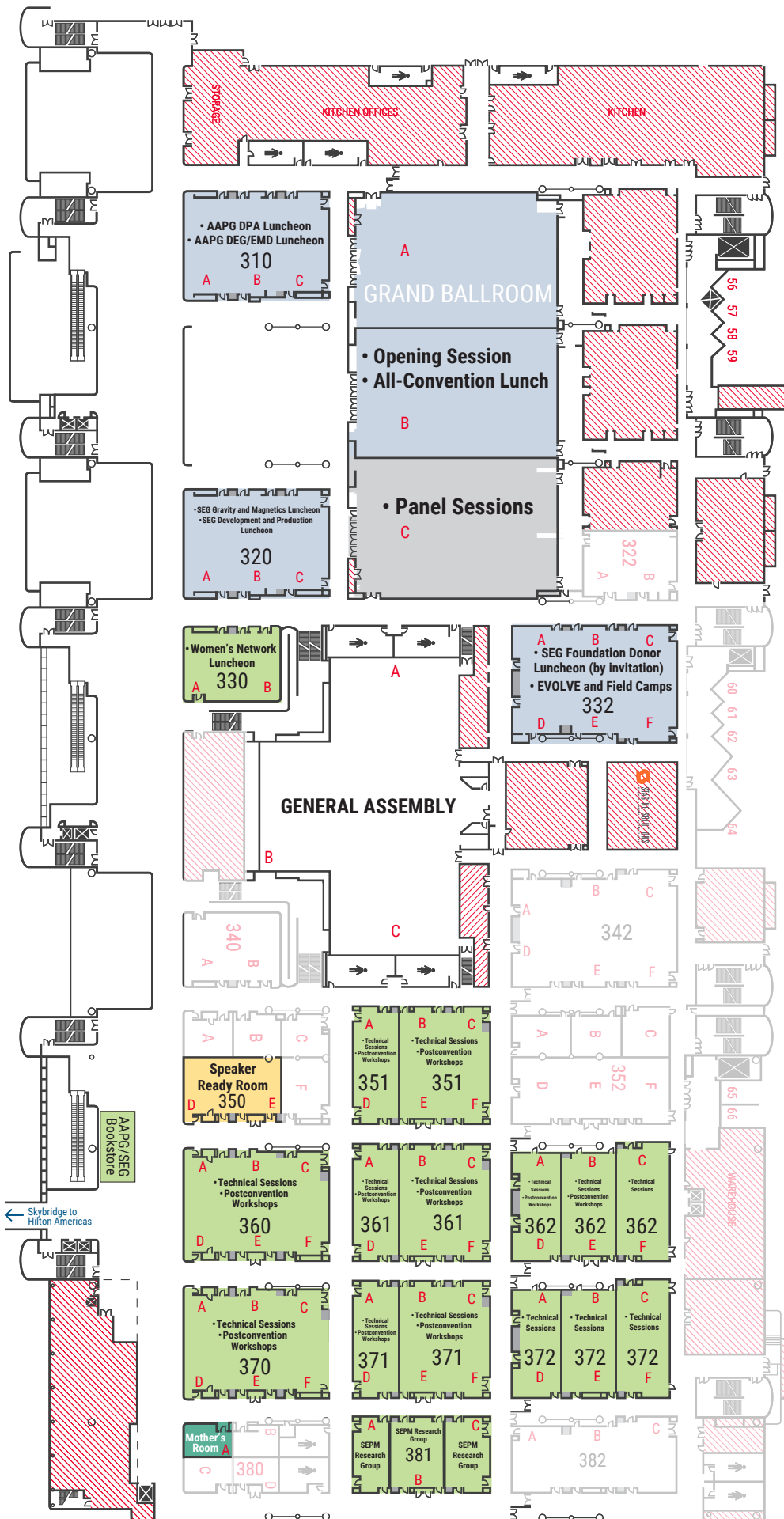
Visit the
SEG
Online Store

Find the perfect gifts for SEG fans in your life – including you – at the **SEG Online Store**.

Shirts, hats, travel mugs, water bottles, and more with the SEG logo are now available to purchase online.

Scan this QR code to visit the store

Technical Program Floor Map



Technical Program Grid

Oral Sessions

Room #	Tuesday, 29 August				Wednesday,	
	8:00 a.m.–9:40 a.m.	10:20 a.m.–12:00 p.m.	1:20 p.m.–3:00 p.m.	3:40 p.m.–5:20 p.m.	8:00 a.m.–9:40 a.m.	10:20 a.m.–12:00 p.m.
351A	NS 1: Imaging, Inversion, and Machine Learning in Near Surface Geophysics 1	NS 2: Near Surface Geophysics for Monitoring and Remediation	NS 3: Imaging, Inversion, and Machine Learning in Near Surface Geophysics 3	NS 4: Seismic Methods in Near Surface Geophysics	NS 5: Urban, Geotechnical, and Archeological Applications	NS 6: Dams, Levees, Coastal, and Cryosphere Geophysics
351B	MLDA 1: Full-waveform Inversion and Velocity Model Building 1	MLDA 2: Physics-Informed Neural Networks and Fourier Neural Operators	MLDA 3: Uncertainty Quantification	MLDA 4: Seismic Processing and Imaging 1	MLDA 5: Low Carbon Solution	MLDA 6: Seismic Interpretation 1
360A	SS 1: Future of Applied Geophysics: Applications	SS 2: Future of Applied Geophysics: Tools	SS 3: Recent Advances and the Road Ahead: Hot Topics in Geoscience 1	SS 5: Recent Advances and the Road Ahead: Hot Topics in Geoscience 2	SS 9: Petroleum Enrichment and the Tethys Geodynamic System 1	SS 12: Petroleum Enrichment and the Tethys Geodynamic System 2
361A	ENEC 1: Best Practices in Exploration Discoveries 1	ENEC 2: New Trends and Emerging Exploration Concepts 1	ENEC 3: The Power of Integration: Turning Challenges into Opportunities	SS 6: Use of Seismic Data for Critical Mineral Exploration	SS 10: Recent Advances in CCS Monitoring: Technology and Case Study	SILIC 1: Deepwater Sedimentary Systems 1
361B	UNCON 1: Basin and Play-scale Characterization 1	UNCON 2: Shale and Tight Reservoir Characterization 1	UNCON 3: Applied Geosciences for Shale and Tight Reservoirs 1	UNCON 4: Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 1	UNCON 5: Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 1	CO2 1: Developments and Lessons Learned
362A	INT 1: Intelligent Reservoir Property Prediction	INT 2: Intelligent Seismic Horizon Interpretation	INT 3: Structural Interpretation	INT 4: Sedimentary Interpretation	INT 5: Resolution	INT 6: Attribute
362B	BH 1: VSP and Crosswell	BH 2: Petrophysics	BH 3: Geomechanics and Geophysics	BH 4: Near-wellbore Imaging and Structural Modeling	MME 1: Mineral Exploration: Geophysics 1	MME 2: Mineral Exploration/ Development: Applied Geoscience
362C	SUS 1: Rock Stars of SDGs	SUS 2: Global Water Crisis	SS 4: Geoscientists <i>without Borders</i> ®: Applied Geoscience for Humanitarian Need 1	SS 7: Geoscientists <i>without Borders</i> ®: Applied Geoscience for Humanitarian Need 2	SS 11: Tectonics, Sedimentary Basins, and Petroleum Systems	NEF 1: Advancements in Subsurface Geothermal Resource Development
370A	TL 1: Advances and Case Studies	TL 2: Quantitative Analysis and Inversion	FWI 1: Case Studies 1	FWI 2: Case Studies 2	FWI 3: Cycle Skipping	FWI 4: Elastic and Multiparameter
371A	CEMS 1: Advances in Permian Basin Understanding 1	CEMS 2: Carbonate Source Rocks and Unconventional Systems	CEMS 3: Controls on Carbonate Depositional Systems	CEMS 4: Diagenesis and Pore Systems in Carbonate Reservoirs	CEMS 5: Technologies and Methods in Carbonate Reservoir Characterization 1	CEMS 6: Carbonate Insights from Modern and Outcrop Analogs
371B	SP 1: Migration Algorithms 1	SP 2: Imaging Case Study	SP 3: Elastic and Diffraction Imaging	SP 4: Least-squares Imaging and Q-migration	SP 5: Advanced Velocity Model Building Techniques 1	SP 6: Velocity Model Building and Application
372A	SMT 1: Theoretical Developments in Seismic Modeling and Wave Phenomena 1	SMT 2: Theoretical Developments in Seismic Modeling and Wave Phenomena 2	SMT 3: Theoretical Developments in Seismic Modeling and Wave Phenomena 3	SMT 4: Theoretical Developments in Seismic Modeling and Wave Phenomena 4	BMPS 1: Integrated Workflows in Basin Modeling	BMPS 2: Seal and Pore Pressure Risk Assessment
372B	GM 1: Inversion	GM 2: Applications	EMP 1: EM Methods 1	EMP 2: EM Methods 2	IPS 1: Mechanisms	IPS 2: Induced Seismicity in Midland, Texas
372C	INTD 1: Joint Inversion and Quantum Computing	INTD 2: Pressure Estimation and Deep Integrations	INTD 3: Data Across Disciplines	SS 8: SEPM Research Symposium: The Sedimentary Response to Changing Climate	RP 1: Dispersion and Attenuation	RP 2: Fractures and Anisotropy

Color Key

Color	Category
Orange	Geology
Green	Geophysics
Blue	Integrated (Geology and Geophysics)
Yellow	Special Sessions

30 August		Thursday, 31 August			
1:20 p.m.–3:00 p.m.	3:40 p.m.–5:20 p.m.	8:00 a.m.–9:40 a.m.	10:20 a.m.–12:00 p.m.	1:20 p.m.–3:00 p.m.	3:10 p.m.–4:50 p.m.
SS 13: SEG/AGU Hydrogeophysics	SS 15: Detecting and Characterizing Orphaned Oil and Gas Wells	SS 17: Long Term Geophysical Monitoring of Near Surface Processes	SS 18: Innovative Crossover Technologies between the Oil and Gas and Near-Surface and Mineral Sectors	SS 19: Cryogeophysics: Near-surface Geophysics in the Cryosphere	SS 21: Dams and Levees
MLDA 7: Borehole Applications	MLDA 8: Petrophysical Analytics	MLDA 9: Inversion and Property Estimation 2	MLDA 10: Reservoir Modeling 2	MLDA 11: Reservoir Modeling 3	MLDA 12: Generative Models
SS 14: Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 1	SS 16: Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 2	SP 9: Multiple Removal Techniques 2	SP 11: Wavefield Separation and Deconvolution	AQC 4: Compressive Sensing and Novel Methods	AQC 5: Ocean Bottom Nodes
SILIC 2: Deepwater Sedimentary Systems 3	SILIC 3: Advances in Siliciclastic Systems Modeling and Prediction	SILIC 4: Applied Chemostratigraphy, Biostratigraphy and Provenance Studies	SILIC 5: Reservoir Characterization of Siliciclastic Systems 2	SILIC 6: Source to Sink: Basin Analysis and Tectono-Stratigraphic Interactions	SILIC 7: Shallow Marine Sedimentary Systems 3
CO2 2: Modeling and Simulation	CO2 3: Regional Evaluations and Site Characterizations	CO2 4: Monitoring 3	CO2 5: Monitoring 4	CO2 6: Modeling and Simulation: Machine Learning in CCS 1	CO2 7: Modeling and Simulation: Machine Learning in CCS 2
INT 7: Case Study: Sand Body	INT 8: Case Study: Faults and Fractures	INT 9: Interpretation and Inversion 1	INT 10: Interpretation and Inversion 2	INT 11: Integrated Interpretation	INT 12: Stratigraphic Mapping
MME 3: Mineral Exploration: Geophysical Case Studies 1	MME 4: Mineral Exploration: Geophysical Case Studies 2	HPG 1: History of Petroleum Geology	GCHEM 1: Geochemistry and Petroleum Systems	GCHEM 2: Fluid Geochemistry	GCHEM 3: Geochemistry of Unconventionals
NEF 2: Hydrogen: Geologic Resources and Subsurface Storage	NEF 3: Critical Minerals and Extraterrestrial Resources Research	STGM 1: Structural Interpretation, Geomechanical Modeling, and Geophysics	STGM 2: Natural and Induced Fractures, and Fluid Flow	STGM 3: Fault and Natural Fracture Characterization	STGM 4: Salt Deposition, Diapirism, and Deformation
FWI 5: Land, Marine Streamer, and OBN	FWI 6: Reflection	FWI 7: New Advances	FWI 8: Theory and Methods 1	FWI 9: Machine Learning 2	FWI 10: Theory and Methods 2
AAS 1: AVO Inversion	AAS 2: Fracture Properties Estimation	AAS 3: Anisotropy	AAS 4: Reservoir Property Estimation	AAS 5: Novel Technologies	AAS 6: Case Studies
SP 7: Machine Learning Denoise	SP 8: Machine Learning Event Detection	SP 10: Seismic Data Interpolation and Regularization 2	SP 12: Noise Removal 2	SP 13: Deblending and Denoise	SP 14: Novel Solutions and Applications
BMPS 3: Petroleum Systems Case Studies 2	RC 1: Fracture Systems and Dynamic Modeling	RC 2: Seismic Inversion Methods	RC 3: Methods and Case Studies 2	RC 4: Methods and Case Studies 3	RC 5: Case Studies
IPS 3: Novel Methods	AQC 1: Marine Acquisition	AQC 2: Survey Design and Optimization	AQC 3: CCS and Marine Vibrators	SS 20: Open-Source Software for Geospatial Data Manipulation and Geophysical Data Processing and Inversion	PBA 1: Microfossils in Hydrocarbon Exploration: Case Studies
RP 3: Pore Scale Effects	RP 4: Properties of Sandstones	DAS 1: Case Study: Offshore	DAS 2: Seismic Analysis and Inversion	DAS 3: Low-frequency DAS and Strain Sensing	DAS 4: New Methods and Applications

Technical Program Grid

Poster Sessions

Station	Tuesday, 29 August				
	10:20 a.m.–12:00 p.m.	10:20 a.m.–12:00 p.m.	1:20 p.m.–3:00 p.m.	3:40 p.m.–5:20 p.m.	10:20 a.m.–12:00 p.m.
ID	A, B, C, D	E, F, G, H	A, B, C, D	E, F, G, H	A, B, C, D
1	STUD P1: Student Session 1	AAS P1: Prestack and Azimuthal Inversion	AAS P2: Compressional and Shear Waves	AAS P3: Facies and Fluids	NS P2: Climate, Coastal, and Environmental Geophysics
2	RP P1: Experimental Studies	NS P1: Imaging, Inversion, and Machine Learning in Near Surface Geophysics 2	AQC P1: OBN Design and Deployment	AQC P2: Land Acquisition	RP P2: Property Predictions
3	STUD P2: Student Session 2	CO2 P1: Site Characterizations and Case Studies 1	CO2 P2: Site Characterizations and Case Studies 2	CO2 P3: Monitoring 1	CO2 P4: Monitoring 2
4	STGM P1: Contractional Tectonics	STGM P2: Extensional Tectonics and Salt-related Systems	BMPS P1: Petroleum Systems Case Studies 1	BMPS P2: Quantitative Approaches for Validating and Constraining Basin Models	STGM P3: Faults, Fractures, and Fluids 1
5	STUD P3: Student Session 3	FWI P1: Machine Learning 1	FWI P2: Applications 1	FWI P3: Theory	FWI P4: Applications 2
6	SP P1: Multiple Removal Techniques 1	SP P2: Seismic Data Interpolation and Regularization 1	SP P3: Denoise and Deblend	SP P4: Noise Removal 1	SP P5: Advanced Velocity Model Building Techniques 2
7	STUD P4: Student Session 4	GCHEM P1: Geochemical Methods and Tools 1	GCHEM P2: Geochemical Methods and Tools 2	INTD P1: Reservoir Modeling and Drilling Decision	INTD P2: Data Integration in Exploration and Production
8	INT P1: Case Study: Seismic Sequence and Facies Analysis	INT P2: Case Study: Igneous Intrusion	INT P3: AI Based Seismic Interpretation Workflows 1	INT P4: AI Based Seismic Interpretation Workflows 2	INT P5: Seismic Facies Analysis: Inversion
9	STUD P5: Student Session 5	MLDA P1: Inversion and Property Estimation 1	MLDA P2: Reservoir Modeling 1	MLDA P3: Novel Applications 1	NEF P1: Geothermal and Hydrogen Resources
10	STUD P6: Student Session 6	RC P1: Methods 1	RC P2: Methods 2	RC P3: Methods 3	RC P4: Methods and Case Studies 1

KEY TO TOPIC AREAS

AAS.....Anisotropy, AVO, and Seismic Inversion
 ACQ.....Acquisition
 BH.....Borehole
 BMPS.....Basin Modeling and Petroleum Systems
 CEMS.....Carbonates, Evaporites, and Mixed Systems
 CO₂.....Low Carbon Solutions/CCS
 DAS.....Distributed Acoustic Sensing
 EMP.....EM and Potential Field
 ENEC.....Emerging New Exploration Concepts: Challenges and Opportunities
 FWI.....Full-Waveform Inversion
 GCHEM.....Geochemistry
 GM.....Gravity and Magnetics

HPG.....History of Petroleum Geoscience
 INT.....Geological and Geophysical Interpretation
 INTD.....Deep Integration of Data and Disciplines
 IPS.....Induced and Passive Seismic
 MLDA.....Machine Learning and Data Analytics: Theory and Special Applications
 MME.....Mining and Mineral Exploration
 NEF.....New Energy Frontiers, Critical Minerals, Planetary Geoscience
 NS.....Near Surface
 PBAA.....Paleontology and Biostratigraphy Advances and Application



For the most up-to-date information
visit imageevent.org



Wednesday, 30 August			Thursday, 31 August		
10:20 a.m.–12:00 p.m.	1:20 p.m.–3:00 p.m.	3:40 p.m.–5:20 p.m.	10:20 a.m.–12:00 p.m.	10:20 a.m.–12:00 p.m.	1:20 p.m.–3:00 p.m.
E, F, G, H	A, B, C, D	E, F, G, H	A, B, C, D	E, F, G, H	A, B, C, D
AAS P4: Inversion	AAS P5: New Technologies and Applications 1	AAS P6: New Technologies and Applications 2	NS P3: Urban, Geotechnical and Archeological Geophysics	NS P4: Seismic for Near Surface Geophysics	RP P4: Pore Structure Effects
AQC P3: Compressive Sensing and Signal Processing	AQC P4: Vibroseis Operation and Case Study	IPS P1: Detection Methods	IPS P2: Observation	SMT P1: Theoretical Developments in Seismic Modeling and Wave Phenomena 5	SMT P2: Theoretical Developments in Seismic Modeling and Wave Phenomena 6
BH P1: Borehole Geophysics for Carbon Storage	BH P2: Machine Learning for Wellbore Applications	ENEC P1: Best Practices in Exploration Discoveries 2	ENEC P2: New Trends and Emerging Exploration Concepts 2	TL P1: Feasibility, Processing and Imaging of 4D Seismic	TL P2: Improvements in Time-lapse Analysis
CEMS P1: Characterization of Conventional Carbonate Reservoirs	CEMS P2: Faults, Fractures, and Karst in Carbonate Reservoirs	CEMS P3: Advances in Permian Basin Understanding 2	STGM P4: Faults, Fractures, and Fluids 2	CEMS P4: Technologies and Methods in Carbonate Reservoir Characterization 2	CEMS P5: Utilization of Core in Carbonate Reservoir Characterization
DAS P1: Case Study: Onshore	DAS P2: Machine Learning Applications 1	DAS P3: Machine Learning Applications 2	RP P3: Reservoir Characterization	EMP P1: EM Methods 3	GM P1: Potential Field Applications
SP P6: Machine Learning Applications for Seismic Processing	SP P7: Least-squares Migration and Q-migration	SP P8: Elastic, Diffraction, and Marchenko Imaging	SP P9: Migration Algorithms 2	SP P10: Imaging Case History	SP P11: Emerging Technologies: Case Studies and Advances
UNCON P1: Basin and Play-scale Characterization 2	UNCON P2: Shale and Tight Reservoir Characterization 2	UNCON P3: Applied Geosciences for Shale and Tight Reservoirs 2	SUS P1: Earth Science in Action	UNCON P4: Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 2	UNCON P5: Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 2
INT P6: Seismic Facies Analysis: Modeling	INT P7: Inversion Methods	INT P8: Interpretation Methods	INT P9: Quantitative Interpretation	INT P10: Reservoir Characterization	INT P11: Case Study: Structural Modeling
MLDA P4: Full-waveform Inversion and Velocity Model Building 2	MLDA P5: Seismic Interpretation 2	MLDA P6: Seismic Processing and Imaging 2	MLDA P7: Novel Applications 2	MLDA P8: Seismic Processing and Imaging 3	MLDA P9: Petrophysical Analytics and Borehole Applications
SILIC P1: Deepwater Sedimentary Systems 2	SILIC P2: Reservoir Characterization of Siliciclastic Systems 1	SILIC P3: Shallow Marine Sedimentary Systems 1	MME P1: Mineral Exploration: Geophysics 2	SILIC P4: Shallow Marine Sedimentary Systems 2	SILIC P5: Other Relevant Topics

- RCIntegrated Reservoir Characterization
- RP.....Rock Physics
- SILICSiliciclastic Systems
- SMTSeismic Modeling and Theory
- SPSeismic Processing
- SSSpecial Session
- STGM.....Structure, Tectonics, and Geomechanics
- STUDAAPG, SEG, and SEPM Student Research
- SUSSustainability Energy Development and Environmental Geoscience
- TL.....Time Lapse
- UNCONUnconventional Resources



Technical Program Topics at a Glance

AAS: Anisotropy, AVO, and Seismic Inversion

- AAS 1.....AVO Inversion
- AAS 2.....Fracture Properties Estimation
- AAS 3.....Anisotropy
- AAS 4.....Reservoir Property Estimation
- AAS 5.....Novel Technologies
- AAS 6.....Case Studies
- AAS P1.....Prestack and Azimuthal Inversion
- AAS P2.....Compressional and Shear Waves
- AAS P3.....Facies and Fluids
- AAS P4.....Inversion
- AAS P5.....New Technologies and Applications 1
- AAS P6.....New Technologies and Applications 2

ACQ: Acquisition

- ACQ 1.....Marine Acquisition
- ACQ 2.....Survey Design and Optimization
- ACQ 3.....CCS and Marine Vibrators
- ACQ 4.....Compressive Sensing and Novel Methods
- ACQ 5.....Ocean Bottom Nodes
- ACQ P1.....OBN Design and Deployment
- ACQ P2.....Land Acquisition
- ACQ P3.....Compressive Sensing and Signal Processing
- ACQ P4.....Vibroseis Operation and Case Study

BH: Borehole

- BH 1.....VSP and Crosswell
- BH 2.....Petrophysics
- BH 3.....Geomechanics and Geophysics
- BH 4.....Near-wellbore Imaging and Structural Modeling
- BH P1.....Borehole Geophysics for Carbon Storage
- BH P2.....Machine Learning for Wellbore Applications

BMPS: Basin Modeling and Petroleum Systems

- BMPS 1.....Integrated Workflows in Basin Modeling
- BMPS 2.....Seal and Pore Pressure Risk Assessment
- BMPS 3.....Petroleum Systems Case Studies 2
- BMPS P1.....Petroleum Systems Case Studies 1
- BMPS P2.....Quantitative Approaches for Validating and Constraining Basin Models

CEMS: Carbonates, Evaporites, and Mixed Systems

- CEMS 1.....Advances in Permian Basin Understanding 1
- CEMS 2.....Carbonate Source Rocks and Unconventional Systems
- CEMS 3.....Controls on Carbonate Depositional Systems
- CEMS 4.....Diagenesis and Pore Systems in Carbonate Reservoirs
- CEMS 5.....Technologies and Methods in Carbonate Reservoir Characterization 1
- CEMS 6.....Carbonate Insights from Modern and Outcrop Analogs
- CEMS P1.....Characterization of Conventional Carbonate Reservoirs

- CEMS P2.....Faults, Fractures, and Karst in Carbonate Reservoirs
- CEMS P3.....Advances in Permian Basin Understanding 2
- CEMS P4.....Technologies and Methods in Carbonate Reservoir Characterization 2
- CEMS P5.....Utilization of Core in Carbonate Reservoir Characterization

CO2: Low Carbon Solutions/CCS

- CO2 1.....Developments and Lessons Learned
- CO2 2.....Modeling and Simulation
- CO2 3.....Regional Evaluations and Site Characterizations
- CO2 4.....Monitoring 3
- CO2 5.....Monitoring 4
- CO2 6.....Modeling and Simulation: Machine Learning in CCS 1
- CO2 7.....Modeling and Simulation: Machine Learning in CCS 2
- CO2 P1.....Site Characterizations and Case Studies 1
- CO2 P2.....Site Characterizations and Case Studies 2
- CO2 P3.....Monitoring 1
- CO2 P4.....Monitoring 2

DAS: Distributed Acoustic Sensing

- DAS 1.....Case Study: Offshore
- DAS 2.....Seismic Analysis and Inversion
- DAS 3.....Low-frequency DAS and Strain Sensing
- DAS 4.....New Methods and Applications
- DAS P1.....Case Study: Onshore
- DAS P2.....Machine Learning Applications 1
- DAS P3.....Machine Learning Applications 2

EMP: EM and Potential Field

- EMP 1.....EM Methods 1
- EMP 2.....EM Methods 2
- EMP P1.....EM Methods 3

ENEC: Emerging New Exploration Concepts: Challenges and Opportunities

- ENEC 1.....Best Practices in Exploration Discoveries 1
- ENEC 2.....New Trends and Emerging Exploration Concepts 1
- ENEC 3.....The Power of Integration: Turning Challenges into Opportunities
- ENEC P1.....Best Practices in Exploration Discoveries 2
- ENEC P2.....New Trends and Emerging Exploration Concepts 2

FWI: Full-Waveform Inversion

- FWI 1.....Case Studies 1
- FWI 2.....Case Studies 2
- FWI 3.....Cycle Skipping
- FWI 4.....Elastic and Multiparameter
- FWI 5.....Land, Marine Streamer, and OBN
- FWI 6.....Reflection

- FWI 7**.....New Advances
- FWI 8**.....Theory and Methods 1
- FWI 9**.....Machine Learning 2
- FWI 10**.....Theory and Methods 2
- FWI P1**.....Machine Learning 1
- FWI P2**Applications 1
- FWI P3**..... Theory
- FWI P4**.....Applications 2

GCHEM: Geochemistry

- GCHEM 1**.....Geochemistry and Petroleum Systems
- GCHEM 2**.....Fluid Geochemistry
- GCHEM 3**.....Geochemistry of Unconventionals
- GCHEM P1**....Geochemical Methods and Tools 1
- GCHEM P2**....Geochemical Methods and Tools 2

GM: Gravity and Magnetics

- GM 1**Inversion
- GM 2**Applications
- GM P1**Potential Field Applications

HPG: History of Petroleum Geoscience

- HPG 1**.....History of Petroleum Geology

INT: Geological and Geophysical Interpretation

- INT 1**Intelligent Reservoir Property Prediction
- INT 2**.....Intelligent Seismic Horizon Interpretation
- INT 3**.....Structural Interpretation
- INT 4**.....Sedimentary Interpretation
- INT 5**.....Resolution
- INT 6**.....Attribute
- INT 7**.....Case Study: Sand Body
- INT 8**.....Case Study: Faults and Fractures
- INT 9**.....Interpretation and Inversion 1
- INT 10**Interpretation and Inversion 2
- INT 11**Integrated Interpretation
- INT 12**Stratigraphic Mapping
- INT P1**.....Case Study: Seismic Sequence and Facies Analysis
- INT P2**.....Case Study: Igneous Intrusion
- INT P3**.....AI Based Seismic Interpretation Workflows 1
- INT P4**.....AI Based Seismic Interpretation Workflows 2
- INT P5**.....Seismic Facies Analysis: Inversion
- INT P6**.....Seismic Facies Analysis: Modeling
- INT P7**.....Inversion Methods
- INT P8**.....Interpretation Methods
- INT P9**.....Quantitative Interpretation
- INT P10**Reservoir Characterization
- INT P11**Case Study: Structural Modeling

INTD: Deep Integration of Data and Disciplines

- INTD 1**.....Joint Inversion and Quantum Computing
- INTD 2**.....Pressure Estimation and Deep Integrations
- INTD 3**.....Data Across Disciplines
- INTD P1**.....Reservoir Modeling and Drilling Decision
- INTD P2**.....Data Integration in Exploration and Production

IPS: Induced and Passive Seismic

- IPS 1**Mechanisms
- IPS 2**Induced Seismicity in Midland, Texas
- IPS 3**Novel Methods
- IPS P1**Detection Methods
- IPS P2**.....Observation

MLDA: Machine Learning and Data Analytics: Theory and Special Applications

- MLDA 1**Full-waveform Inversion and Velocity Model Building 1
- MLDA 2**Physics-Informed Neural Networks and Fourier Neural Operators
- MLDA 3**Uncertainty Quantification
- MLDA 4**Seismic Processing and Imaging 1
- MLDA 5**Low Carbon Solution
- MLDA 6**Seismic Interpretation 1
- MLDA 7**Borehole Applications
- MLDA 8**Petrophysical Analytics
- MLDA 9**Inversion and Property Estimation 2
- MLDA 10**.....Reservoir Modeling 2
- MLDA 11**.....Reservoir Modeling 3
- MLDA 12**.....Generative Models
- MLDA P1**Inversion and Property Estimation 1
- MLDA P2**Reservoir Modeling 1
- MLDA P3**Novel Applications 1
- MLDA P4**Full-waveform Inversion and Velocity Model Building 2
- MLDA P5**Seismic Interpretation 2
- MLDA P6**Seismic Processing and Imaging 2
- MLDA P7**Novel Applications 2
- MLDA P8**Seismic Processing and Imaging 3
- MLDA P9**Petrophysical Analytics and Borehole Applications

MME: Mining and Mineral Exploration

- MME 1**.....Mineral Exploration: Geophysics 1
- MME 2**.....Mineral Exploration/Development: Applied Geoscience
- MME 3**.....Mineral Exploration: Geophysical Case Studies 1
- MME 4**.....Mineral Exploration: Geophysical Case Studies 2
- MME P1**.....Mineral Exploration: Geophysics 2

NEF: New Energy Frontiers, Critical Minerals, Planetary Geoscience

- NEF 1**Advancements in Subsurface Geothermal Resource Development
- NEF 2**Hydrogen: Geologic Resources and Subsurface Storage
- NEF 3**Critical Minerals and Extraterrestrial Resources Research
- NEF P1**Geothermal and Hydrogen Resources

NS: Near Surface

- NS 1**Imaging, Inversion, and Machine Learning in Near Surface Geophysics 1
- NS 2**.....Near Surface Geophysics for Monitoring and Remediation
- NS 3**.....Imaging, Inversion, and Machine Learning in Near Surface Geophysics 3
- NS 4**.....Seismic Methods in Near Surface Geophysics
- NS 5**.....Urban, Geotechnical, and Archeological Applications

Technical Program Topics at a Glance (Continued)

- NS 6 Dams, Levees, Coastal, and Cryosphere Geophysics
- NS P1 Imaging, Inversion, and Machine Learning in Near Surface Geophysics 2
- NS P2 Climate, Coastal, and Environmental Geophysics
- NS P3 Urban, Geotechnical, and Archeological Geophysics
- NS P4 Seismic for Near Surface Geophysics

PBAA: Paleontology and Biostratigraphy Advances and Application

- PBAA 1 Microfossils in Hydrocarbon Exploration: Case Studies

RC: Integrated Reservoir Characterization

- RC 1 Fracture Systems and Dynamic Modeling
- RC 2 Seismic Inversion Methods
- RC 3 Methods and Case Studies 2
- RC 4 Methods and Case Studies 3
- RC 5 Case Studies
- RC P1 Methods 1
- RC P2 Methods 2
- RC P3 Methods 3
- RC P4 Methods and Case Studies 1

RP: Rock Physics

- RP 1 Dispersion and Attenuation
- RP 2 Fractures and Anisotropy
- RP 3 Pore Scale Effects
- RP 4 Properties of Sandstones
- RP P1 Experimental Studies
- RP P2 Property Predictions
- RP P3 Reservoir Characterization
- RP P4 Pore Structure Effects

SILIC: Siliciclastic Systems

- SILIC 1 Deepwater Sedimentary Systems 1
- SILIC 2 Deepwater Sedimentary Systems 3
- SILIC 3 Advances in Siliciclastic Systems Modeling and Prediction
- SILIC 4 Applied Chemostratigraphy, Biostratigraphy, and Provenance Studies
- SILIC 5 Reservoir Characterization of Siliciclastic Systems 2
- SILIC 6 Source to Sink: Basin Analysis and Tectono-Stratigraphic Interactions
- SILIC 7 Shallow Marine Sedimentary Systems 3
- SILIC P1 Deepwater Sedimentary Systems 2
- SILIC P2 Reservoir Characterization of Siliciclastic Systems 1
- SILIC P3 Shallow Marine Sedimentary Systems 1
- SILIC P4 Shallow Marine Sedimentary Systems 2
- SILIC P5 Other Relevant Topics

SMT: Seismic Modeling and Theory

- SMT 1 Theoretical Developments in Seismic Modeling and Wave Phenomena 1
- SMT 2 Theoretical Developments in Seismic Modeling and Wave Phenomena 2
- SMT 3 Theoretical Developments in Seismic Modeling and Wave Phenomena 3
- SMT 4 Theoretical Developments in Seismic Modeling and Wave Phenomena 4
- SMT P1 Theoretical Developments in Seismic Modeling and Wave Phenomena 5
- SMT P2 Theoretical Developments in Seismic Modeling and Wave Phenomena 6

SP: Seismic Processing

- SP 1 Migration Algorithms 1
- SP 2 Imaging Case Study
- SP 3 Elastic and Diffraction Imaging
- SP 4 Least-squares Imaging and Q-migration
- SP 5 Advanced Velocity Model Building Techniques 1
- SP 6 Velocity Model Building and Application
- SP 7 Machine Learning Denoise
- SP 8 Machine Learning Event Detection
- SP 9 Multiple Removal Techniques 2
- SP 10 Seismic Data Interpolation and Regularization 2
- SP 11 Wavefield Separation and Deconvolution
- SP 12 Noise Removal 2
- SP 13 Deblending and Denoise
- SP 14 Novel Solutions and Applications
- SP P1 Multiple Removal Techniques 1
- SP P2 Seismic Data Interpolation and Regularization 1
- SP P3 Denoise and Deblend
- SP P4 Noise Removal 1
- SP P5 Advanced Velocity Model Building Techniques 2
- SP P6 Machine Learning Applications for Seismic Processing
- SP P7 Least-squares Migration and Q-migration
- SP P8 Elastic, Diffraction, and Marchenko Imaging
- SP P9 Migration Algorithms 2
- SP P10 Imaging Case History
- SP P11 Emerging Technologies: Case Studies and Advances

SS: Special Sessions

- SS 1 Future of Applied Geophysics: Applications
- SS 2 Future of Applied Geophysics: Tools
- SS 3 Recent Advances and the Road Ahead: Hot Topics in Geoscience 1
- SS 4 Geoscientists *without* Borders®: Applied Geoscience for Humanitarian Need 1
- SS 5 Recent Advances and the Road Ahead: Hot Topics in Geoscience 2

- SS 6Use of Seismic Data for Critical Mineral Exploration
- SS 7Geoscientists *without* Borders®: Applied Geoscience for Humanitarian Need 2
- SS 8SEPM Research Symposium: The Sedimentary Response to Changing Climate
- SS 9Petroleum Enrichment and the Tethys Geodynamic System 1
- SS 10Recent Advances in CCS Monitoring: Technology and Case Study
- SS 11Tectonics, Sedimentary Basins, and Petroleum Systems
- SS 12Petroleum Enrichment and the Tethys Geodynamic System 2
- SS 13SEG/AGU Hydrogeophysics
- SS 14Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 1
- SS 15Detecting and Characterizing Orphaned Oil and Gas Wells
- SS 16Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 2
- SS 17Long Term Geophysical Monitoring of Near Surface Processes
- SS 18Innovative Crossover Technologies between the Oil and Gas and Near-Surface and Mineral Sectors
- SS 19Cryogeophysics: Near-surface Geophysics in the Cryosphere
- SS 20Open-source Geospatial and Geophysical Software
- SS 21Dams and Levees

STGM: Structure, Tectonics, and Geomechanics

- STGM 1Structural Interpretation, Geomechanical Modeling, and Geophysics
- STGM 2Natural and Induced Fractures, and Fluid Flow
- STGM 3Fault and Natural Fracture Characterization
- STGM 4Salt Deposition, Diapirism, and Deformation
- STGM P1Contractional Tectonics
- STGM P2Extensional Tectonics and Salt-related Systems
- STGM P3Faults, Fractures, and Fluids 1
- STGM P4Faults, Fractures, and Fluids 2

STUD: AAPG, SEG, and SEPM Student Research

- STUD P1Student Session 1
- STUD P2Student Session 2
- STUD P3Student Session 3
- STUD P4Student Session 4
- STUD P5Student Session 5
- STUD P6Student Session 6

SUS: Sustainability Energy Development and Environmental Geoscience

- SUS 1Rock Stars of SDGs
- SUS 2Global Water Crisis
- SUS P1Earth Science in Action

TL: Time Lapse

- TL 1Advances and Case Studies
- TL 2Quantitative Analysis and Inversion
- TL P1Feasibility, Processing, and Imaging of 4D Seismic
- TL P2Improvements in Time-lapse Analysis

UNCON: Unconventional Resources

- UNCON 1Basin and Play-scale Characterization 1
- UNCON 2Shale and Tight Reservoir Characterization 1
- UNCON 3Applied Geosciences for Shale and Tight Reservoirs 1
- UNCON 4Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 1
- UNCON 5Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 1
- UNCON P1Basin and Play-scale Characterization 2
- UNCON P2Shale and Tight Reservoir Characterization 2
- UNCON P3Applied Geosciences for Shale and Tight Reservoirs 2
- UNCON P4Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 2
- UNCON P5Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 2



For the most up-to-date technical program information, download the IMAGE Events mobile app.



Tuesday, 29 August

BH 1 VSP and Crosswell

Session Chairs: Joel Le Calvez and Michel Verliac

Location: 362B

Synopsis: *Crosswell seismic, simultaneous source DAS VSP, look ahead VSP.*

- 8:00 AM..... **Anisotropic elastic full-waveform inversion for crosswell seismic data for Wyoming CarbonSAFE project:** O. Podgornova¹, S. Ali¹, T. Lei¹, P. Li², M. Johnson³, L. Lee³, Z. Jiao³, J. McLaughlin³, E. Borchardt¹, L. Liang⁴, P. Bettinelli⁵, J. Le Calvez⁶ (1. SLB; 2. University of Wyoming; 3. University of Wyoming; 4. Schlumberger Ltd Research & Development; 5. SLB; 6. SLB) (INT. AUD.: 3) Speaker: Olga Podgornova
- 8:25 AM..... **Enhancing efficiency of walkaway DAS-VSP in a CCUS project through simultaneous source acquisition: A case study from Onshore Japan:** K. Fuita¹, S. Nakayama¹, Y. Yamada¹, T. Mouri² (1. INPEX; 2. JOGMEC) (INT. AUD.: 3) Speaker: Kotaro Fuita
- 8:50 AM..... **The deblending processing of multi-well 3D DAS-VSP data in the Middle East:** F. Li¹, G. Yu^{*2}, H. Liu², J. Song², Y. Zhang¹, Y. Chen¹, T. Yin², J. Han¹, Q. Li¹ (1. Optical Science and Technology (Chengdu) Ltd.; 2. BGP Inc.) (INT. AUD.: 2) Speaker: Gang Yu
- 9:15 AM..... **Look-ahead zero-offset VSP elastic waveform inversion:** Y. Chen¹, T. Mizuno¹, P. Bettinelli², J. Le Calvez³ (1. SLB; 2. SLB; 3. SLB) (INT. AUD.: 3) Speaker: Yu Chen

CEMS 1 Advances in Permian Basin Understanding 1

Session Chairs: Charlie Kerans and Arthur Saller

Location: 371A

Synopsis: *This session highlights recent studies that add to the knowledge base and interpretation of this classic mixed carbonate-siliciclastic depositional basin.*

- 8:00 AM..... **Old rocks, new ways: Outcrop pseudo-well logs and stratigraphy along a thinning distal to proximal transect through the Fusselman Formation and Montoya Group:** A. Roark (Chevron North America E&P) (INT. AUD.: 5) Speaker: Andrew Roark
- 8:25 AM..... **Depositional and stratigraphic differences in the San Andres and Clearfork Formations that cause large differences in oil production, Permian Basin, USA:** A. Saller¹, F. Messa² (1. Consultant; 2. Sabinal Energy) (INT. AUD.: 3) Speaker: Arthur Saller
- 8:50 AM..... **Comparative anatomy of Modern and Permian oolitic tidal deltas – controls on deposition and preservation:** J. W. Rush¹, G. Rankey² (1. Occidental; 2. The University of Kansas) (INT. AUD.: 3) Speaker: Jason Rush
- 9:15 AM..... **The stratigraphic record of the Castile Formation in the northern Delaware Basin (Texas and New Mexico): Updating sedimentary processes governing deep-water evaporite sequences:** A. Martinez-Donate, L. G. Moscardelli, C. Schuba, L. Ko, S. Bhattacharya, L. Melani (University of Texas at Austin) (INT. AUD.: 4) Speaker: Ander Martinez-Donate

ENEC 1 Best Practices in Exploration Discoveries 1

Session Chairs: Sebastian Galeazzi and David Tang

Location: 361A

Synopsis: *Explore cutting-edge concepts and challenges in exploration discoveries with presentations on passive margins, Atlantic margins, off-structure plays, and gas discovery in igneous rocks.*

- 8:00 AM..... **Hydrocarbon potential of the Malvinas Basin, southern Argentina:** M. A. Reynald, R. James, K. Heyburn, H. Smyth* (Halliburton) (INT. AUD.: 3) Speaker: Helen Smyth
- 8:25 AM..... **Offshore Argentina: Lessons from previous exploration on both sides of the Atlantic:** J. Scotchman¹, K. Heyburn¹, H. Smyth¹, C. Gravestock^{*2} (1. Halliburton; 2. Halliburton (Non-Author)) (INT. AUD.: 2) Speaker: Christopher Gravestock
- 8:50 AM..... **Assessing off-structure potential of Marrat Reservoir of Jurassic Age:** M. K. Al-Mershed, T. F. Aladwani, A. Nada Mohamad Amar, A. AL-Rukaibi, A. Prakash, D. Djanawir, V. Chilumuri, A. AL-Saeedi (Kuwait Oil Company) (INT. AUD.: 5) Speaker: Mohammad Al-Mershed
- 9:15 AM..... **WITHDRAWN**

GM 1 Inversion

Session Chairs: Ed Biegert and Jeff Shoffner

Location: 372B

Synopsis: *Advances in inversion concepts.*

- 8:00 AM..... **3D trans-dimensional Monte Carlo geometry inversion and uncertainty quantification using gravity data:** X. Wei¹, J. Sun¹, M. Sen² (1. University of Houston; 2. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Xiaolong Wei
- 8:25 AM..... **Analysis of potential fields through source decomposition in hypercompact atoms:** M. Maiolino, L. Bianco, G. Florio, M. Fedi (University of Naples "Federico II") (INT. AUD.: 4) Speaker: Marco Maiolino
- 8:50 AM..... **Retrieving geological signal from full tensor gravity gradiometry data using source body migration:** C. Murphy¹, R. Farnell¹, C. Bellamy¹, A. Morgan² (1. Bell Geospace Limited; 2. Bell Geospace Inc) (INT. AUD.: 3) Speaker: Colm Murphy
- 9:15 AM..... **Are we there yet? Criteria for choosing optimal regularization in simultaneous joint inversion problems:** A. Darrh, Y. Li (Colorado School of Mines) (INT. AUD.: 3) Speaker: Andréa Darrh

INT 1 Intelligent Reservoir Property Prediction

Session Chairs: Fan Jiang and Nam Pham

Location: 362A

Synopsis: *New reservoir property prediction algorithms with the aid of machine learning.*

- 8:00 AM..... **Supervised machine learning applied for carbonate reservoir productivity prediction in Brazilian pre-salt using seismic multi-attributes and well dynamic data:** M. Maas¹, H. Bedle², M. Ballinas², M. Matos³ (1. Petrobras; 2. University of Oklahoma; 3. SISMO) (INT. AUD.: 4) Speaker: Marcus Maas

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

8:25 AM..... **Intelligent digital rock physics assisting quantitative seismic interpretation:** Z. Hou, D. Cao, X. Wang (China University of Petroleum (East China)) (INT. AUD.: 4)
Speaker: Zhiyu Hou

8:50 AM..... **The new approaches of complex reservoir prediction based on high-accuracy seismic inversion:** X. Zhang, C. Du, X. Liu, J. Li, Y. Meng, Y. Luo (BGP, CNPC) (INT. AUD.: 5) Speaker: Xichen Zhang

9:15 AM..... **Novel application of machine learning assisted fault interpretation to delineate earthquake risk from saltwater disposal in the Midland Basin:** N. Shumaker, M. Afia (SLB) (INT. AUD.: 5) Speaker: Niven Shumaker

INTD 1 Joint Inversion and Quantum Computing

Session Chairs: Colton Kohnke and Mengli Zhang

Location: 372C

Synopsis: Computational methods for imaging subsurface using multiple data sets with the aid of traditional and quantum computing.

8:00 AM..... **Joint inversion of magnetic and magnetotelluric data using fuzzy c-means clustering:** A. Darrh¹, Y. Li² (1. Colorado School of Mines; 2. Colorado School of Mines) (INT. AUD.: 3) Speaker: Andréa Darrh

8:25 AM..... **Joint inversion for geophysical data based on deep-learning-enhanced cross gradients:** Y. Jin, W. Li (Aramco Houston Research Center) (INT. AUD.: 3)
Speaker: Yuchen Jin

8:50 AM..... **Practically feasible shortest path estimation with a quantum annealer:** M. Dukalski, B. Oudejans, A. Kontakis (Aramco Research Center Delft, Aramco Europe) (INT. AUD.: 2) Speaker: Marcin Dukalski

9:15 AM..... **Gated based quantum computer algorithm for geophysical inversion:** J. E. Monsegny¹, D. Trad², D. Lawton³ (1. Student; 2. Professor; 3. Carbon Management Canada) (INT. AUD.: 2)
Speaker: Jorge Monsegny

MLDA 1 Full-waveform Inversion and Velocity Model Building 1

Session Chairs: Alejandro Valenciano and Madhav Vyas

Location: 351B

Synopsis: Use of neural networks to enhance velocity model building and full waveform inversion.

8:00 AM..... **Amortized Bayesian full-waveform inversion and experimental design with normalizing flows:** R. Orozco¹, M. Louboutin², F. J. Herrmann³ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Georgia Institute of Technology) (INT. AUD.: 3)
Speaker: Rafael Orozco

8:25 AM..... **Invertible neural network for automatic velocity model building and uncertainty quantification:** Y. Sun¹, J. Shen³, P. Williamson² (1. TotalEnergies E&P Research & Technology USA; 2. TotalEnergies OneTech R&D, France; 3. Penn State University) (INT. AUD.: 3) Speaker: Yen Sun

8:50 AM..... **Bridging the gap: Deep learning on seismic field data with synthetic training for building Gulf of Mexico velocity models:** S. T. Farris, R. G. Clapp (Stanford University) (INT. AUD.: 3) Speaker: Stuart Farris

9:15 AM..... **Self-supervised active learning for seismic full-waveform inversion:** D. Colombo¹, E. Turkoglu¹, E. Sandoval Curiel¹, A. Y. Taqi² (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 3) Speaker: Daniele Colombo

NS 1 Imaging, Inversion, and Machine Learning in Near Surface Geophysics 1

Session Chairs: Julian Ivanov and Tim Johnson

Location: 351A

Synopsis: New methods case studies for inversion and machine learning with near surface geophysical data.

8:00 AM..... **A novel 9C-ultrahigh resolution seismic survey in a quick-clay landslide-prone area in southwestern of Sweden:** T. Pertuz, A. Malehmir (Uppsala University) (INT. AUD.: 3) Speaker: Tatiana Pertuz

8:25 AM..... **Electric resistivity tomography inversion guided by passive microtremor data for the detection of karst cavities:** D. Wang¹, D. Yang¹, Z. Yang¹, Q. Feng¹, G. Long³, Q. Wang² (1. Southern University of Science and Technology; 2. Shenzhen Tegen Group Co.,LTD; 3. Shenzhen Municipal Engineering Corp) (INT. AUD.: 3)
Speaker: Daopu Wang

8:50 AM..... **Multi-domain simultaneous joint inversion for near-surface characterization – A case study from onshore US:** N. Johnson, A. H. Mohamed, Z. T. Jackson*, S. Riseman, K. Douglas (SLB) (INT. AUD.: 3)
Speaker: Zhanna Jackson

9:15 AM..... **3D inversion of semi-airborne magnetometric resistivity data:** Z. Chen, D. Yang (Southern University of Science and Technology) (INT. AUD.: 4)
Speaker: Zhongchang Chen

SMT 1 Theoretical Developments in Seismic Modeling and Wave Phenomena 1

Chairs: Gokay Bozkurt and Fuchun Gao

Location: 372A

Synopsis: Papers in this session cover theoretical developments involving numerical modeling of wavefield propagation, imaging, and inversion.

8:00 AM..... **An acoustic wave equation with the gradients of velocity and density:** J. Bai¹, O. Yilmaz² (1. AspenTech; 2. AspenTech) (INT. AUD.: 4) Speaker: Jianyong Bai

8:25 AM..... **Acoustic modelling with elastic AVA effects:** R. P. Fletcher, J. Hobro, J. Rickett (SLB) (INT. AUD.: 4)
Speaker: Robin Fletcher

8:50 AM..... **Viscoelastic anisotropic wave modeling for arbitrary topographic free surfaces and fluid-solid interfaces:** C. Jin, B. Zhou (Khalifa University) (INT. AUD.: 5)
Speaker: Chao Jin

9:15 AM..... **Pre-Stack image domain LSRTM: A case study from imaging to elastic inversion:** B. Tavakoli, S. Whitehead*, B. Duquet, p. Trinh (TotalEnergies) (INT. AUD.: 3)
Speaker: Sam Whitehead

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

SP 1 Migration Algorithms 1

Session Chairs: Diancheng Wang and Paul Williamson

Location: 371B

Synopsis: Advanced techniques in seismic imaging, including migration, redatuming, and angle gather computation.

8:00 AM..... **Acoustic approximation VTI reverse time migration using pseudo-depth mapping method:** X. Zhang, J. Huang, Z. Li (China University of Petroleum (East China)) (INT. AUD.: 2) Speaker: Xinwen Zhang

8:25 AM..... **Gaussian beam migration based on an adaptive variable grid strategy:** S. Zhuang, J. Huang, Z. Li (China University of Petroleum (East China)) (INT. AUD.: 5) Speaker: Subin Zhuang

8:50 AM..... **Computing angle gathers from imaging of multiples using Poynting vectors:** S. Zhang¹, S. Lu¹, M. D. Sacchi² (1. Sun Yat-sen University; 2. University of Alberta) (INT. AUD.: 3) Speaker: Shukui Zhang

9:15 AM..... **Upside down Rayleigh-Marchenko imaging: towards a practical exact redatuming scheme for ocean bottom acquisitions:** N. Wang¹, M. Ravasi² (1. King Abdullah University of Science and Technology; 2. KAUST) (INT. AUD.: 3) Speaker: Ning Wang

SS 1 Future of Applied Geophysics: Applications

Session Chairs: Lindsey Heagy and Mike Wilt

Location: 360A

Synopsis: Grand challenge problems that can leverage applied geophysics.

8:00 AM..... **More than Ore: The future of geophysics through the mining value chain:** M. Thomas (BHP) (INT. AUD.: 2) Speaker: Michelle Thomas

8:25 AM..... **The role of geophysics in the emerging North American CO₂ sequestration market:** W. Abriel¹, D. Alumbaugh² (1. Orinda Geophysical; 2. Lawrence Berkeley National Laboratory) (INT. AUD.: 3) Speaker: William Abriel

8:50 AM..... **The future of geophysics applied to geothermal exploration and development:** W. B. Cumming¹, S. Sewell², M. Folsom³, D. Feucht⁴, G. Matson⁵, K. R. Christopherson⁶ (1. Cumming Geoscience; 2. Australis Geoscience Ltd; 3. Geologica Geothermal Group, Inc.; 4. Ormat Technologies, Inc.; 5. Fervo Energy; 6. Chinook Geoconsulting, Inc.) (INT. AUD.: 2) Speaker: William Cumming

9:15 AM..... **Applied geophysics for groundwater sustainability: Challenges and opportunities:** S. Kang, R. Knight, M. Goebel (Stanford University) (INT. AUD.: 1) Speaker: Seogi Kang

SUS 1 Rock Stars of SDGs

Session Chairs: Karelia La Marca and Eleine Vence

Location: 362C

Synopsis: Geoscientists, essential in ongoing debates on climate change, water scarcity, energy security, and critical minerals, help communicate environmental, social, and governance concerns of geoscience-related projects.

8:00 AM..... **The importance of stakeholders in geoscience:** M. A. Capello¹, I. Stewart², A. C. Shaughnessy³, D. M. Cox⁴, E. Caslin⁵, H. K. Handley⁶ (1. Red Tree Consulting, LLC;

2. Royal Scientific Society; 3. SEG; 4. Storm Energy; 5. iCRAG; 6. University of Twente) (INT. AUD.: 3)

Speaker: Maria Capello

8:25 AM..... **"Clean Skies" and the energy transition: A broad outreach campaign to improve community acceptance of CCUS:** D. J. Hills, B. L. Roth (Advanced Resources International, Inc) (INT. AUD.: 3) Speaker: Denise Hills

8:50 AM..... **Transition to electric economy from hydrocarbons: Let us not trade one energy dependence with another insecurity:** N. Kumar (Growth Oil and Gas) (INT. AUD.: 2) Speaker: Naresh Kumar

9:15 AM..... **Offshore windfarm soil characterisation – Leveraging oil and gas industry methods for the energy transition:** L. Barends¹, E. Cauquil², K. Tarek¹ (1. TotalEnergies; 2. One Tech – Technical Lines – TECGEO) (INT. AUD.: 4) Speaker: Leon Barends

TL 1 Advances and Case Studies

Session Chairs: Shauna Oppert and Jan Stammeijer

Location: 370A

Synopsis: This session highlights the latest case studies focusing on enhancing 4D data quality and hence getting more value out of time-lapse seismic. Applications include, but are not limited to, downhole seismic, machine learning, and land 4D analysis.

8:00 AM..... **Subsidence measurement and improved statics solutions through accurate node depth determination during time-lapse deepwater OBN surveys:** P. Dutta¹, D. Kiyashchenko¹, K. Wang¹, A. Libak², E. V. Bergfjord², I. Grøvik², R. Agersborg², H. Ruiz², A. Shen¹, D. B. Acuna¹, T. Noble¹ (1. Shell USA, Inc.; 2. Reach Subsea) (INT. AUD.: 3) Speaker: Priyanka Dutta

8:25 AM..... **Iterative imaging technology for correcting 4D acquisition variable conditions, application to a West Africa case study:** D. Lecerf¹, A. Tantsereva¹, S. de Pierrepont¹, C. Reiser² (1. PGS; 2. PGS) (INT. AUD.: 4) Speaker: Didier Lecerf

8:50 AM..... **A new method to realize dynamic reservoir properties from 4D seismic data: A North Sea application:** A. Tura¹, M. Held¹, J. Simmons¹, A. Kvilhaug², P. Dhelie² (1. Colorado School of Mines; 2. Aker BP) (INT. AUD.: 3) Speaker: Ali Tura

9:15 AM..... **4D seismic-guided injected volume estimation: A pseudo-skeletonization approach:** J. Nunes Jorge, C. Agut*, T. Blanchard, J. Granel, P. Thore (TotalEnergies) (INT. AUD.: 3) Speaker: Cyril Agut

UNCON 1 Basin and Play-scale Characterization 1

Session Chairs: Seth Buseti and Sebastian Ramiro-Ramirez

Location: 361B

Synopsis: This session focuses on play-based and regional-scale characterization of unconventional shales and tight reservoirs.

8:00 AM..... **Examination of middle Three Forks co-development on upper Three Forks well performance in north-central McKenzie County, western North Dakota:** T. Nesheim (North Dakota Geological Survey) (INT. AUD.: 3) Speaker: Timothy Nesheim

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

8:25 AM..... **Optimum horizontal placement in unconventional plays using continuous survey measurements:** M. K. Alabbad, O. A. Alenezi, H. J. Aqeel (Saudi Aramco) (INT. AUD.: 4)
Speaker: Mustafa Alabbad

8:50 AM..... **Unconventional resources exploration in Latin America: Looking for another successful shale play:** A. Bande, R. Veiga, E. Micucci (Tecpetrol S.A.) (INT. AUD.: 4)
Speaker: Alejandro Bande

9:15 AM..... **Facies and associated reservoir quality of second Bone Spring carbonate, third Bone Spring siliciclastic (sand), Wolfcamp A and B in southern Delaware Basin (Pecos Co.), Texas:** L. Ko, T. Larson, P. Periwal, E. Sivil (Bureau of Economic Geology) (INT. AUD.: 3)
Speaker: Lucy Tingwei Ko

BH 2 Petrophysics

Session Chairs: Purnaprajna Mangsuli and Vanessa Simoes

Location: 362B

Synopsis: The abstracts align with the use of well logging, core analysis, and laboratory experiments for porosity, permeability, and hydrocarbon estimates.

10:20 AM.... **Unlocking true hydrocarbon potential from effective combination of dielectric dispersion and nuclear magnetic resonance in oil based mud exploration well – A case study from North Sumatra Area, Indonesia:** E. Adhiansyah¹, A. Santoso¹, R. Putra¹, A. Ramadhan¹, M. P. Pangestu¹, J. Jhonny², H. Ng², S. A. Wiyoga², C. Cavalleri² (1. Pertamina Hulu Rokan; 2. SLB) (INT. AUD.: 4) Speaker: Erfandi Adhiansyah

10:45 AM.... **Adaptive OCCAM's inversion for the interpretation of borehole ultra-deep azimuthal resistivity measurements:** W. Saputra¹, J. Hou¹, C. Torres-Verdin¹, S. Davydycheva², V. Druskin² (1. UT Austin; 2. 3D EM Modeling&Inversion JIP) (INT. AUD.: 3)
Speaker: Wardana Saputra

11:10 AM **Tortuosity and grain size modeling for permeability prediction in the clastic reservoir:** V. Saxena (RockLog Consultancy) (INT. AUD.: 4) Speaker: Vimal Saxena

11:35 AM.... **Gaialog: A new software for petrophysical analysis for both simple and complex lithology: Application on Bahariya reservoir, Shahd Field, East Qattara, Egypt:** B. Chikiban, M. Kamel, W. Mabrouk, A. Metwally (Cairo University) (INT. AUD.: 4) Speaker: Basem Chikiban

CEMS 2 Carbonate Source Rocks and Unconventional Systems

Session Chairs: Jerome Bellian and David Katz

Location: 371A

Synopsis: This session highlights the depositional patterns, stratigraphy, distribution of properties, and controls on carbonate source rocks and unconventional reservoirs.

10:20 AM.... **Source rock evaluation of the Hogan Formation on the Spruce Spur in Elko County, Nevada:** V. Nowaczewski¹, D. M. Sturmer² (1. University of Cincinnati; 2. University of Cincinnati) (INT. AUD.: 3)
Speaker: Vincent Nowaczewski

10:45 AM.... **Tide-induced internal waves and their impact on the carbonate source rocks architecture in the Late Jurassic Arabian intrashelf basin: Insights from a**

paleohydrodynamic simulation: A. N. Wicaksono¹, G. Gairola¹, P. Zhan², D. Guo³, I. Hoteit³, V. Vahrenkamp¹ (1. King Abdullah University of Science and Technology (KAUST); 2. Southern University of Science and Technology; 3. King Abdullah University of Science and Technology (KAUST)) (INT. AUD.: 3)
Speaker: Akbar Wicaksono

11:10 AM **The influence of elemental composition on geomechanical properties of a Late Jurassic carbonate mudstone from the Arabian intrashelf basin: Insights from non-destructive core measurement techniques:** S. Chan¹, B. Albensaad², J. Humphrey¹, Y. Alzayer³ (1. CPG - KFUPM; 2. Saudi Aramco; 3. Saudi Aramco) (INT. AUD.: 3) Speaker: Septriandi Chan

11:35 AM **Regional sequence stratigraphy and facies of the Upper Cretaceous Austin Chalk in south and central Texas:** C. Griffith¹, J. Pospichal², E. de Kaenel³, M. Pope¹, A. Donovan¹ (1. Texas A&M University; 2. BugWare, Inc; 3. De Kaenel Paleo Research) (INT. AUD.: 3)
Speaker: Christine Griffith

ENEC 2 New Trends and Emerging Exploration Concepts 1

Session Chairs: Tania Campbell and Brian Horn

Location: 361A

Synopsis: Exploration experts present new models and reprocessed data highlighting exploration potential in Mozambique, Lanka, Bohai Bay, and Colombia.

10:20 AM **Stochastic juxtaposition analysis invalidates "deterministic" SGR using case studies from the Oseberg, Tune, Gullfaks Mahogany and Nun-River fields:** T. Murray¹, W. Power² (1. SHSGEO; 2. Power Geoscience Pty Ltd) (INT. AUD.: 3) Speaker: Titus Murray

10:45 AM.... **Hydrocarbon prospectivity of the lower Bengal Fan system, offshore East lanka:** O. Schenk¹, C. Tu^{*1}, L. Ngo¹, C. Kularathna², D. Kornpilh¹ (1. Schlumberger slb; 2. PDASL) (INT. AUD.: 3) Speaker: Ching Tu

11:10 AM..... **A regional sequence stratigraphic approach to identifying subtle stratigraphic traps - Examples from the Mesozoic of the Middle East:** C. Gravestock, J. Jennings, M. Simmons, K. Heyburn, H. Smyth (Halliburton) (INT. AUD.: 3) Speaker: Christopher Gravestock

11:35 AM **Breaking geological paradigms with reprocessed seismic data in the Sinu and San Jacinto Basins onshore Colombia:** K. Rodriguez¹, N. Hodgson¹, A. Mesa¹, R. Yorke² (1. Searcher Seismic; 2. AGT) (INT. AUD.: 3) Speaker: Karyna Rodriguez

GM 2 Applications

Session Chairs: Neda Bundalo and Marianne Rauch

Location: 372B

Synopsis: Innovative applications of potential field data.

10:20 AM.... **Heat flow and Supervised Learning in the Permian Basin: Applying The Magnetic Layer (TML) to control thermal property calculations:** D. E. Bird¹, W. Cathey², N. Dowla³ (1. Bird Geophysical; 2. Earthfield Technology, LLC; 3. Dowla Analytics, LLC) (INT. AUD.: 3)
Speaker: Dale Bird

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

- 10:45 AM.... **Delineation of VMS deposits in Bathurst Mining Camp, NB, based on lineament analysis and joint interpretation of 3D FTG and magnetic data inversion:** P. Yang¹, A. Peace¹, C. Murphy^{*2}, A. Morgan², L. Clark² (1. McMaster University; 2. Bell Geospace) (INT. AUD.: 3) Speaker: Colm Murphy
- 11:10 AM **Full tensor gradient (FTG) gravity data application for karst features detection in the northeastern Delaware Basin, West Texas:** H. Zhang¹, D. E. Bird² (1. Research Institute of Petroleum Exploration & Development, PetroChina, Beijing; 2. Bird Geophysical) (INT. AUD.: 3) Speaker: Hualing Zhang
- 11:35 AM **Exploiting non-uniqueness: Improving inversion results by post-processing:** J. Brewster (Bell Geospace, Inc) (INT. AUD.: 3) Speaker: James Brewster

INT 2 Intelligent Seismic Horizon Interpretation

Session Chairs: Kinjal Dhar Gupta and Atul Katole

Location: 362A

Synopsis: New seismic structural and stratigraphy interpretation algorithms with the aid of machine learning.

- 10:20 AM.... **Stratigraphic constraint for deep learning image segmentation of geological units:** L. Boillot, A. Thouvenot, J. Kuhn de Chizelle (TotalEnergies) (INT. AUD.: 4) Speaker: Lionel Boillot
- 10:45 AM.... **Cascaded deep learning for fast-track structure model building from 2D seismic data:** T. Zhao, L. Truelove (SLB) (INT. AUD.: 3) Speaker: Tao Zhao
- 11:10 AM **Horizon detection with CNN-based multi-scale volumetric flattening:** J. M. Lomask (S&P Global) (INT. AUD.: 5) Speaker: Jesse Lomask
- 11:35 AM **Machine learning seismic attributes for improved horizon extraction via a multi-scale optimization framework:** D. Thomas-Possee, G. Baines (Halliburton) (INT. AUD.: 3) Speaker: Daniel Thomas-Possee

INTD 2 Pressure Estimation and Deep Integrations

Session Chairs: Rebecca Caldwell and Joseph Capriotti

Location: 372C

Synopsis: Estimating reservoir pressure using multiple geoscientific data sets.

- 10:20 AM.... **Derisking low-saturation gas in Tertiary reservoirs by integration of CSEM and seismic:** F. Roth¹, E. Nerland¹, C. Twarz¹, D. Baltar¹, D. Helland-Hansen² (1. EMGS; 2. EMGS) (INT. AUD.: 2) Speaker: Friedrich Roth
- 10:45 AM.... **Large-scale 3D geophysical electromagnetic field simulation using survey decomposition and blockchain-coordinated massive parallel computing:** Y. Zhang, D. Yang (Southern University of Science and Technology) (INT. AUD.: 3) Speaker: Yuchao Zhang
- 11:10 AM **A novel approach to estimate pressure depletion from 4D seismic softening along oil-water contact signals: A practical GoM application:** C. Bao, L. Colmenares (Shell) (INT. AUD.: 4) Speaker: Chen Bao
- 11:35 AM **Basin modeling-informed estimation of empirical model parameters for pore pressure prediction at predrill stage:** J. Sa da Fonseca¹, N. Dutta³, T. Mukerji² (1. Stanford University; 2. Stanford University; 3.

Stanford University) (INT. AUD.: 3)
Speaker: Josue Sa da Fonseca

MLDA 2 Physics-Informed Neural Networks and Fourier Neural Operators

Session Chairs: Vladimir Kazei and Matteo Ravasi

Location: 351B

Synopsis: Applications of neural networks for seismic modeling and inversion.

- 10:20 AM.... **Multifrequency seismic wavefield modeling in anisotropic media using physics-informed neural networks:** A. Sandhu⁴, U. Waheed¹, C. Song², O. Dorn³, P. Soupios¹ (1. King Fahd University of Petroleum and Minerals; 2. Jilin University; 3. University of Manchester; 4. King Fahd University of Petroleum and Minerals) (INT. AUD.: 2) Speaker: Ali Imran Sandhu
- 10:45 AM.... **Efficiently learned wavefield solutions using physics-informed neural networks with hash encoding:** X. Huang, T. Alkhalifah (King Abdullah University of Science and Technology) (INT. AUD.: 3) Speaker: Xinquan Huang
- 11:10 AM **Physics informed neural learning of wavefields using Gabor basis functions:** T. Alkhalifah, X. Huang (KAUST) (INT. AUD.: 3) Speaker: Tariq Alkhalifah
- 11:35 AM **Automating velocity model building using Fourier neural operators:** G. Huang, S. Crawley, R. Djebbi, J. Ramos-Martinez, N. Chemingui (PGS) (INT. AUD.: 3) Speaker: Guanghui Huang

NS 2 Near Surface Geophysics for Monitoring and Remediation

Session Chairs: Jose Arce and Juan Lorenzo

Location: 351A

Synopsis: Use of geophysical data for monitoring and remediation studies.

- 10:20 AM.... **Time-lapse electrical resistivity and induced polarization monitoring of a simulated ecosystem-scale coastal flooding experiment:** M. B. Adebayo¹, S. Ehosioke¹, E. Emmanuel¹, A. M. Hopple², P. Regier³, J. P. Megonigal², N. D. Ward³, V. L. Bailey³, K. Doro¹ (1. The University of Toledo; 2. Smithsonian Environmental Research Center; 3. Pacific Northwest National Laboratory) (INT. AUD.: 4) Speaker: Moses Adebayo
- 10:45 AM.... **Marine electromagnetic monitoring of submarine landslides:** X. Tu, A. Schultz (Oregon State University) (INT. AUD.: 3) Speaker: Xiaolei Tu
- 11:10 AM **First results of muon tomography of a giant cliff - the Mado rampart:** C. Truffert¹, s. Bouteille¹, B. Le Moigne², K. Samyn² (1. IRIS Instruments; 2. BRGM) (INT. AUD.: 3) Speaker: Cathy Truffert
- 11:35 AM.... **Improving potable water access using Electrical Resistivity Tomography and community engagement to identify groundwater potential zones in the village of Phortse, Sagarmatha National Park (Khumbu), Nepal:** C. T. Cobb¹, J. Gruver¹, S. Acharya¹, S. Baniya², S. Hall³, B. Han¹, E. Hayes¹, K. Neumann¹, K. Nicholson¹, M. Nishikawa³, A. Pandey², S. Sharma², L. Sherpa⁴, E. Subedi² (1. Ball State University; 2. Kathmandu University; 3. Ball State University; 4. Action for Nepal) (INT. AUD.: 2) Speaker: Chasalin Cobb

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

SMT 2 Theoretical Developments in Seismic Modeling and Wave Phenomena 2

Session Chairs: Robert Bloor and Shuang Gao

Location: 372A

Synopsis: Papers in this session cover theoretical developments involving numerical modeling of wavefield simulation in complex media.

- 10:20 AM.... **3D spherical multifocusing stack over an irregular topography: A data-driven approach for high-resolution seismic imaging in complex geological settings:** H. Jodeiri Akbari Fam¹, M. Naghizadeh², O. Yilmaz³, R. S. Smith², N. Esmailzadeh⁴ (1. Geological Survey of Canada; 2. Laurentian University; 3. Anatolian Geophysical; 4. Western Kentucky University) (INT. AUD.: 4) Speaker: Hossein Jodeiri Akbari Fam
- 10:45 AM.... **A 3-D immersed boundary method for acoustic wavefield simulation with irregular surface topography:** X. Li¹, Z. Hu¹, Y. Tian¹, W. Liu¹, Z. Xu¹, G. Yao² (1. Research Institute of Petroleum Exploration and Development-Northwest, PetroChina; 2. China University of Petroleum (Beijing)) (INT. AUD.: 3) Speaker: Xiang Li
- 11:10 AM **Modeling marine vibrator sources in the presence of a time-varying sea surface:** K. Almuteri, J. C. Shragge, P. Sava (Colorado School of Mines) (INT. AUD.: 3) Speaker: Khalid Almuteri
- 11:35 AM **A high order parallel fast sweeping method for eikonal equations:** Y. He¹, Y. Kim² (1. Aramco Research Center - Beijing, Aramco Asia; 2. EXPEC Advanced Research Center, Saudi Aramco) (INT. AUD.: 5) Speaker: Yi He

SP 2 Imaging Case Study

Session Chairs: Gladys Gonzalez and Mingqiu Luo

Location: 371B

- Synopsis: Case studies showing latest advancements in signal processing and high-resolution seismic imaging.*
- 10:20 AM.... **Improving seismic resolution by reprocessing multiple surveys at Na Kika field:** Q. Li¹, R. Chrisman¹, D. Baptiste¹, Y. Liu², D. Patel², C. Rivas Aroni² (1. BP; 2. CGG) (INT. AUD.: 3) Speaker: Qingsong Li
- 10:45 AM.... **Latest imaging advancements in Suriname shallow waters:** J. Yang, Z. Sun, Z. Su, B. Hu, N. Chazalnoel (CGG) (INT. AUD.: 3) Speaker: Jing Yang
- 11:10 AM **The contribution of recent developments in signal processing technology and geology constraint to the reimagining of narrow-azimuth streamer data in the North-eastern Gulf of Mexico:** H. Li, J. Hostetler, N. Perez, H. E. Cuenca, Z. Ge (Schlumberger) (INT. AUD.: 2) Speaker: Hongyan Li
- 11:35 AM..... **High resolution imaging in the Campos Basin using legacy seismic acquisition:** D. Bookes¹, D. Armentrout², M. Cvetkovic³, T. Johnson¹, T. Sullivan² (1. TGS Nopec; 2. TGS Nopec; 3. TGS) (INT. AUD.: 3) Speaker: David Bookes

SS 2 Future of Applied Geophysics: Tools

Session Chairs: Lindsey Heagy and Yaoguo Li

Location: 360A

Synopsis: Emerging tools enabling the use of applied geophysics to solve grand challenge problems.

- 10:20 AM.... **Future of applied geophysics: Distributed sensing:** J. C. Shragge (Colorado School of Mines) (INT. AUD.: 2) Speaker: Jeffrey Shragge
- 10:45 AM.... **The future of drone geophysics:** R. Bell (Drone Geoscience, LLC) (INT. AUD.: 3) Speaker: Ron Bell
- 11:10 AM **Accelerating research with community-driven open-source software for geophysical inversions:** L. Heagy¹, S. Kang², J. Capriotti³, R. Cockett⁴, D. W. Oldenburg¹ (1. University of British Columbia; 2. Stanford University; 3. Geophysical Inversion Facility; 4. Curvenote) (INT. AUD.: 1) Speaker: Lindsey Heagy
- 11:35 AM **Computational Geophysical Acquisition (CGA) as an enabler of geophysical solutions:** M. Zhang, Y. Li (Colorado School of Mines) (INT. AUD.: 1) Speaker: Mengli Zhang

SUS 2 Global Water Crisis

Session Chairs: Chelsea Jolley and Fidelis Onwuagba

Location: 362C

- Synopsis: Novel, low-cost and/or industry knowledge-based solutions presented include standardized reporting of global water resources and addressing water scarcity, salinization, and soil contamination issues.*
- 10:20 AM.... **The Water Resources Management System (WRMS) a non-prescriptive global standard for the estimation and quantification of project based water resources a basis for asset recognition and sustainable water utilization:** A. N. Clay¹, J. Aldrich^{*2} (1. AAPG DEG; 2. Sproule) (INT. AUD.: 1) Speaker: Jeff Aldrich
- 10:45 AM.... **Low-cost manual drilling for groundwater access in West Africa:** W. R. Lindsey (Colorado School of Mines) (INT. AUD.: 1) Speaker: Wyatt Lindsey
- 11:10 AM **WITHDRAWN**
- 11:35 AM **Time-lapse electromagnetic with Gramian:** J. N. Ogunbo¹, A. F. Enow², S. Kim¹ (1. Isung; 2. Korea University) (INT. AUD.: 1) Speaker: Jide Ogunbo

TL 2 Quantitative Analysis and Inversion

Session Chairs: Jennifer Felicity Brush and Kurang Mehta

Location: 370A

- Synopsis: This session highlights the advancements in the quantitative analysis and seismic/waveform inversion toward time-lapse seismic. The focus is on the use of more sophisticated seismic algorithms toward a better monitoring and prediction.*
- 10:20 AM.... **Joint 4D full-waveform inversion using enhanced template-matching objective function:** G. Dutta, E. Saragoussi, X. Cheng, Y. Zhai, C. P. Parekh, D. Vigh (SLB) (INT. AUD.: 3) Speaker: Gaurav Dutta
- 10:45 AM.... **Time-lapse full-waveform inversion with a new gradient-weighting strategy applied to marine seismic data:** K. Xiong¹, D. Lumley² (1. University of Texas at



Tuesday, 29 August

- Dallas; 2. The University of Texas at Dallas) (INT. AUD.: 3) Speaker: Kai Xiong
- 11:10 AM **Inverse 4D seismic timeshifts: How much do our reservoirs rebound?**: J. Stammeijer, D. Mikulencak, C. Bao (Shell) (INT. AUD.: 3) Speaker: Jan Stammeijer
- 11:35 AM **4D joint inversion and "closing the loop" for production history matching and forecasting**: K. Wrobel¹, J. Blangy¹, T. Rolland¹, E. Mutual³, K. Rasmussen² (1. Woodside Energy; 2. Qeye Labs Copenhagen; 3. Qeye Labs Calgary) (INT. AUD.: 3) Speaker: Kelly Wrobel

UNCON 2 Shale and Tight Reservoir Characterization 1

Session Chairs: Meredith Faber and Mohammad Mohanna

Location: 361B

Synopsis: This session focuses on integrated characterization of shales and tight sand reservoirs for development purposes.

- 10:20 AM **Analysis of porosity types in a deeply buried tight sandstone reservoir**: F. A. Almalki¹, A. Rees², M. Mohanna¹ (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 4) Speaker: Fahd Almalki
- 10:45 AM **Mobile oil estimate with integrated method of geochemistry and N₂ adsorption in mudrocks of 3rd Bone Spring Sand and Wolfcamp A, Delaware Basin**: T. Zhang, X. Sun, L. Ko, T. Larson, C. M. Wang (The University of Texas at Austin) (INT. AUD.: 3) Speaker: Tongwei Zhang
- 11:10 AM **Application of time-lapse gas geochemistry for fluid diagnostics and production monitoring**: P. Luo, R. Mesdour, M. Abdelrahman (Saudi Aramco) (INT. AUD.: 4) Speaker: Pan Luo
- 11:35 AM **Cathodoluminescence differentiates sedimentary organic matter types in source-rock reservoirs**: P. Hackley¹, R. McAleer¹, A. Jubb¹, B. Valentine¹, J. Birdwell² (1. U.S. Geological Survey; 2. U.S. Geological Survey) (INT. AUD.: 3) Speaker: Paul Hackley

BH 3 Geomechanics and Geophysics

Session Chairs: Ewerton Araujo and Allan Reyes

Location: 362B

Synopsis: This session focuses on deriving subsurface mechanical properties such as anisotropy, stress characterization, and pore pressure.

- 1:20 PM **Research on electrical source borehole time-domain electromagnetic ultra-far detection method**: Z. Xiao¹, Z. Xiao¹, X. Zhang², Y. Zhang¹, J. Zhao¹, C. Fang¹, K. Shao¹, C. Yao¹, J. Yan¹ (1. China National Logging Corporation; 2. FiberHome Technologies Group) (INT. AUD.: 4) Speaker: Zhanshan Xiao
- 1:45 PM **Near-optimal well-log correlation sequences using reinforcement learning**: H. A. Corzo-Pola¹, S. Saleh², S. Fomel² (1. UT Austin; 2. University of Texas at Austin) (INT. AUD.: 3) Speaker: Hector Corzo-Pola
- 2:10 PM **Estimating maximum horizontal stress magnitudes from borehole diameter measurement data of horizontal wells**: H. Han, M. Van der Baan (University of Alberta) (INT. AUD.: 6) Speaker: Hongxue Han

- 2:35 PM **Uncertainty quantification of anisotropic elastic constants and mud speed using borehole sonic data**: T. Lei¹, K. Walker², A. Donald³, A. Bolshakov², L. Liang¹, R. Prioul¹, E. I. Velez⁴ (1. SLB; 2. Chevron; 3. SLB; 4. SLB) (INT. AUD.: 3) Speaker: Ting Lei

CEMS 3 Controls on Carbonate Depositional Systems

Session Chairs: Matt Buoniconti and Paul Harris

Location: 371A

Synopsis: This session discusses the controls on carbonate depositional patterns using modern analogs, quantitative technology, seismic geomorphology, and other methods.

- 1:20 PM **Hydrodynamic controls on cross-shelf sediment routing and influences on shallow and deep-water carbonate geomorphology, Miocene, northwest shelf of Australia**: X. Janson¹, S. Machin² (1. University of Texas at Austin; 2. Los Alamos National Laboratory) (INT. AUD.: 2) Speaker: Xavier Janson
- 1:45 PM **Machine learning and forward modeling of carbonate sediments - Insights from the Great Bahama Bank**: C. Lopez-Gamundi¹, P. M. Harris², G. Eberli³, S. J. Purkis³ (1. University of Miami; 2. University of Miami; 3. University of Miami) (INT. AUD.: 3) Speaker: Cecilia Lopez-Gamundi
- 2:10 PM **Carbonate depositional facies at the exploration, development, and reservoir modeling-scales: A perspective from the modern**: P. M. Harris, S. J. Purkis (Univ. of Miami) (INT. AUD.: 3) Speaker: Paul Harris
- 2:35 PM **Feedbacks between coastal wadi sedimentation and in situ carbonate production on a narrow mixed shelf, northern Red Sea, Egypt**: B. Rendall, M. Mutti (University of Potsdam) (INT. AUD.: 3) Speaker: Ben Rendall

EMP 1 EM Methods 1

Session Chairs: David Andreis and Antony Price

Location: 372B

Synopsis: Recent advance and application of EM.

- 1:20 PM **Integral equation based wellbore preconditioner for 3D electromagnetic response modeling**: M. S. Elliott², M. Everett¹ (1. Texas A&M University; 2. Texas A&M University) (INT. AUD.: 3) Speaker: Marcus Elliott
- 1:45 PM **Fast 3D electromagnetic scattering modeling of multiscale problem in a layered medium using Integral Equation Method**: D. Wang¹, Q. Liu² (1. Purdue University; 2. Duke University) (INT. AUD.: 3) Speaker: Dezhi Wang
- 2:10 PM **The Interferographic TEM (ITEM) method: Array beamforming for TEM field compaction and resolution improvement**: B. James¹, J. Stoll², K. Noh³, A. Swidinsky³ (1. Electromagnetic Geophysical Imaging Solutions, LLC; 2. Mobile Geophysical Technologies, GmbH; 3. University of Toronto) (INT. AUD.: 4) Speaker: Bryan James
- 2:35 PM **Full sensitivity analysis on anisotropy parameters for magnetotelluric (MT) using elementary effects method**: Y. Zhou¹, L. Gross², D. Yang¹ (1. Southern University of Science and Technology; 2. The University of Queensland) (INT. AUD.: 4) Speaker: Yan Zhou

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

ENEC 3 The Power of Integration: Turning Challenges into Opportunities

Session Chairs: Peter Lanzarone and Luis Valencia Fermin

Location: 361A

Synopsis: Explore emerging concepts, challenges, and opportunities in hydrocarbon exploration through integration of multidisciplinary techniques in the Wilcox and East Coast India.

1:20 PM..... **Application of interpolation to regional 2D data to produce 500,000 km² of 3D data to visualise exploration plays along the East Coast of India:** D. M. Davies¹, A. M. King², S. Notiyal³, A. Kumar⁴ (1. TGS; 2. AMK Seismic Ltd; 3. TGS; 4. DGH) (INT. AUD.: 1) Speaker: Daniel Davies

1:45 PM..... **Forensic characterization of the Wilcox: A new multi-disciplinary approach to support stratigraphic correlation sediment dispersal mapping and reservoir zonation:** T. Pearce², M. Franzel³, E. Daneshvar¹, J. Hirani³, D. Riley⁴, N. Champion⁵, G. Hildred² (1. Future Geoscience Limited; 2. Chemostrat Inc; 3. Chemostrat Ltd; 4. Chemostrat Ltd; 5. Petrostrat Ltd) (INT. AUD.: 4) Speaker: Timothy Pearce

2:10 PM..... **Revisiting the onshore Lower Wilcox Group: Implications for the development of subsurface low carbon energy solutions in the Gulf Coast region:** L. G. Moscardelli¹, V. Smith², A. Hessler³, I. Olariu¹, M. A. Lorente², E. Sivil¹, X. Liu² (1. Bureau of Economic Geology; 2. Ellington Geological Services; 3. The Deep Time Institute) (INT. AUD.: 3) Speaker: Lorena Moscardelli

2:35 PM..... **Integrated wellsite biostratigraphy and chemostratigraphy: A multi-disciplinary approach for drilling the Wilcox:** T. Pearce², P. A. Cornick², E. Daneshvar¹, P. S. O'Neill⁴, N. Champion³, D. Riley⁴, G. Hildred⁵ (1. Future Geoscience Limited; 2. Future Geoscience Ltd; 3. Petrostrat Ltd; 4. Chemostrat Ltd; 5. Chemostrat Inc) (INT. AUD.: 4) Speaker: David Riley

FWI 1 Case Studies 1

Session Chairs: Tariq Alkhalifah and Young Ho Cha

Location: 370A

Synopsis: Full waveform inversion case studies and workflows in complex salt and hard contrast environment including application to OBN data.

1:20 PM..... **Improving imaging of subsalt reservoirs through elastic FWI: A case study of the Mars/Ursa fields:** T. Noble¹, J. Wang¹, W. Gouveia¹, S. Mothi², S. Huang², V. Vandrasi², Y. Yang², G. Soto¹, J. Durand¹, E. Beal¹, A. Malone³, T. Yang³, C. Gautre¹, M. Tatanova¹, J. Thornton¹, A. Abdel Aziz¹, C. Bressers¹ (1. Shell US; 2. CGG; 3. BP plc) (INT. AUD.: 3) Speaker: Todd Noble

1:45 PM..... **Improving reservoir imaging using long-offset OBN data: A case study from Conger field, Gulf of Mexico:** B. Deng¹, H. Su¹, B. Bonala¹, J. Mei¹, J. Lewis², E. Ortiz², W. Martins² (1. CGG; 2. Hess Corp Houston) (INT. AUD.: 4) Speaker: Bin Deng

2:10 PM..... **Resolving geological complexity with legacy streamer survey: Potiguar 3D offshore Brazil case study:** S. Yong, T. Johnson, M. Cvetkovic, B. Soelistijo, L. Ge (TGS) (INT. AUD.: 3) Speaker: Seet Li Yong

2:35 PM..... **Quantifying depth uncertainty in deepwater Gulf of Mexico: A systematic approach:** A. Babalola¹, E. Townend¹, J. Wang¹, K. Bianchini¹, N. Chazalnoel², F. Rozario², B. Wray² (1. Shell Oil Company; 2. CGG) (INT. AUD.: 3) Speaker: Afolabi Babalola

INT 3 Structural Interpretation

Session Chairs: Francesca Fazzari and Rui Zhang

Location: 362A

Synopsis: The study of the tectonic history, past geological environments and events.

1:20 PM..... **A comprehensive study of the inversion structure in Bongor Basin:** G. Xiao, Y. Xiao, K. Xiao, Y. Du, Y. Hu (Research Institute of Petroleum Exploration and Development of CNPC) (INT. AUD.: 1) Speaker: Gaojie Xiao

1:45 PM..... **Syn-rift and pre-rift section in the Colorado Basin, offshore Argentina: An integration of new long offset 2D seismic reflection data with potential fields and vintage seismic refraction data:** S. DeVito¹, D. E. Bird², M. Cvetkovic³ (1. Great River Exploration; 2. Bird Geophysical; 3. TGS) (INT. AUD.: 3) Speaker: Dale Bird

2:10 PM..... **Bedded salt formations of the Delaware Basin and their significance for salt cavern placement:** C. Schuba, L. G. Moscardelli, T. P. Dooley, K. Hattori (The University of Texas at Austin) (INT. AUD.: 3) Speaker: C. Nur Schuba

2:35 PM..... **Structural interpretation of seismic images with volumetric hypersurface curvatures:** A. Tertois², I. Ravve¹, Z. Koren³ (1. Aspen Technology; 2. Aspen Technology; 3. Aspen Technology) (INT. AUD.: 3) Speaker: Igor Ravve

INTD 3 Data Across Disciplines

Session Chairs: Andréa Darrh and Alyousuf Taqi

Location: 372C

Synopsis: Thinking outside the box: Creative use of data across disciplines.

1:20 PM..... **Advances in digital outcrop model virtual reality field trip design:** R. Dommissé¹, C. Kerans¹, J. Ayangade³, D. Hodgetts² (1. University of Texas at Austin; 2. VRGeoscience Limited; 3. Craytive Technologies) (INT. AUD.: 1) Speaker: Robin Dommissé

1:45 PM..... **The first microbial gene exploration technique in the Lufeng Depression, PRMB, South China Sea, to achieve a breakthrough in the exploration of the Palaeocene Enping Formation:** W. Luo (CNOOC (China) Limited Shenzhen Branch) (INT. AUD.: 2) Speaker: Wei Luo

2:10 PM..... **Airborne Gravity Gradiometry: a case study for integrated interpretation from the Upper Assam Basin in Northeast India:** S. Singha, P. K. Singh, A. Kumar, K. Dasgupta (OIL INDIA LIMITED) (INT. AUD.: 4) Speaker: Subrata Singha

2:35 PM..... **Exploring disparate data sources in upstream oil and gas with ChatGPT:** K. P. Lomker (2 Texas Gals) (INT. AUD.: 2) Speaker: Kendall Lomker

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

MLDA 3 Uncertainty Quantification

Session Chairs: Anatoly Baumstein and Felix Herrmann

Location: 351B

Synopsis: Assessing robustness and uncertainty in machine learning applications.

1:20 PM..... **Perceptual quality-based model training under annotator label uncertainty:** C. Zhou, M. Prabhushankar, G. AlRegib (Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Chen Zhou

1:45 PM..... **Counterfactual uncertainty for high dimensional structured datasets:** P. Chowdhury, A. Mustafa, M. Prabhushankar, G. AlRegib (Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Prithwiji Chowdhury

2:10 PM..... **Modeling fault label uncertainty in 3D seismic volumes for machine learning workflows:** A. Mustafa¹, R. Rastegar², G. AlRegib¹ (1. Georgia Institute of Technology; 2. Occidental Petroleum) (INT. AUD.: 3) Speaker: Ahmad Mustafa

2:35 PM..... **Probabilistic seismic interpolation with the implicit prior of a deep denoiser:** M. Ravasi (KAUST) (INT. AUD.: 3) Speaker: Matteo Ravasi

NS 3 Imaging, Inversion, and Machine Learning in Near Surface Geophysics 3

Session Chairs: Joseph Capriotti and Chester Weiss

Location: 351A

Synopsis: New methods and case studies for inversion and machine learning with near surface geophysical data.

1:20 PM..... **InSAR interferogram filtering study for field surface based on a geophysical filtering method:** W. Peng, X. Huang, Z. Wang (Southwest Petroleum University) (INT. AUD.: 4) Speaker: Wenshu Peng

1:45 PM..... **High-resolution electrical resistivity tomography system to detect small fissures or voids:** R. A. Geiger, J. Bryant (Wavemode) (INT. AUD.: 3) Speaker: Robert Geiger

2:10 PM..... **Estimating subsurface geostatistical characteristics from surface-based GPR reflection data using a deep learning approach:** Y. Liu, J. Irving, K. Holliger* (University of Lausanne) (INT. AUD.: 4) Speaker: Klaus Holliger

2:35 PM..... **Near-surface velocity estimation for a complex land environment with a shallow salt layer:** D. Borisov¹, Y. Zhang², J. Ivanov³, R. D. Miller⁴, S. Sloan⁵ (1. Kansas Geological Survey; 2. Kansas Geological Survey; 3. Kansas Geological Survey; 4. Kansas Geological Survey; 5. US Army Engineer Research & Development Center) (INT. AUD.: 3) Speaker: Yanwei Zhang

SMT 3 Theoretical Developments in Seismic Modeling and Wave Phenomena 3

Session Chairs: Pierre-Olivier Ariston and Maksym Kryvohuz

Location: 372A

Synopsis: Papers in this session cover theoretical developments involving advanced numerical modeling methods.

1:20 PM..... **Meta-PINN: Meta learning for improved neural network wavefield solutions:** S. Cheng, T. Alkhalifah (King

Abdullah University of Science and Technology) (INT. AUD.: 5) Speaker: Shijun Cheng

1:45 PM..... **Target-oriented wavefield calculation using Recursive Patched Green Functions:** E. Fagua Duarte¹, J. Schwarzrock¹, D. Da Silva¹, J. M. Araujo¹, M. Ferreira² (1. Universidade Federal do Rio Grande do Norte; 2. Trinity College - Dublin) (INT. AUD.: 3) Speaker: Edwin Fagua Duarte

2:10 PM..... **Structure-constrained scattered data fitting with radial basis functions:** T. Lei¹, H. Wang¹, C. Wu², K. Yang¹, J. Xiang³ (1. Tongji University; 2. Tongji University; 3. Tongji University) (INT. AUD.: 5) Speaker: Ting Lei

2:35 PM..... **Autoregressive shaping regularization:** S. Fomel (University of Texas at Austin) (INT. AUD.: 3) Speaker: Sergey Fomel

SP 3 Elastic and Diffraction Imaging

Session Chairs: Bin Wang and Zedong Wu

Location: 371B

Synopsis: Advanced techniques for elastic migration and diffraction imaging.

1:20 PM..... **Elastic wave reverse time migration with dynamic focused beams for weak anisotropic media:** N. Qin (Sinopec Shengli Oilfield Geophysical Research Institute) (INT. AUD.: 5) Speaker: Ning Qin

1:45 PM..... **The need of elastic RTM for elastic FWI models:** H. Huang¹, Z. Wu¹, X. Xiao¹, Z. Zhang², P. Wang³ (1. CGG; 2. CGG; 3. CGG) (INT. AUD.: 3) Speaker: Hui Huang

2:10 PM..... **Separation and imaging of deep seismic diffractions:** Y. Liu (Aramco Research Center - Beijing, Aramco Asia) (INT. AUD.: 2) Speaker: Yujin Liu

2:35 PM..... **Using diffraction imaging on a Santos Basin Pre-salt carbonate reservoir: The Tupi Ocean-bottom nodes case:** C. de Souza Barros², N. Martinho Cruz¹, D. Potomati Vaccaro Nascimento¹, M. P. De Almeida Junior³, D. Dos Santos Marques¹, J. M. Nunes Cruz¹, P. S. Sales¹, A. Da Cruz Nascimento¹, C. E. de Borges Salles Abreu¹, D. Dopkin³, S. Singh³ (1. Petrobras S.A.; 2. Aspen Technology; 3. Aspen Technology) (INT. AUD.: 6) Speaker: Caio de Souza Barros

SS 3 Recent Advances and the Road Ahead: Hot Topics in Geoscience 1

Session Chairs: Sergio Chávez-Pérez and Sherif Mahmoud

Location: 360A

Synopsis: Traditional session that opens the technical program with hot topics. All speakers are invited, and the selected topics aim at being innovative and enlightening.

1:20 PM..... **Smart DAS uphole acquisition system: Bridging the gap between surface seismic and borehole geophysics for imaging and monitoring under complex near surface:** A. Bakulin, I. Silvestrov, R. Smith, P. Golikov (Saudi Aramco) (INT. AUD.: 1) Speaker: Andrey Bakulin

1:45 PM..... **Acquisition, processing, and interpretation improvements in using land seismic data for QI:** C. Stork, C. Morgan (Land Seismic Noise Specialists) (INT. AUD.: 2) Speaker: Christof Stork

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

2:10 PM..... **The CCUS landscape and vital role of geophysics:** A. Tura¹, Y. Ning² (1. Colorado School of Mines; 2. Colorado School of Mines) (INT. AUD.: 1) Speaker: Ali Tura

2:35 PM..... **Journey of full wavefield inversion towards practical applications:** P. S. Routh (ExxonMobil) (INT. AUD.: 1) Speaker: Partha Routh

SS 4 Geoscientists without Borders: Applied Geoscience for Humanitarian Need 1

Session Chairs: Bethany Burton and Cengiz Esmersoy

Location: 362C

Synopsis: Geoscientists are helping communities in Nigeria, Guatemala, Egypt, and Nepal explore for and produce water and to prepare for natural hazards.

1:20 PM..... **Installation and operation of a regional seismic monitoring array in Guatemala:** S. L. Roche², R. Yani³, D. Castro³, H. Chen³, G. Castellanos³, O. Grijalva³, J. Garcia³, W. Jimenez³, B. Coc³, I. Ligorria³, W. Perez³, C. Perez³, J. Tojil³, D. Calan³, L. Arriola³, B. Cosenza-Murallas¹, D. Barral¹ (1. USAC; 2. The University of Tulsa College of Engineering and Natural Sciences; 3. INSIVUMEH) (INT. AUD.: 2) Speaker: Steven Roche

1:45 PM..... **Integration of geophysical techniques for groundwater exploration in basement terrains: A case study from Southern Sinai, Egypt:** M. Ahmed¹, M. Elshalkany¹, W. Sauck², A. Abouelmagd³, S. Mansour⁴, I. El-Nekhiely³, M. Abdelfattah⁴ (1. Texas A&M University - Corpus Christi; 2. Western Michigan University; 3. Suez Canal University; 4. Port Said University) (INT. AUD.: 6) Speaker: Mohamed Ahmed

2:10 PM..... **NepalEEW: Testing the feasibility of a low-cost earthquake-early warning in Nepal:** V. M. Kuna (Institute of Geophysics AS CR, Prague, Czech Republic) (INT. AUD.: 2) Speaker: Vaclav Kuna

2:35 PM..... **WITHDRAWN**

UNCON 3 Applied Geosciences for Shale and Tight Reservoirs 1

Session Chairs: Claudia Hackbarth and Joel Le Calvez

Location: 361B

Synopsis: This session focuses on applied studies in geosciences for unconventional.

1:20 PM..... **Fracture characterization in shale and tight reservoirs using horizontal well sonic logging data:** P. Liu¹, N. Li¹, H. Wu¹, H. Zhao², M. Zhang², K. Wang¹, H. Fan² (1. Research Institute of Petroleum Exploration and Development; 2. China University of Petroleum (Beijing)) (INT. AUD.: 2) Speaker: Peng Liu

1:45 PM..... **NMR T₂ Cutoff Models for Tight Gas Sandstone Reservoir:** A. A. Alkhalidi¹, J. Gao², G. Hursan³, H. Kwak² (1. Saudi Aramco; 2. Saudi Aramco; 3. Saudi Aramco) (INT. AUD.: 3) Speaker: Abdullah Alkhalidi

2:10 PM..... **Seismic-based workflow for quantitative evaluation of fault stability in shale gas reservoirs: A case study:** M. Li, X. Wang, X. Yang, F. Wu, S. Deng, D. Zang, M. Chen, C. Huang, X. Xu (BGP) (INT. AUD.: 1) Speaker: Min Li

2:35 PM..... **Experimental and mathematical simulation of organic matter transformation processes in source rock formations:** D. Gafurova¹, A. Khlyupin², A. Kalmykov³, D.

Korost³, K. Al-Ramadan⁴ (1. KFUPM; 2. Moscow Institute of Physics and Technology; 3. Lomonosov Moscow State University; 4. KFUPM) (INT. AUD.: 4) Speaker: Dina Gafurova

BH 4 Near-wellbore Imaging and Structural Modeling

Session Chairs: Elia Haddad and Kristoffer Walker

Location: 362B

Synopsis: The abstracts include the analysis of multi-dimensional data acquired to get a better understanding of dips, fractures, and near wellbore modeling.

3:40 PM..... **Have a SEAT-Statistical Eigenvector Analysis Technique (SEAT) applied borehole dip data:** Y. Gan², A. Petrik¹, G. Cedillo³, B. Ruehlicke² (1. Eriksfiord AS; 2. Eriksfiord Inc; 3. BP America) (INT. AUD.: 3) Speaker: Yuqian (Philomena) Gan

4:05 PM..... **Borehole Stoneley wave response to hydraulic fractures: Modeling and field evaluation:** X. Tang¹, H. Li², Y. Su¹ (1. China University of Petroleum; 2. Tianjin branch, CNOOC) (INT. AUD.: 3) Speaker: Xiaoming Tang

4:30 PM..... **Horizontal well S-wave imaging method and application:** H. Wu³, P. Liu³, N. Li³, Y. Huang², H. Zhang³, W. Zhang¹, H. Tian³, Y. Li³, Z. Feng³ (1. Research Institute of Petroleum Exploration and Development; 2. Southwestern Division, China Petroleum Logging CO. LTD.; 3. Research Institute of Petroleum Exploration and Development, PetroChina) (INT. AUD.: 2) Speaker: Hongliang Wu

4:55 PM..... **Fracture detection and imaging through real and synthetic borehole seismic data:** A. J. Alzayer¹, C. Tsingas², A. Dawood¹, A. Al-Ali¹ (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 2) Speaker: Ali Alzayer

CEMS 4 Diagenesis and Pore Systems in Carbonate Reservoirs

Session Chairs: Franek Hasiuk and Conxita Taberner

Location: 371A

Synopsis: This session highlights the mechanisms and predictive controls on carbonate diagenetic overprints, and methods to quantify the resulting pore networks and reservoir properties.

3:40 PM..... **Regionally extensive hydrothermal dolomitization through fault-controlled mechanism: Jurassic carbonates, Saudi Arabia:** M. Alqattan¹, R. Goldstein² (1. Saudi Aramco; 2. University of Kansas) (INT. AUD.: 3) Speaker: Mohammed Alqattan

4:05 PM..... **Digital rock modeling to quantify scale dependence of petrophysical measurements in reservoirs with Thalassinoides:** H. Eltom¹, R. Goldstein² (1. KFUPM; 2. KU) (INT. AUD.: 3) Speaker: Hassan Eltom

4:30 PM..... **Sequence stratigraphic control on excess-permeability distribution in a Pre-Salt ridge mound system, Santos Basin, Brazil:** M. Zeller¹, D. W. Hunt¹, C. Aizprua⁴, L. E. Gomis³, A. S. Chandler², O. Wennberg¹ (1. Equinor ASA; 2. Equinor ASA; 3. Equinor ASA; 4. Equinor ASA) (INT. AUD.: 3) Speaker: Michael Zeller

4:55 PM..... **A novel method for evaluating the saturation of fracture-vuggy carbonate reservoirs:** H. Tian (Research

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

Institute of Petroleum Exploration and Development, PetroChina) (INT. AUD.: 2) Speaker: Han Tian

EMP 2 EM Methods 2

Session Chairs: Jiefu Chen and Nestor Cuevas

Location: 372B

Synopsis: Recent advance and application of EM.

- 3:40 PM..... **Magnetotelluric inversion using supervised learning trained with random smooth geoelectric models:** L. Liu¹, B. Yang², Y. Xu², D. Yang¹ (1. Southern University of Science and Technology; 2. Zhejiang University) (INT. AUD.: 3) Speaker: Lian Liu
- 3:40 PM..... **Airborne electromagnetic depth sounding using long range fixed wing drones:** J. B. Stoll (Mobile Geophysical Technologies GmbH) (INT. AUD.: 3) Speaker: Johannes Stoll
- 3:40 PM..... **Three-dimensional inversion of frequency domain controlled-source electromagnetic data with the presence of steel casings:** H. Ying, D. Yang (Southern University of Science and Technology) (INT. AUD.: 5) Speaker: Hu Ying
- 3:40 PM..... **Reservoir resistivity assessment, best practices and pitfalls:** D. Baltar (EMGS) (INT. AUD.: 4) Speaker: Daniel Baltar

FWI 2 Case Studies 2

Session Chairs: Inma Dura-Gomez and John Washbourne

Location: 370A

Synopsis: Case studies on extracting multi-parameter in clastic setting and 4D applications.

- 3:40 PM..... **AVA parameters from FWI: Field results:** L. Frahm¹, R. Bell¹, R. Davy¹, J. Morgan¹, M. Warner¹, N. Bangs², R. Aria³, S. Kodaira³, S. Henrys⁴, H. A. Debens⁵ (1. Imperial College London; 2. UTIG; 3. JAMSTEC; 4. GNS; 5. Woodside Energy Ltd) (INT. AUD.: 3) Speaker: Laura Frahm
- 4:05 PM..... **Elastic full-waveform inversion and FWI-Imaging on an on-shore dataset:** B. Gong, F. Yuan, J. Latchman, P. Eick, Z. Meng (In-Depth Geophysical, Inc.) (INT. AUD.: 3) Speaker: Bin Gong
- 4:30 PM..... **Impact of full-wavefield inversion based high-resolution velocity model building (VMB) and Q imaging on exploration and development at Guyana Stabroek:** F. Song (ExxonMobil) (INT. AUD.: 3) Speaker: Fuxian Song
- 4:55 PM..... **Structural and time-lapse Imaging through gas clouds via FWI at Eldfisk Field, North Sea:** Z. Li¹, L. Bencherif-Soerensen², P. Folstad², B. Macy¹, S. Shaw¹, B. Roy¹ (1. ConocoPhillips; 2. ConocoPhillips Norge) (INT. AUD.: 3) Speaker: Zhengxue Li

INT 4 Sedimentary Interpretation

Session Chairs: Shuvajit Bhattacharya and Alex Martinez

Location: 362A

Synopsis: The analysis of the formation and evolution history of a sedimentary basin.

- 3:40 PM..... **The Sleeping Giant: Maiden survey in deep offshore Andaman reveals interesting subsurface**

architecture: R. M. Joshi, D. Mahata (Oil India Limited) (INT. AUD.: 3) Speaker: Ritesh Joshi

- 4:05 PM..... **Assessment of prograding fluvial sequences and mass transport complexes within a complex deepwater sedimentary delivery system:** S. Wharton (Subsurface Imaging Company Limited) (INT. AUD.: 5) Speaker: Stanley Wharton
- 4:30 PM..... **Applying seismic sedimentology to restore Neogene Lenghu and Quaternary Sanhu sedimentary facies in Qaidam Basin, Northwestern China:** Z. Xu¹, G. Long², Y. Wang², H. Zeng³, B. Wang², J. Zhu² (1. PetroChina Research Institute of Petroleum Exploration and Development; 2. PetroChina Qinghai Oilfield Company; 3. The University of Texas at Austin) (INT. AUD.: 5) Speaker: Zhaohui Xu
- 4:55 PM..... **The Guyana-Suriname Basin: Cretaceous Paleo-margin and the limits of exploration:** K. Reuber, R. Etherington, M. Cvetkovic (TGS) (INT. AUD.: 3) Speaker: Kyle Reuber

MLDA 4 Seismic Processing and Imaging 1

Session Chairs: Mehdi Aharchaou and Adam Halpert

Location: 351B

Synopsis: Enhanced seismic processing and image enhancement with machine learning methods.

- 3:40 PM..... **Anti-aliasing seismic data interpolation by dip-informed self-supervised learning:** S. Wang¹, X. Wu³, J. Chen² (1. University of Houston; 2. University of Houston; 3. University of Houston) (INT. AUD.: 3) Speaker: Shirui Wang
- 4:05 PM..... **3D seismic image-to-image translation:** X. Song (BP) (INT. AUD.: 2) Speaker: Xiaolei Song
- 4:30 PM..... **Bayesian variational autoencoders for seismic wavelet extraction:** A. Ghanim, R. Durall Lopez, N. Ettrich (Fraunhofer ITWM) (INT. AUD.: 4) Speaker: Ammar Ghanim
- 4:55 PM..... **X-DeepONet: An eXtended deep operator network for microseismic source localization:** E. Haghghat², U. Waheed^{*1}, G. Karniadakis³ (1. King Fahd University of Petroleum and Minerals; 2. Massachusetts Institute of Technology; 3. Brown University) (INT. AUD.: 2) Speaker: Umair bin Waheed

NS 4 Seismic Methods in Near Surface Geophysics

Session Chairs: Amber Onufer and Tatiana Pertuz

Location: 351A

Synopsis: The use of seismic methods and distributed acoustic sensing (DAS) in near surface geophysics.

- 3:40 PM..... **The effect of surface wave low-frequency component processing methods to dispersion curve inversion:** L. Li, w. cao, X. Huang (Southwest Petroleum University) (INT. AUD.: 6) Speaker: Luo Li
- 4:05 PM..... **WITHDRAWN**
- 4:30 PM..... **Enhancing high frequency vibroseis images of near surface: Uncorrelated is key:** R. D. Miller¹, Z. Lawrence³, A. A. Martinez², J. Ivanov⁴, D. Borisov⁵ (1. Kansas Geological Survey; 2. ExxonMobil; 3. ExxonMobil Upstream Integrated Solutions Company; 4. Kansas

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

Geological Survey; 5. Kansas Geological Survey)
(INT. AUD.: 3) Speaker: Richard Miller
4:55 PM..... **Capabilities and limitations of distributed acoustic sensing for near-surface characterization:** Y. Abukrat, P. Sinitsyn, M. Reshef, A. Lellouch (Tel Aviv University) (INT. AUD.: 3) Speaker: Yarin Abukrat

SMT 4 Theoretical Developments in Seismic Modeling and Wave Phenomena 4

Session Chairs: Gilles Lambare and Rami Nammour

Location: 372A

Synopsis: Papers in this session cover theoretical developments involving advanced numerical modeling methods for wave propagation.

3:40 PM..... **The modeling and simulation of Scholte wave propagation at fluid-solid interface:** Z. Wang, R. Huang*, G. Song (Southwest Petroleum University) (INT. AUD.: 4) Speaker: Rong Huang

4:05 PM..... **Simulation of seismic waves in the fluid-solid coupled thermoelastic medium:** S. Yang, G. Wu, J. Shan, H. Liu (China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Sen Yang

4:30 PM..... **Numerical experiments to characterize P-wave attenuation in partially saturated non-isothermal porous media:** N. D. Arenas¹, G. B. Savioli¹, J. E. Santos*¹, J. Carcione² (1. Universidad de Buenos Aires; 2. Hohai University) (INT. AUD.: 3) Speaker: Juan Santos

4:55 PM..... **Grid-dispersion and stability of the high-order enriched Galerkin method:** J. D. De Basabe¹, M. Sen², J. Vamaraju³ (1. CICESE; 2. The University of Texas at Austin; 3. Shell Global Solutions USA Inc) (INT. AUD.: 3) Speaker: Jonas De Basabe

SP 4 Least-squares Imaging and Q-migration

Session Chairs: Mike Cogan and Lei Zhuo

Location: 371B

Synopsis: Advanced techniques for high-resolution imaging, including least-squares and Q-compensated migration.

3:40 PM..... **An application of joint least-square multiple imaging on simultaneously acquired VSP and OBN dataset:** X. Li, H. Chen, Y. Zhang, A. Tran, P. Sun, S. Zhang (BGP) (INT. AUD.: 4) Speaker: Xiang Li

4:05 PM..... **High-resolution imaging using Gaussian beam point-spread-function deconvolution:** J. Yang¹, J. Huang¹, H. Zhu², G. Mcmechan² (1. China University of Petroleum (East China); 2. The University of Texas at Dallas) (INT. AUD.: 3) Speaker: Jidong Yang

4:30 PM..... **High-resolution imaging using least-squares migration in the image domain (LSMi) for a marine distributed acoustic sensing (DAS) 3D-VSP:** A. Y. Sayed¹, F. Twynam¹, R. Bachrach¹, M. Cavalca¹, L. Leon¹, M. Shadrina¹, Q. Li², R. Biswas², D. Tebo², S. Buist² (1. SLB; 2. BP) (INT. AUD.: 2) Speaker: Ali Sayed

4:55 PM..... **Nonlinear least-squares reverse time migration using a modeling engine with vector reflectivity:** H. Wu, S. Lu* (Sun Yat-sen University) (INT. AUD.: 3) Speaker: Shaoping Lu

SS 5 Recent Advances and the Road Ahead: Hot Topics in Geoscience 2

Session Chairs: Sergio Chávez-Pérez and Sherif Mahmoud

Location: 360A

Synopsis: Traditional session that opens the technical program with hot topics. All speakers are invited, and the selected topics aim at being innovative and enlightening.

3:40 PM..... **Overview of physics-informed machine learning inversion of geophysical data:** G. Schuster², S. Feng¹ (1. Los Alamos National Laboratory; 2. University of Utah) (INT. AUD.: 3) Speaker: Gerard Schuster

4:05 PM..... **Recent advances and the road ahead in high performance computing for seismic imaging:** J. Etgen (BP) (INT. AUD.: 3) Speaker: John Etgen

4:30 PM..... **Mapping critical mineral resources using multiphysics inversion:** J. Sun, X. Wei (University of Houston) (INT. AUD.: 3) Speaker: Jiajia Sun

4:55 PM..... **Results of the 2022 SEG Research Committee hot topics survey:** T. Ore¹, E. Martin², I. I. Rubio-Cisneros³, A. J. Girard², J. Ma⁴, S. Kanakiya⁵, O. A. Sanuade⁶, A. Titov⁷, R. de Souza⁸ (1. West Virginia University; 2. Colorado School of Mines; 3. Teotl Geociencias e Ingeniería Aplicada; 4. Halliburton Far East Pte. Ltd; 5. University of Houston; 6. Oklahoma State University; 7. Fervo Energy; 8. Avanaade Australia) (INT. AUD.: 1) Speaker: Tobi Ore

SS 6 Use of Seismic Data for Critical Mineral Exploration

Session Chairs: Ana Curcio and Anaïs Lavoue

Location: 361A

Synopsis: Methodology and case studies on use of active and/or passive seismic methods for critical mineral exploration.

3:40 PM..... **Sparse 3D seismic survey over the Olympic Dam IOCG deposit:** H. Schijns¹, J. Townsend², D. Haddow³, M. Shawcross³, K. Ehrig³ (1. BHP; 2. Innovation & Ventures, BHP; 3. Olympic Dam, BHP) (INT. AUD.: 3) Speaker: Heather Schijns

4:05 PM..... **Active and passive seismic imaging of Larder Lake gold belt, Ontario:** M. Naghizadeh¹, R. S. Smith², K. Rubinghi¹, R. Sherlock¹, J. Ayer¹, B. Lafrance¹, s. cheraghi¹, d. snyder¹, J. Vergne³, D. Hollis³, A. Mordret³ (1. Laurentian University; 2. Laurentian University; 3. Sisprobe SAS) (INT. AUD.: 3) Speaker: Mostafa Naghizadeh

4:30 PM..... **Multi-scale insights into the high-grade Mt Weld REE deposit from 2D and 3D active seismic survey data:** T. Bell¹, G. Turner*¹, M. Megebray¹, G. Bhat², B. Knell² (1. HiSeis Pty Ltd; 2. Lynas Rare Earths Ltd) (INT. AUD.: 2) Speaker: Greg Turner

4:55 PM..... **WITHDRAWN**

SS 7 Geoscientists without Borders: Applied Geoscience for Humanitarian Need 2

Session Chairs: Bethany Burton and Cengiz Esmersoy

Location: 362C

Synopsis: Geoscientists are helping communities in Africa and Myanmar with low-cost water exploration, production, and earthquake hazard assessment.

3:40 PM..... **Low-cost instrumentation for groundwater management in West Africa:** J. C. Shragge¹, R.

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

Krahenbuhl¹, A. Swidinsky², J. Bradford¹, E. Kounika³, N. Yalo³ (1. Colorado School of Mines; 2. University of Toronto; 3. University d'Abomey-Calavi) (INT. AUD.: 1)
Speaker: Jeffrey Shragge

4:05 PM..... **WITHDRAWN**

4:30 PM..... **Contributions of Dense Nodal Seismic Arrays to Earthquake Hazard Assessment in Yangon, Myanmar:** P. Persaud¹, R. Ghose², M. Thant³, Z. Kyaw³, K. Win³, T. Oo⁴, Z. Win³, P. Lwin³, A. Min³, T. Thiha³, T. Oo³, T. Yadanar³, M. Khant³, P. Than³ (1. University of Arizona; 2. Louisiana State University; 3. University of Yangon; 4. Department of Applied Geology) (INT. AUD.: 4)
Speaker: Patricia Persaud

4:55 PM..... **Provision of potable water to communities in northeastern Ghana:** E. Dzikunoo (University of Ghana) (INT. AUD.: 4) Speaker: Elikplim Dzikunoo

SS 8 SEPM Research Symposium: The Sedimentary Response to Changing Climate

Session Chairs: Peter Flaig and Howard Harper

Location: 372C

Synopsis: *This session presents studies that identified changes in sediments and stratigraphy that are correlated with changes in the local or global climate.*

3:40 PM **Climate change impacts on low-lying atoll islands modulated by sediment transport pathways, Kiribati and Tokelau, Central Pacific:** G. Rankey¹, M. Perez², T. Uriam³ (1. University of Kansas; 2. Department of Economic Development, Natural Resources and Environment; 3. Ministry of Information, Communications & Transport) (INT. AUD.: 3)
Speaker: Gene Rankey

4:05 PM..... **A multidisciplinary study of the Paleocene-Eocene thermal maximum (PETM) at the Sabinetown-Carrizo transition near Bastrop, Texas:** K. Garcia¹, P. P. Flaig², C. Denison⁴, T. Demchuk³, T. Adatte⁵, J. Spangenberg⁵, S. Castelltort⁶, L. G. Moscardelli² (1. University of Texas at Austin; 2. University of Texas at Austin; 3. PetroStrat Inc.; 4. Astra Stratigraphics; 5. University of Lausanne; 6. University of Geneva) (INT. AUD.: 2)
Speaker: Katherine Garcia

4:30 PM..... **Eagle Ford Shale strata in East Texas Basin near Dallas: A dynamic depositional setting in the southern Western Interior Seaway:** J. Birdwell, J. A. Flaum, K. L. French (U.S. Geological Survey) (INT. AUD.: 2)
Speaker: Justin Birdwell

4:55 PM..... **Dynamic paleoclimatic, glacioeustatic, and biotic change within a Late Paleozoic mixed carbonate-siliciclastic system, Paradox Basin, southeast Utah:** S. White², S. C. Atchley², G. E. Stinchcomb¹, S. Dworkin², E. Petsios² (1. The University of Memphis; 2. Baylor University) (INT. AUD.: 2) Speaker: Stephanie White

UNCON 4 Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 1

Session Chairs: Holly Meier and Chandramani Shrivastava

Location: 361B

Synopsis: *This session focuses on multidisciplinary techniques including the application of data science within unconventional.*

3:40 PM..... **Accurate characterization and modeling of heterogeneous shale samples based on deep learning: Implication for upscaling:** Y. Wu¹, K. Liu¹, C. Lin¹, C. Dong¹, S. An², P. Ma¹ (1. China University of Petroleum (East China); 2. Imperial College London) (INT. AUD.: 2)
Speaker: Yuqi Wu

4:05 PM..... **A deep learning workflow for petro-mechanical facies predictions in unconventional:** N. Vento, E. Liu, M. Johns (ExxonMobil) (INT. AUD.: 3) Speaker: Noah Vento

4:30 PM..... **An innovation for regional frac hit susceptibility prediction: Introducing the frac hit recognition and elimination yielding analysis (FREYA):** A. Grechishnikova², S. Prochnow¹ (1. Chevron Technology Center; 2. Chevron Mid-Continent Business Unit) (INT. AUD.: 4) Speaker: Alena Grechishnikova

4:55 PM..... **ED-XRF-calculated excess silica (SiO₂^{Excess}) content as a proxy for elastic geomechanical properties in unconventional reservoirs: A case study from the Early Permian Wolfcamp A and Wolfcamp B formations in the Delaware Basin, West Texas, USA:** E. J. Peavey (Texas A&M University) (INT. AUD.: 5) Speaker: Eric Peavey



Your trusted OBN partner

When it comes to OBN, experience matters. Choose the trusted leader in OBN acquisition with a track record spanning over 130 surveys.



Go Beyond Streamers

TGS.com



(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

BMPS 1 Integrated Workflows in Basin Modeling

Session Chairs: Martin Neumaier and Johannes Wendebourg

Location: 372A

Synopsis: *Papers in this session cover applications of integrated data analyses and modeling approaches to address various geological aspects of basin development and resource assessment.*

8:00 AM..... **A possible link between colloidal migration of petroleum and reservoir diagenesis:** J. G. Stainforth (Independent) (INT. AUD.: 3) Speaker: John Stainforth

8:25 AM..... **Coupled stratigraphic, diagenetic and basin modelling for an ultra-deep petroleum system analysis: A case study from the Sichuan Basin, China:** J. Liu¹, K. Liu^{*2}, L. Yang³, C. Li¹ (1. China University of Petroleum (East China); 2. China University of Petroleum; 3. China University of Petroleum (Beijing)) (INT. AUD.: 3) Speaker: Keyu Liu

8:50 AM..... **Proxy models for uncertainty and sensitivity analysis in process forward modelling: A comparison of methodologies:** S. Bou Daher¹, A. Thebault¹, G. Suzanne¹, B. Auffray¹, M. Callies¹, F. Medellin^{*2} (1. Beicip-Franlab; 2. Beicip Inc.) (INT. AUD.: 3) Speaker: Felipe Medellin

9:15 AM..... **Revisiting the hydrocarbon prospectivity of the Penyu Basin, offshore Malaysia:** O. Schenk¹, C. Tu^{*1}, H. Maulana², P. Mullin¹, A. Hassan¹, J. Azwa², F. Deraman², S. Sulaiman², F. Ali², B. Wei², A. Abdullah² (1. Schlumberger slb; 2. Petronas) (INT. AUD.: 3) Speaker: Ching Tu

CEMS 5 Technologies and Methods in Carbonate Reservoir Characterization 1

Session Chairs: Jean Hsieh and William Morgan

Location: 371A

Synopsis: *This session showcases approaches to capture carbonate reservoir heterogeneity using core plug data, seismic attributes, outcrop analogs, and reservoir modeling techniques.*

8:00 AM..... **Integration of drone-based hyperspectral imaging and geochemical proxies to better constrain the spatial relationships and origin of dolomites in the late Jurassic Arab-D member, Saudi Arabia:** G. Gairola¹, S. Thiele², P. Khanna³, A. Ramdani¹, Y. Panara¹, G. Frijia⁴, A. Cipriani⁵, P. Swart⁶, R. Gloaguen², V. Vahrenkamp¹ (1. KAUST(King Abdullah University of Science and Technology); 2. Helmholtz-Zentrum Dresden-Rossendorf; 3. Indian Institute of Technology Gandhinagar; 4. Università di Ferrara; 5. Università di Modena e Reggio Emilia; 6. University of Miami) (INT. AUD.: 3) Speaker: Gaurav Gairola

8:25 AM..... **Detection of interbedded thin super-k carbonate reservoir units using frequency decomposition and RGB blending:** O. Aldhalea, Y. Sun (Texas A&M University) (INT. AUD.: 3) Speaker: Omar Aldhalea

8:50 AM..... **High-resolution mapping and quantification of rock properties in heterogeneous carbonates, ready for 2 phase flow modelling and upscaling purposes:** C. Taberner¹, A. Fadili², S. Berg³, F. Marcellis¹, Y. Gao³, R. Bouwmeester⁵, W. De Boever⁴, M. Boone⁴, J. Dewanckele⁴, T. Sorop³, J. van der Horst³ (1.

Shell Global Solutions International B.V.; 2. Shell Global Solutions International B.V.; 3. Shell Global Solutions International B.V.; 4. TESCOAN XRE; 5. Shell Global Solutions International B.V.) (INT. AUD.: 3) Speaker: Conxita Taberner

9:15 AM..... **Geological modeling and dynamic simulation of fault-controlled karsted carbonate reservoirs for evaluation of production wells location in Tarim basin, China:** T. Duan, W. Zhang, H. Zhao (Sinopec) (INT. AUD.: 3) Speaker: Taizhong Duan

FWI 3 Cycle Skipping

Session Chairs: Yong Ma and Luping Qu

Location: 370A

Synopsis: *Stabilizing full waveform inversion solution via algorithms such as extended methods and novel objective functions workflows to avoid local minima problems.*

8:00 AM..... **Time-domain extended-source full-waveform inversion for acoustic vertically transversely isotropic media: Theory, numerical validation and application on real data:** G. Guo¹, S. Operto¹, H. S. Aghamiry² (1. Geoazur-CNRS-IRD-UNS-OCA; 2. Charité – Universitätsmedizin Berlin, Center for Biomedicine) (INT. AUD.: 3) Speaker: Gaoshan Guo

8:25 AM..... **Differentiable dynamic-time-warping divergences in full-waveform inversion:** M. Kalita¹, L. Casasanta² (1. Shearwater Geoservices; 2. Shearwater GeoServices, UK) (INT. AUD.: 2) Speaker: Mahesh Kalita

8:50 AM..... **Optimal transport for elastic source inversion:** T. Masthay, B. Engquist (University of Texas at Austin) (INT. AUD.: 3) Speaker: Tyler Masthay

9:15 AM..... **High dimensional optimal transport for full-waveform inversion:** W. He¹, G. Hu¹, J. Ma², b. zhang¹, W. Xu³ (1. Sinopec Geophysical Research Institute; 2. No. 5 Yiheyuan Road, Beijing; 3. Sinopec Geophysical Research Institute) (INT. AUD.: 3) Speaker: Weiguang He

INT 5 Resolution

Session Chairs: Oswaldo Davogustto and Bao Nguyen

Location: 362A

Synopsis: *New methods of seismic resolution enhancement.*

8:00 AM..... **Comparison of seismic resolution enhancement techniques: Spectral extrapolation vs spectral balancing:** C. Puryear (Spectral Geosolutions) (INT. AUD.: 3) Speaker: Charles Puryear

8:25 AM..... **Seismic trace resolution improvement using Time-Time Transform:** M. Matos¹, K. Marfurt^{*2} (1. www.sismo.com.br; 2. The University of Oklahoma) (INT. AUD.: 2) Speaker: Kurt Marfurt

8:50 AM..... **Correcting individual source/receiver wavelet distortion is key for improving land seismic QI:** C. Stork (Land Seismic Noise Specialists) (INT. AUD.: 2) Speaker: Christof Stork

9:15 AM..... **Analysis and compensation of amplitude shielding characteristics of shallow gas based on wide-azimuth seismic data:** J. Ming, J. Wang, b. qingyun (China National Offshore Oil Corporation) (INT. AUD.: 6) Speaker: Jun Ming

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

IPS 1 Mechanisms

Session Chairs: Yingping Li and Joel Le Calvez

Location: 372B

Synopsis: Induced seismic mechanisms: fluid rock interactions and magnitudes of induced earthquakes.

- 8:00 AM..... **3D geomechanical modelling of intersecting faults: Effects on induced seismicity due to fluid depletion:** J. Ruan¹, R. Ghose¹, W. A. Mulder² (1. Delft University of Technology; 2. Shell Global Solutions International B.V. & Delft University of Technology) (INT. AUD.: 3) Speaker: Jingming Ruan
- 8:25 AM..... **Pore pressure thresholds from injection associated with Seismogenic Fault Rupture in the Midland Basin:** P. H. Hennings¹, K. Smye^{*2}, J. Ge¹, E. A. Horne³, J. Nicot¹ (1. The University of Texas at Austin; 2. Bureau of Economic Geology; 3. University of Texas at Austin) (INT. AUD.: 3) Speaker: Katie Smye
- 8:50 AM..... **Time-dependent stress shadow model explains tracer observations in Denver-Julesburg basin:** J. P. McKenna (MicroSeismic, Inc) (INT. AUD.: 1) Speaker: Jonathan McKenna
- 9:15 AM..... **Estimation of the probability of maximum earthquakes triggered by reservoir developments:** S. A. Shapiro (Freie Universitaet Berlin) (INT. AUD.: 1) Speaker: Serge Shapiro

MLDA 5 Low Carbon Solution

Session Chairs: Aria Abubakar and Ziyi Yin

Location: 351B

Synopsis: Machine learning applications for enhancing CCUS and wind farm planning.

- 8:00 AM..... **CO₂ sequestration reservoir distribution evaluation with 4D seismic data:** S. Gao, S. Fomel, Y. Chen (University of Texas at Austin) (INT. AUD.: 5) Speaker: Shuang Gao
- 8:25 AM..... **Unsupervised clustering of frequently repeated 4D seismic data for delineation of CO₂ plume development:** B. M. Arshin Sukar, C. D. MacBeth (Heriot-Watt university) (INT. AUD.: 3) Speaker: Boshara M. Arshin Sukar
- 8:50 AM..... **Full 3D subsurface model prediction from sparsely acquired time-lapse seismic dataset with deep learning:** S. D. Phan¹, W. Hu², A. Abubakar³ (1. SLB; 2. Schlumberger; 3. Schlumberger) (INT. AUD.: 3) Speaker: Son Phan
- 9:15 AM..... **Boulder prediction for offshore windfarm site evaluation using an interactive 2D CNN and a unique weighting scheme on unmigrated seismic:** S. Chambers (S&P Global) (INT. AUD.: 3) Speaker: Samuel Chambers

MME 1 Mineral Exploration: Geophysics 1

Session Chairs: Heather Schijns and Xiaolong Wei

Location: 362B

Synopsis: Geophysical methods, tools, and strategies for mineral exploration.

- 8:00 AM..... **Ergodic sampling: A new data acquisition method to gather more information:** M. Zhang, Y. Li (Colorado School of Mines) (INT. AUD.: 3) Speaker: Mengli Zhang

- 8:25 AM..... **Fatiando a Terra: Open-source tools for geophysics:** A. Pesce¹, S. Soler² (1. Fatiando a Terra; 2. University of British Columbia) (INT. AUD.: 2) Speaker: Agustina Pesce
- 8:50 AM..... **Application of 3D forward modeling and inversion to grounded wire source time-domain electromagnetic data from a Pb-Zn mine in southern China:** M. Cheng¹, D. Yang¹, Q. Luo², S. Han² (1. Southern University of Science and Technology; 2. Guangdong Provincial Geophysical Prospecting Team) (INT. AUD.: 3) Speaker: Ming Cheng
- 9:15 AM..... **Deep learning enhanced joint inversion for mineral exploration using airborne geophysics: Application in Decorah area:** Y. Hu³, X. Wei², X. Wu³, J. Sun⁴, J. Chen⁵, Y. Huang⁶ (1. University of Houston; 2. Stanford University; 3. University of Houston; 4. University of Houston; 5. University of Houston; 6. Cyentech Consulting LLC) (INT. AUD.: 3) Speaker: Yanyan Hu

NS 5 Urban, Geotechnical, and Archeological Applications

Session Chairs: Luigi Bianco and Elita Li

Location: 351A

Synopsis: The use of geophysics for applications in urban areas, geotechnical problems, and archeology.

- 8:00 AM..... **Uncovering hidden histories through a field camp: Geophysical surveys for archaeological investigations of slavery in Ghana:** C. Boateng¹, D. D. Wemegah¹, W. Apoh² (1. Kwame Nkrumah University of Science and Technology; 2. University of Ghana) (INT. AUD.: 3) Speaker: Cyril Boateng
- 8:25 AM..... **Drone surveys in support of archaeological objectives in Texas:** M. Allison², S. Adcock¹ (1. Resource Evaluations; 2. Raptor Aerial Services) (INT. AUD.: 1) Speaker: Mike Allison
- 8:50 AM..... **3D Geophysical Imaging for Mineral Exploration and Gully Investigation/Characterization in Ukpok Metropolis, Nigeria:** C. M. Arukwe¹, G. E. Nwafor², T. E. Onyebum^{*2}, O. T. Emenaha¹, C. V. Orabueze², I. C. Meniru², C. V. Ahaneku¹, E. J. Amasian¹ (1. Nnamdi Azikiwe University Awka; 2. Nnamdi Azikiwe University Awka) (INT. AUD.: 3) Speaker: Tochukwu Onyebum
- 9:15 AM..... **Delineating buried metallic pipes using borehole magnetic data in civil engineering:** H. Rim², M. Zhang^{*1}, Y. Li¹ (1. Colorado School of Mines; 2. Pusan national University) (INT. AUD.: 3) Speaker: Mengli Zhang

RP 1 Dispersion and Attenuation

Session Chairs: Luca Duranti and Mark Kittridge

Location: 372C

Synopsis: This session will discuss rock physics models and measurements of dispersion and attenuation.

- 8:00 AM..... **Viscoelastic tuning effects in monitoring thin CO₂ layers:** G. Papageorgiou¹, M. Chapman² (1. University of Edinburgh; 2. University of Edinburgh) (INT. AUD.: 3) Speaker: Georgios Papageorgiou
- 8:25 AM..... **Elastic dispersion in shale: Laboratory tests and rock physics modeling:** R. M. Holt¹, A. Bakk², E. Fjær², S. Lozovyi², K. Mews¹ (1. NTNU; 2. SINTEF Industry) (INT. AUD.: 3) Speaker: Rune Holt

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

8:50 AM..... **Seismic dispersion and attenuation caused by CO₂ EOR-related flooding:** A. Ghaderi¹, M. Landrø², M. Prasad³ (1. SINTEF Industry; 2. NTNU; 3. Colorado School of Mines) (INT. AUD.: 4) Speaker: Amir Ghaderi

9:15 AM..... **Observation and modelling of azimuthal variation of P-wave attenuation in a multi-frequency seismic survey:** M. Chapman¹, C. Macdonald¹, A. Yao¹, A. Robinson², J. Bull², G. Bayrakci³, T. Minshull², T. Henstock², G. Papageorgiou⁴ (1. University of Edinburgh; 2. University of Southampton; 3. National Oceanography Centre; 4. University of Edinburgh) (INT. AUD.: 3) Speaker: Mark Chapman

SP 5 Advanced Velocity Model Building Techniques 1

Session Chairs: Gilles Lambare and Chao Wang

Location: 371B

Synopsis: Advanced techniques in velocity model building including full waveform inversion and deep-learning based approaches.

8:00 AM..... **Unlocking the potential of TLFWI in onshore Argentina:** K. Zhang², C. Masarik¹, A. Baharvand Ahmadi⁴, D. Bai³ (1. Chevron Argentina, Ltd.; 2. Chevron U.S.A. Inc.; 3. CGG; 4. CGG) (INT. AUD.: 3) Speaker: Kai Zhang

8:25 AM..... **High-resolution near surface land FWI across the Delaware basin Fill Zone:** T. Krishnasamy¹, J. Sheng¹, R. Florendo¹, J. Beck¹, J. A. Sierra², S. Murphy², J. Siebens², Y. Iwo-Brown² (1. TGS; 2. EOG Resources) (INT. AUD.: 3) Speaker: Terence Krishnasamy

8:50 AM..... **High resolution angle gather tomography with Fourier neural operators:** S. Crawley¹, G. Huang², R. Djebbi¹, J. Ramos-Martinez³, N. Chemingui⁴ (1. PGS; 2. PGS; 3. PGS; 4. PGS) (INT. AUD.: 4) Speaker: Sean Crawley

9:15 AM..... **High frequency FWI on Clair OBN dataset - challenges and successes:** M. Romanenko, L. Saxtonon, D. M. Davies, J. Sheng, F. Liu, Y. He, J. Gromotka (TGS) (INT. AUD.: 3) Speaker: Matvey Romanenko

SS 10 Recent Advances in CCS Monitoring: Technology and Case Study

Session Chairs: Erkan Ay and Michel Verliac

Location: 361A

Synopsis: This session gathers experts in their respective fields to discuss furthering the advancement of solutions geared toward leveraging carbon capture and sequestration monitoring technology as a whole.

8:00 AM..... **Monitoring CCUS projects: Lessons learned at the CMC-CaMI Newell County Facility, Alberta, Canada:** M. Macquet¹, D. Lawton¹, K. Innanen², B. Kolkman-Quinn³, J. Cooper² (1. Carbon Management Canada; 2. University of Calgary; 3. Carbon Management Canada) (INT. AUD.: 3) Speaker: Marie Macquet

8:25 AM..... **Continuous geological carbon storage monitoring with downhole DAS receivers and permanently mounted rotary sources:** R. Pevzner¹, B. Gurevich^{*1}, R. Isaenkov¹, P. Shashkin¹, K. Tertyshnikov¹, A. Yurikov¹, S. Yavuz¹, J. Correa², S. Glubokovskikh¹, T. J. Wood², B. Freifeld³, P. Barraclough⁴ (1. Curtin University; 2. Lawrence Berkeley

National Laboratory; 3. Class VI Solutions; 4. CO2CRC Ltd.) (INT. AUD.: 2) Speaker: Boris Gurevich

8:50 AM..... **Development of an affordable new seismic source-receiver system for 4D mapping of CCS plume fronts and passive seismic monitoring:** N. J. Brooks¹, X. Fang¹, T. Chen¹, G. Knapo¹, H. Wilkinson² (1. SensorEra Inc; 2. GreenPowerUSA (GPUSA)) (INT. AUD.: 3) Speaker: Nicholas Brooks

9:15 AM..... **Reservoir plume imaging with controlled source electromagnetics:** K. Strack¹, C. Barajas-Olalde², S. Davydycheva¹, A. Y. Paembonan³, P. Soupios⁴ (1. KMS Technologies; 2. University of North Dakota; 3. Sumatra Inst. of Technology; 4. KFUPM) (INT. AUD.: 2) Speaker: Kurt Strack

SS 11 Tectonics, Sedimentary Basins, and Petroleum Systems

Session Chairs: Dengliang Gao and Feng Zhiqiang

Location: 362C

Synopsis: Tectonics and sedimentation: implications for petroleum systems.

8:00 AM..... **Classification of Petroliferous Sedimentary Basins:** F. Zhiqiang¹, D. Gao², S. A. Graham³, G. Wu¹, T. Duan¹ (1. Sinopec; 2. West Virginia University; 3. Stanford University) (INT. AUD.: 3) Speaker: Feng Zhiqiang

8:25 AM..... **Tying together sedimentary basin evolution, tectonic history, and petroleum system development: The Santa Maria Basin, California:** A. Hosford Scheirer, L. Magoon (Stanford University) (INT. AUD.: 3) Speaker: Allegra Hosford Scheirer

8:50 AM..... **Genetic analysis of strike-slip faults and related basins in China:** M. Li, Z. Feng, S. Deng (Petroleum Exploration and Production Research Institute, Sinopec) (INT. AUD.: 5) Speaker: Shang Deng

9:15 AM..... **Control of lithospheric properties on formation and evolution of East African Rift System:** M. Gao, Z. Feng, J. Yin, Y. Wang, Q. Fan (Petroleum Exploration and Production Research Institute, Sinopec) (INT. AUD.: 2) Speaker: Feng Zhiqiang

SS 9 Petroleum Enrichment and the Tethys Geodynamic System 1

Session Chairs: Keyu Liu and Yitian Xiao

Location: 360A

Synopsis: Latest research on the distribution and differential enrichment of oil and gas along the Tethys tectonic belt.

8:00 AM..... **Polycyclic tectonic evolution and hydrocarbon enrichment in Sichuan Basin:** S. Li, Z. He, Y. Li, J. Gao, X. Feng (Petroleum Exploration and Development Research Institute, Sinopec) (INT. AUD.: 3) Speaker: Shuangjian Li

8:25 AM..... **WITHDRAWN**

8:50 AM..... **Mechanisms for differential hydrocarbon enrichment constrained by Tethyan evolution:** Z. He³, S. Li², J. Gao^{*1} (1. Sinopec Petroleum Exploration and Production Research Institute; 2. Petroleum Exploration and Development Research Institute, Sinopec; 3. China Petrochemical Corporation) (INT. AUD.: 6) Speaker: Jian Gao

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

UNCON 5 Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 1

Session Chairs: Abdullah Alkhalidi and Robert Nail

Location: 361B

Synopsis: This session focuses on the analysis of shales and tight reservoirs using laboratory instrumentations and techniques.

8:00 AM..... **Microstructures of the different lithofacies and their effects on the oil storage capacities in organic-rich saline lacustrine shale strata—An example from the Lucaogou Formation, Jimusar Sag, Junggar Basin, northwestern China:** Y. Cao¹, Z. Jin¹, R. Zhu², K. Liu¹ (1. Peking University; 2. PetroChina) (INT. AUD.: 6)
Speaker: Yan Cao

8:25 AM..... **Retention effect on pyrolytic fluid type prediction in shale plays: An alternative PVT-derived technique for fluid prediction:** I. Alfraih¹, K. Arouri², P. Luo², A. Alraddadi², M. Mohanna² (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 5) Speaker: Ibrahim Alfraih

8:50 AM..... **Petrophysical characterization of Lower Cretaceous marly chalk through ¹H-NMR and complex resistivity:** E. Proestakis, L. Pinto Meireles, I. L. Fabricius (DTU) (INT. AUD.: 3) Speaker: Ermis Proestakis

9:15 AM..... **Nanoscale oil adsorption capacity and water effect in shale: Investigation of phase behavior for shale oil systems** Z. Cao¹, Z. Zhang¹, J. Guo¹, H. Jiang^{*2} (1. Sinopec Petroleum Exploration and Production Research Institute; 2. Heriot-Watt University (Non-Author)) (INT. AUD.: 3) Speaker: Hang Jiang

BMPS 2 Seal and Pore Pressure Risk Assessment

Session Chairs: Shuang Gao and Javed Ismail

Location: 372A

Synopsis: Seal quality assessment and pore-pressure prediction are two critical aspects for successful development of prospects. This session consists of papers on controls on seal quality and pore-pressure in the subsurface including a workflow development for PP prediction in offshore Suriname.

10:20 AM.... **The influence of seal on hydrocarbon phase and column height:** M. Neumaier, B. Kurtenbach, I. Bryant (Ariane Logix) (INT. AUD.: 4) Speaker: Martin Neumaier

10:45 AM.... **Impact of fluid properties on capillary seals:** V. Chevrot, N. B. Harris (University of Alberta) (INT. AUD.: 3)
Speaker: Victoria Chevrot

11:10 AM **Subsurface formation pressure gradient vs. slope: Perception and pitfalls:** S. S. Shaker (Geoscientist) (INT. AUD.: 2) Speaker: Selim Shaker

11:35 AM **Building the first successful pore pressure prediction workflow in offshore Suriname:** M. Tingay (PETRONAS) (INT. AUD.: 2) Speaker: Mark Tingay

CEMS 6 Carbonate Insights from Modern and Outcrop Analogs

Session Chairs: Xavier Janson and Cecilia Lopez-Gamundi

Location: 371A

Synopsis: This session focuses on the value of analogs to understand complex geological processes that impact

petroleum systems, as well as challenge widely accepted paradigms.

10:20 AM.... **Reservoir heterogeneity and fluid flow implication of the Late-Jurassic Arabian stromatoporoid-coral buildup facies during waterflood: An insight from 3D outcrop analog:** A. Ramdani¹, G. Gairola¹, A. Omar¹, P. Khanna², H. Hoteit¹, V. Vahrenkamp¹ (1. King Abdullah University of Science and Technology; 2. Indian Institute of Technology – Gandhinagar) (INT. AUD.: 3)
Speaker: Ahmad Ramdani

10:45 AM.... **Ediacaran regional sea-level drawdown triggers extensive allochthonous salt breakout and incision of kilometer-deep paleocanyons, Flinders Ranges, South Australia:** S. Giles¹, K. Giles², M. Rowan³, K. Maza¹, N. Christie-Blick¹, D. Lankford-Bravo² (1. Columbia University; 2. The University of Texas at El Paso; 3. Rowan Consulting, Inc.) (INT. AUD.: 1)
Speaker: Sarah Giles

11:10 AM **Deflating the windward-leeward paradigm in carbonate sedimentology and stratigraphy:** G. Rankey¹, K. P. Jakobsen² (1. University of Kansas; 2. COWI) (INT. AUD.: 3) Speaker: Gene Rankey

11:35 AM **The upward-shallowing model for carbonate peritidal cycles is over-used!:** R. W. Dalrymple, J. M. Rivers (Queen's University) (INT. AUD.: 4)
Speaker: Robert Dalrymple

CO2 1 Developments and Lessons Learned

Session Chairs: Scott Singleton and Charlie Zeng

Location: 361B

Synopsis: Taking a look toward the future of CCS, new insights, and key lessons learned.

10:20 AM.... **Blue hydrogen and CO₂ enhanced geothermal energy: A concept for the transformation of hydrocarbon-based economies:** V. Vahrenkamp, J. Ezekiel, H. Hoteit, T. Finkbeiner, M. Mai (KAUST) (INT. AUD.: 4)
Speaker: Volker Vahrenkamp

10:45 AM.... **Geo-modelling of TM-Field, Niger Delta Basin for carbon capture and storage development:** M. Y. Shiru (University of Nigeria,) (INT. AUD.: 3)
Speaker: Mariam Shiru

11:10 AM **Petrophysical and geomechanical study of CO₂ enhanced gas recovery and CO₂ storage in shales: A critical review:** E. A. Okoli¹, K. Oladoyin², C. C. Akaolisa¹, D. O. Ikoru¹, U. B. Onyeawuna¹, C. Uma¹, H. Okafor¹, D. O. Iheanacho¹ (1. Federal University of Technology, Owerri; 2. New Jersey Institute of Technology) (INT. AUD.: 6)
Speaker: Emeka Okoli

11:35 AM **Study on the changes of shale physicochemical mechanism during long-term storage of supercritical carbon dioxide (SCCO₂):** T. Zhang², Y. Li¹, E. Jiang³, Y. Lin¹, J. Zou¹, W. Zhou¹, C. He¹ (1. Chengdu University of Technology; 2. Research Institute of Petroleum Exploration & Development; 3. China National Petroleum Corporation) (INT. AUD.: 3) Speaker: Tianze Zhang

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

FWI 4 Elastic and Multiparameter

Session Chairs: Carlos Perez Solano and Xiaolei Song

Location: 370A

Synopsis: *Applications and workflows for multi-parameter FWI including elastic full waveform inversion applications, Q estimation and its impact in complex geological setting.*

10:20 AM.... **Quantitative FWI characterization of reservoir properties at the CMC Newell County Facility:** Q. Hu¹, M. V. Eaid¹, S. Keating¹, X. Cai³, K. Innanen² (1. University of Calgary; 2. University of Calgary; 3. University of Calgary) (INT. AUD.: 3) Speaker: Qi Hu

10:45 AM.... **Implications of elastic full-waveform inversion for northern Red Sea:** K. Glaccum, D. Vigh, K. Wang, X. Tan, J. Qin, V. Robertson, T. Ferguson (SLB) (INT. AUD.: 3) Speaker: Kate Glaccum

11:10 AM **Improving Q estimation in full-waveform inversion: Gradient preconditioning and data misfit design:** P. Yong, R. Brossier, L. Métivier (SEISCOPE) (INT. AUD.: 3) Speaker: Peng Yong

11:35 AM **Value of elastic full-waveform inversion in de-risking clastic reservoirs in presence of noise:** P. S. Routh¹, S. R. Nayak¹, J. Dorsett², K. Bandyopadhyay², Y. Cha¹, V. Gudipati¹, R. Neelamani¹, G. Palacharla¹, S. Conway¹, A. Raphael² (1. ExxonMobil; 2. ExxonMobil) (INT. AUD.: 3) Speaker: Partha Routh

INT 6 Attribute

Session Chairs: Bo Zhang and Tingting Zhang

Location: 362A

Synopsis: *How attributes assist better facies analysis.*

10:20 AM.... **Wavelet resonance imaging:** J. Yang (Sinopec Geophysical Research Institute) (INT. AUD.: 1) Speaker: Jinlong Yang

10:45 AM.... **Seismic sequence attribute:** B. Zhang¹, R. Zhai², Y. Wang³ (1. University of Alabama; 2. The University of Oklahoma; 3. Imperial College London) (INT. AUD.: 1) Speaker: Bo Zhang

11:10 AM **Multi-seismic attribute-assisted mapping of heterogeneous salt: An example from the Zechstein Supergroup in the Dutch North Sea:** S. Bhattacharya, O. Duffy (The University of Texas at Austin) (INT. AUD.: 3) Speaker: Shuvajit Bhattacharya

11:35 AM **WITHDRAWN**

IPS 2 Induced Seismicity in Midland, Texas

Session Chairs: Yingping Li and Joel Le Calvez

Location: 372B

Synopsis: *This session topic is on locating and mitigating induced seismicity in Midland, Texas.*

10:20 AM.... **A midland basin operator's approach to data collection and current best practices for mitigating induced seismicity:** M. Dighans¹, R. Kavanagh¹, B. Davis¹, A. Quarles¹, P. H. Hennings² (1. Endeavor Energy Resources; 2. University of Texas) (INT. AUD.: 2) Speaker: Murray Dighans

10:45 AM.... **Induced seismicity in Howard County I: The buried Grenville front in the Midland basin and its role in localizing induced seismicity, Texas:** A. Keene¹,

J. Zawila², T. Lupo¹, R. Gibson¹, A. R. Huffman⁴, R. Storniolo³ (1. SM Energy; 2. SM Energy; 3. Birch Resources; 4. HighPeak Energy Inc.) (INT. AUD.: 3) Speaker: Andrew Keene

11:10 AM **Induced seismicity in Howard County IV: Numerical investigation of wave propagation in a complex layered sedimentary basin velocity field and the impact on travel paths and event locations:** X. Fang¹, T. Chen¹, N. J. Brooks¹, A. R. Huffman², T. Lupo³, R. Storniolo⁴ (1. SensorEra Inc; 2. HighPeak Energy Inc.; 3. SM Energy; 4. Birch Resources) (INT. AUD.: 3) Speaker: Xinding Fang

11:35 AM **Induced seismicity in Howard County V: Technical and regulatory challenges for induced seismicity and deep disposal of fluids:** A. R. Huffman¹, T. Lupo², R. Storniolo⁵, A. Keene², J. Zawila³, E. Hiemstra⁵, T. Chen⁴, E. Marlow⁶, X. Fang⁴, N. J. Brooks⁷, S. Bowman-Young⁶, N. Fleegal⁸, A. Ramsay⁶ (1. HighPeak Energy Inc.; 2. SM Energy; 3. SM Energy; 4. SensorEra; 5. Birch Resources; 6. ESG Solutions; 7. SensorEra Inc; 8. ESG Solutions) (INT. AUD.: 3) Speaker: Alan Huffman

MLDA 6 Seismic Interpretation 1

Session Chairs: Christopher Liner and Noah Vento

Location: 351B

Synopsis: *Advancements in machine learning based seismic data interpretation and how to improve the associated training data.*

10:20 AM.... **Seismic data augmentation with synthetic multiples for multi deep learning tasks:** T. Zhou¹, Y. Ma² (1. Aramco Beijing Research Center; 2. Aramco Beijing Research Center) (INT. AUD.: 3) Speaker: Tong Zhou

10:45 AM.... **Extracting infinite number of horizons from seismic image using deep learning approach:** A. Abubakar¹, H. Di¹, Z. Li¹, H. Maniar¹, T. Zhao² (1. SLB; 2. SLB) (INT. AUD.: 2) Speaker: Aria Abubakar

11:10 AM **What samples must seismic interpreters label for efficient machine learning?:** R. Benkert¹, M. Prabhushankar², G. AlRegib¹ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology) (INT. AUD.: 4) Speaker: Ryan Benkert

11:35 AM **Semi-supervised learning with knowledge embedding for horizon volumes calculation:** R. Guo, H. Lin, M. Chen, C. Tao, Y. Gao, R. Wen (BGP, CNPC) (INT. AUD.: 3) Speaker: Rui Guo

MME 2 Mineral Exploration/Development: Applied Geoscience

Session Chairs: Daniel Hollis and Seogi Kang

Location: 362B

Synopsis: *Application of new geological and geophysical methods to mineral exploration and mine development.*

10:20 AM.... **Searching for copper in the age of transition - the holistic mindset:** G. R. Nicoll¹, J. Jennings¹, K. Heyburn¹, C. Gravestock¹, H. Smyth^{*2} (1. Halliburton; 2. Halliburton (Non-Author)) (INT. AUD.: 2) Speaker: Helen Smyth

10:45 AM.... **A non-invasive approach for quantitative evaluation of geological deformations and dynamic disasters in complex mining environments:** M. Khan, X. He, D.

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

- 11:10 AM Song (University of Science and Technology Beijing) (INT. AUD.: 4) Speaker: Majid Khan
- 11:10 AM **Ambient noise surface wave tomography (ANSWT): A successful method for regional to deposit scale exploration:** A. Lavoue, D. Hollis, N. Arndt, A. Mordret, S. Beauprêtre (Sisprobe SAS) (INT. AUD.: 3) Speaker: Anais Lavoue
- 11:35 AM **Seismic to assist mine planning in deep platinum mines:** I. James¹, M. Manzi² (1. Southern Geoscience Consultants; 2. University of the Witwatersrand) (INT. AUD.: 3) Speaker: Ian James

NEF 1 Advancements in Subsurface Geothermal Resource Development

Session Chairs: Eric Stautberg and Nicole Wagoner

Location: 362C

Synopsis: This session includes presentations on geothermal play types and geophysical research into geothermal development.

- 10:20 AM **The identification and characterization of sedimentary geothermal play types on the Texas Gulf Coast for electrical power generation:** E. Stautberg, S. Sonnenberg (Colorado School of Mines) (INT. AUD.: 2) Speaker: Eric Stautberg
- 10:45 AM **Deep learning based microearthquake (MEQ) location prediction at Newberry EGS using physics-informed synthetic dataset:** Z. Leong¹, T. Zhu² (1. The Pennsylvania State University; 2. Penn State University) (INT. AUD.: 5) Speaker: Zi Xian Leong
- 11:10 AM **Applying waveform correlation analysis to detect and characterize fractures using microseismicity at the FORGE sites:** R. Asirifi¹, X. Chen¹, P. Ratre², R. Ng², A. Mohammadi Gh¹ (1. Texas A&M University; 2. University of Oklahoma) (INT. AUD.: 4) Speaker: Richard Asirifi
- 11:35 AM **A cloud-based system for interactive collaboration and management of integrated geothermal subsurface models and data:** J. Elliott, J. Sellars*, R. Podgorney, J. Obrien, K. Gould (Seequent) (INT. AUD.: 3) Speaker: Josh Sellars

NS 6 Dams, Levees, Coastal, and Cryosphere Geophysics

Session Chairs: Nicole Pendrigh and Siyuan Yuan

Location: 351A

Synopsis: Near surface geophysics for applications relating to climate change, coastal geophysics, cryosphere, dams, and levees.

- 10:20 AM **An innovative approach for mapping growth fault systems using thermal remote sensing data: A case study from Corpus Christi Bay, Texas:** A. Omar, M. Ahmed, D. Murgulet (Texas A&M University - Corpus Christi) (INT. AUD.: 3) Speaker: Ahmed Omar
- 10:45 AM **Comparing multiple complimentary geophysical techniques in different geologic settings focused on seepage and internal erosion at embankment dams:** N. Fantello¹, K. Hon², M. Huebner³ (1. S&ME, Inc.; 2. S&ME, Inc.; 3. Tennessee Valley Authority) (INT. AUD.: 3) Speaker: Nadia Fantello
- 11:10 AM **Deep clustering of rain-induced seismic noise from DAS data:** J. Shen, T. Zhu (Penn State University) (INT. AUD.: 2) Speaker: Junzhu Shen

- 11:35 AM **Gas hydrate dissociation and Submarine Slope failures in East Indian margin inferred from 3D seismic interpretation:** J. Palle (CSIR-National Geophysical Research Institute) (INT. AUD.: 4) Speaker: Jyothsna Palle

RP 2 Fractures and Anisotropy

Session Chairs: Ida Fabricius and Rudi Lubbe

Location: 372C

Synopsis: The session will focus on the rock physics understanding of fractures and anisotropy.

- 10:20 AM **Fracture and induced seismicity evolution simulated by spectral-element-based phase field method:** K. Gao, T. Chen (Los Alamos National Laboratory) (INT. AUD.: 3) Speaker: Kai Gao
- 10:45 AM **Petrophysical and geomechanical integration for defining stimulation strategy optimization in carbonate rocks:** J. P. Salazar¹, C. Rabe¹, A. R. Papa² (1. Baker Hughes; 2. National Observatory) (INT. AUD.: 4) Speaker: Jesus Salazar
- 11:10 AM **Using anisotropic rock physics to model VTI parameters:** M. Perez (Parex Resources) (INT. AUD.: 4) Speaker: Marco Perez
- 11:35 AM **Quantitative interpretation in fractured carbonate rock physics:** L. Vernik, A. J. Mur* (Ikona Science) (INT. AUD.: 3) Speaker: Alan Mur

SILIC 1 Deepwater Sedimentary Systems 1

Session Chairs: Fabien Laugier and Carlos Uroza

Location: 361A

Synopsis: Deepwater systems combine diverse processes to produce a range of fans, drifts, and other exotic environments, some of which are world-class arenas for energy resources.

- 10:20 AM **Capturing sedimentologic architecture in deepwater channel reservoir models with hierarchically scaled net-to-gross and flow barrier statistics:** L. Stright¹, B. Daniels², S. Hubbard⁴, B. Romans³ (1. Colorado State University; 2. Mount Royal University; 3. Virginia Tech; 4. University of Calgary) (INT. AUD.: 3) Speaker: Lisa Stright
- 10:45 AM **Recognition and evolution of deepwater supercritical bedforms in the rock record:** L. M. West¹, C. Olariu², R. Steel¹ (1. University of Texas at Austin; 2. The University of Texas at Austin) (INT. AUD.: 2) Speaker: Logan West
- 11:10 AM **Complex heterolithic turbidites of the Cretaceous Katakifto Formation and implications for the evolution of the Northern Tethys Seaway, Pindos Basin, Greece:** S. M. Hudson¹, J. M. Sevy², S. Naone¹ (1. Brigham Young University; 2. Brigham Young University) (INT. AUD.: 3) Speaker: Samuel Hudson
- 11:35 AM **Spatio-temporal coupling between shallow slope failures and fluid activity process on the upper slope of Baiyun Slope in the Northern South China Sea:** Z. Wang², H. Zhuo¹ (1. Sun Yat-Sen University; 2. South China Sea Institute of Oceanology, CAS) (INT. AUD.: 3) Speaker: Zhina Wang

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area

2 = Heard of topic area but has no direct experience

3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area

5 = Detailed knowledge and experience in topic area

6 = Domain area specialists

Wednesday, 30 August

SP 6 Velocity Model Building and Application

Session Chairs: Weihong Fei and Erik Neumann

Location: 371B

Synopsis: Tomographic model building techniques and applications to imaging.

10:20 AM.... **Eikonal-equation-based characteristic reflection traveltime tomography:** J. Zhang¹, L. Dong¹, J. Wang¹, Y. Wang¹, R. Yang^{*2} (1. Tongji University; 2. Tongji University (Non-Author)) (INT. AUD.: 3)
Speaker: Rui Yang

10:45 AM.... **Fast and efficient structure-oriented preconditioning with on-the-fly dip estimation:** R. Felicio Fuck¹, L. Casasanta² (1. Shearwater Geoservices; 2. Shearwater GeoServices, UK) (INT. AUD.: 2)
Speaker: Rodrigo Felicio Fuck

11:10 AM.... **Application of shallow water OBN seismic processing and imaging techniques: Case study in East China Sea:** Z. Ding¹, X. Hu², K. Wang¹, J. Guo¹, C. Liu³, H. Zhang³, Y. Liu³ (1. BGP, CNPC; 2. BGP; 3. Shanghai Petroleum and Natural Gas Co. Ltd) (INT. AUD.: 4) Speaker: Zaiyu Ding

11:35 AM.... **Constructing geologically realistic high-resolution analog velocity models: Field-scale depositional facies-driven models of the Late Jurassic stromatoporoid-coral buildup:** A. Ramdani¹, A. Bakulin², V. Vahrenkamp¹ (1. King Abdullah University of Science and Technology; 2. Saudi Arabian Oil Co) (INT. AUD.: 3)
Speaker: Ahmad Ramdani

SS 12 Petroleum Enrichment and the Tethys Geodynamic System 2

Session Chairs: Keyu Liu and Yitian Xiao

Location: 360A

Synopsis: Latest research on the distribution and differential enrichment of oil and gas along the Tethys tectonic belt.

10:20 AM.... **WITHDRAWN**

10:45 AM.... **Analysis of the current status and potential of oil and gas resources in Southeast Asian basins:** W. Zhu¹, H. Sun², W. Peng², X. Fu¹, S. Zhao¹, Z. Zhou¹ (1. Tongji University; 2. CNOOC International Limited) (INT. AUD.: 5) Speaker: Weilin Zhu

11:10 AM.... **Sedimentary evolution of the southwestern Tarim Basin during the Cretaceous in response to the geodynamics of the Tethyan Orogeny: Implications for petroleum exploration:** J. Chang, K. Liu, J. Liu (China University of Petroleum (East China)) (INT. AUD.: 5) Speaker: Jia Chang

11:35 AM.... **A model for sedimentary basin evolution in convergent margin settings: Implications for petroleum exploration in the eastern sector of the Tethys Geodynamic Domain:** K. Liu (China University of Petroleum) (INT. AUD.: 3) Speaker: Keyu Liu

AAS 1 AVO Inversion

Session Chairs: Mark Kittridge and Zhishuai Zhang

Location: 371A

Synopsis: This session mainly focuses on the technology of AVO inversion with application to estimating rock and reservoir properties.

1:20 PM.... **A field data application of RockAVO: Data-driven, direct petrophysical inversion of pre-stack seismic data:** M.

A. Corrales, H. Hoteit, M. Ravasi (KAUST) (INT. AUD.: 3)
Speaker: Miguel Corrales

1:45 PM.... **Reservoir characterization using amplitude versus frequency inversion:** X. Lu, J. Gao, C. Liu, J. Wang (Tianjin Branch of CNOOC Limited) (INT. AUD.: 3)
Speaker: Xinrui Lu

2:10 PM.... **Application of pre-stack hydrocarbon detection based on low frequency optimization in complex river sedimentary reservoirs in the eastern Bohai Bay:** X. Zhang¹, H. Tan², Y. Zhang² (1. Exploration and development research institution of bohai oilfield; 2. China National Offshore Oil Corporation (CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Xiaojie Zhang

2:35 PM.... **Broadband seismic probabilistic AVO inversion for reservoir properties:** K. Li, Q. Zheng, X. Yin, Y. m. Yang (China University of Petroleum (East China)) (INT. AUD.: 4) Speaker: Kun Li

BMPS 3 Petroleum Systems Case Studies 2

Session Chairs: Shuang Gao and Constantin Sandu

Location: 372A

Synopsis: This session showcases regional case studies of integrated petroleum systems analyses from diverse tectonic settings.

1:20 PM.... **Tectonics of the central-northern California coast unraveled using the petroleum system framework and basin modeling:** A. Hosford Scheirer, L. Magoon, S. A. Graham (Stanford University) (INT. AUD.: 3)
Speaker: Allegra Hosford Scheirer

1:45 PM.... **Tectonic setting and petroleum systems of the Seno Mexicano (South Texas and Burgos Basin): An initial examination:** T. E. Ewing (Frontera Exploration Consultants) (INT. AUD.: 3) Speaker: Thomas Ewing

2:10 PM.... **Southwestward tilting of the Espirito Santo-Campos-Santos salt basin, Brazil, and its implications for source rock potential in the external rift zone:** S. Cornelius (University of Houston) (INT. AUD.: 3)
Speaker: Sharon Cornelius

2:35 PM.... **Rock physics and basin modeling nexus for predicting pore pressure:** Q. Li, T. M. Etzel, A. G. Konstantinou, P. Mazumdar (ExxonMobil) (INT. AUD.: 3) Speaker: Qiuzi Li

C02 2 Modeling and Simulation

Session Chairs: Jorge Barrios and Brad Cey

Location: 361B

Synopsis: Modeling techniques and workflows for CCS with some case studies.

1:20 PM.... **SEAM CO₂: A joint industry investigation of CO₂ storage monitoring via the integrated simulation of geology, flow, geomechanics and geophysics:** W. Abriel¹, M. Fehler³, J. Stefani² (1. Orinda Geophysical; 2. Greywacke Geophysical; 3. SEG Advanced Modeling Corp) (INT. AUD.: 3) Speaker: William Abriel

1:45 PM.... **Coupled fluid-geomechanical modeling for a large-scale CO₂ sequestration project in Southern Colorado:** Y. Ning¹, D. N. Herman¹, A. Tura¹, J. Bridgeman², D. O'Brien² (1. Colorado School of Mines; 2. Oxy) (INT. AUD.: 3) Speaker: Yanrui Ning

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

2:10 PM..... **Geomechanical modelling for geological CO₂ storage offshore Northern Australia:** D. Dewhurst¹, Y. Zhang², P. Schaub², L. Stalker¹, K. Michael¹ (1. CSIRO Energy; 2. CSIRO Mineral Resources) (INT. AUD.: 3)
Speaker: David Dewhurst

2:35 PM..... **Probabilistic assessment of CO₂ storage capacity and containment risk for saline aquifers and prospects:** M. Neumaier, B. Kurtenbach, I. Bryant (Ariane Logix) (INT. AUD.: 3) Speaker: Martin Neumaier

FWI 5 Land, Marine Streamer, and OBN

Session Chairs: Yaxun Tang and Diancheng Wang

Location: 370A

Synopsis: Challenges and solution in land full waveform inversion and OBN data and applications to near surface problems.

1:20 PM..... **Tackling data challenges in land FWI: A case study:** V. Lopez¹, Y. Guo², Q. Li², b. yu¹, C. Zhang¹ (1. Sinopec Tech Houston LLC; 2. Sinopec Zhongyuan Oilfield Company) (INT. AUD.: 3) Speaker: Victor Lopez

1:45 PM..... **Refraction surface-consistent analysis for near surface solutions: A seismic mega merge case:** A. M. Alsaad, S. Alqarni, E. Sandoval Curiel, D. Colombo (Saudi Aramco) (INT. AUD.: 6) Speaker: Abdulaziz Alsaad

2:10 PM..... **Mitigating the effects of guided waves in OBN data for acoustic FWI using data reconstruction: A data example from the Yggdrasil area:** M. Zuberi, E. Cho, T. Seher, R. Myklebust (TGS) (INT. AUD.: 3) Speaker: Mohammad Akbar Hosain Zuberi

2:35 PM..... **Data selection for velocity model estimation using a circular shot OBN survey:** F. T. Costa¹, S. L. da Silva³, A. A. Karsou¹, R. Moreira¹, J. L. Lopez², M. Cetale¹ (1. Fluminense Federal University; 2. Shell Brasil Petroleo Ltda; 3. DISAT, Politecnico di Torino) (INT. AUD.: 3) Speaker: Felipe Costa

INT 7 Case Study: Sand Body

Session Chairs: Huyen Bui and Cucha Lopez

Location: 362A

Synopsis: Case studies about sand body analysis.

1:20 PM..... **Research of accurate depth interpretation method for thin sand body in offshore reservoir and its application in a oilfield, Bohai Bay Basin:** L. Wenbin¹, H. Tang¹, X. Liu¹, Y. Wang² (1. CNOOC China Limited, Tianjin Branch; 2. CNOOC) (INT. AUD.: 3) Speaker: Li Wenbin

1:45 PM..... **Predicting lithofacies at False River Point Bar by integrating different geophysical data:** T. M. Ali (Louisiana State University) (INT. AUD.: 6) Speaker: Tamer Ali

2:10 PM..... **Direct S-wave seismic data interpretation for channel sand reservoir at Sanhu area, West China:** R. Zhang¹, Z. Deng², Y. Wang² (1. University of Louisiana at Lafayette; 2. BGP Inc) (INT. AUD.: 2) Speaker: Rui Zhang

2:35 PM..... **WITHDRAWN**

IPS 3 Novel Methods

Session Chairs: Tariq Alkhalifah and Ying Zhang

Location: 372B

Synopsis: The session is on novel methods of determination of seismic source parameters and seismicity evolution.

1:20 PM..... **Probabilistic centroid moment tensor inversions using geologically constrained priors: Application to induced earthquakes in the Groningen gas field, the Netherlands:** L. Masfara¹, C. Weemstra¹, T. Cullison² (1. Delft University of Technology; 2. Stanford University) (INT. AUD.: 6) Speaker: La Ode Marzujriban Masfara

1:45 PM..... **Automated processing development at a CO₂ site: Phase detection, location, magnitude:** J. Zhang, K. D. Hutchenson, E. B. Grant*, P. Nyffenegger, M. Tinker (Quantum Technology Sciences) (INT. AUD.: 3) Speaker: Elige Grant

2:10 PM..... **Joint microseismic event detection and location using a detection transformer: An application to Arkoma Basin field data:** Y. Yang, T. Alkhalifah, C. Birnie (King Abdullah University of Science and Technology) (INT. AUD.: 3) Speaker: Yuanyuan Yang

2:35 PM..... **Using continuous waveform data to track hydraulic fracture propagation for HFTS1:** N. Igonin, R. Dommissie, A. Savvaidis* (UT Austin) (INT. AUD.: 3) Speaker: Alexandros Savvaidis

MLDA 7 Borehole Applications

Session Chairs: Ademide Mabadeje and Baishali Roy

Location: 351B

Synopsis: Machine learning and advanced analytics in borehole characterizations

1:20 PM..... **Self-supervised microresistivity borehole image inpainting with Swin-Unet:** N. You¹, E. Li² (1. Purdue University; 2. Purdue University) (INT. AUD.: 3) Speaker: Nan You

1:45 PM..... **Integrating deep directional resistivity with machine learning for improved well placement in the Nikaitchuk Field, North Slope Alaska:** C. L. McCullagh¹, J. Zuber² (1. SLB; 2. Eni US Operating Co. Inc.) (INT. AUD.: 2) Speaker: Christopher McCullagh

2:10 PM..... **Lithology identification while drilling with the rock voiceprint recognition method:** M. Xia, C. Wang, C. Yang, W. Zhang, Z. Li (Institute of Geology and Geophysics, Chinese Academy of Sciences and Innovation Academy for Earth Science, Chinese Academy of Sciences) (INT. AUD.: 3) Speaker: Muming Xia

2:35 PM..... **Transformer-based deep learning model for accurate rate of penetration prediction in drilling:** C. Urdaneta¹, C. Jeong², X. Wu³, J. Chen⁴ (1. SLB; 2. SLB; 3. University of Houston; 4. University of Houston) (INT. AUD.: 3) Speaker: Carlos Urdaneta

MME 3 Mineral Exploration: Geophysical Case Studies 1

Session Chairs: Jeff Shoffner and Jiājia Sun

Location: 362B

Synopsis: Application of geophysical methods, tools, and strategies for mineral exploration.

1:20 PM..... **Comparative study of data driven, model-based, and hybrid Integration of multi-disciplinary geospatial data for mineral prospectivity mapping:** A. Shahin¹, S. Riahi² (1. Advanced Micro Devices (AMD); 2. Tehran University) (INT. AUD.: 3) Speaker: Alireza Shahin

1:45 PM..... **Gold targeting of fixed wing aeromagnetic data using structural complexity, self-organizing map and**

Wednesday, 30 August

supervised deep neural network analyses: A case study from the Red Lake camp, Superior Province, Ontario, Canada.: K. Kwan, J. Legault* (Geotech Ltd.) (INT. AUD.: 3) Speaker: Jean Legault

- 2:10 PM..... **Seismic characterization of a historical mine tailing and imaging of deep iron-oxide deposits in central Sweden**: E. D. Alofe, M. Markovic, A. Malehmir (Uppsala University) (INT. AUD.: 3) Speaker: Emmauel Alofe
- 2:35 PM..... **Assessing Tin mineralization potential in a basement complex terrain of western Nigeria using geophysical and geochemical surveys**: S. A. Alimi (University of the Free State) (INT. AUD.: 5) Speaker: Sodiq Alimi

NEF 2 Hydrogen: Geologic Resources and Subsurface Storage

Session Chairs: Geoffrey Ellis and Mengli Zhang

Location: 362C

Synopsis: This session will include talks on a variety of issues related to geologic hydrogen resources and underground hydrogen storage.

- 1:20 PM..... **Geologic hydrogen: An overlooked potential primary clean-energy resource**: G. Ellis (U.S. Geological Survey) (INT. AUD.: 1) Speaker: Geoffrey Ellis
- 1:45 PM..... **Geophysics in gold H₂ exploration**: M. Zhang¹, Y. Li¹, G. Ellis² (1. Colorado School of Mines; 2. U.S. Geological Survey) (INT. AUD.: 3) Speaker: Mengli Zhang
- 2:10 PM..... **Enhanced geological storage of Hydrogen in salt caverns**: R. Goteti, H. Patel, H. Ates, A. Gupta (Aramco Americas) (INT. AUD.: 2) Speaker: Rajesh Goteti
- 2:35 PM..... **Hydrogen storage potential of U.S. salt domes in Texas, Louisiana, and Mississippi**: L. Ruiz Maraggi, L. G. Moscardelli (Bureau of Economic Geology, The University of Texas at Austin) (INT. AUD.: 3) Speaker: Leopoldo Matias Ruiz Maraggi

RP 3 Pore Scale Effects

Session Chairs: Arpita Bathija and Ronny Hofmann

Location: 372C

Synopsis: This session is focused on the effect of pore scale characteristics on elastic property and attenuation predictions.

- 1:20 PM..... **Multi-scale anisotropic dispersion and attenuation in VTI media with penny-shaped cracks**: Y. Feng, Z. Zong, G. Zhang (China University of Petroleum (East China)) (INT. AUD.: 4) Speaker: Yanwen Feng
- 1:45 PM..... **An analytical model for squirt flow and viscous shear relaxation in porous rocks**: Y. Alkhirimkov (Massachusetts Institute of Technology) (INT. AUD.: 3) Speaker: Yury Alkhirimkov
- 2:10 PM..... **WITHDRAWN**
- 2:35 PM..... **Influence of pore-scale anisotropy on elastic wave attributes**: I. Vasconcelos¹, C. Mejia¹, D. Roehl¹, J. L. Lopez² (1. Tecgraf Institute / PUC-Rio; 2. Shell Brasil Petroleo Ltda) (INT. AUD.: 3) Speaker: Ismael Vasconcelos

SILIC 2 Deepwater Sedimentary Systems 3

Session Chairs: Emma Morris and Nicholas Regier

Location: 361A

Synopsis: Deepwater systems combine diverse processes to produce a range of fans, drifts, and other exotic environments, some of which are world-class arenas for energy resources.

- 1:20 PM..... **The influence of salt tectonics on the expression of Submarine Canyons in Minibasin Provinces: An example from N. Gulf of Mexico**: O. Duffy¹, N. Fernandez¹, C. Jackson², F. Peel¹, G. Apps¹, M. Hudec¹ (1. The University of Texas at Austin; 2. Imperial College London) (INT. AUD.: 3) Speaker: Oliver Duffy
- 1:45 PM..... **3D seismic geomorphology of Quaternary submarine gullies on the northern margin of the South China Sea: Insights into delta-to-canyon connections**: H. Zhuo, Z. Wang, M. Su (Sun Yat-sen University) (INT. AUD.: 3) Speaker: Haiteng Zhuo
- 2:10 PM..... **Sandstone richness variability across scales in ancient deepwater slope channel systems: insights from outcrop and subsurface data sets**: B. Daniels¹, L. Stright^{*2}, S. Hubbard³, B. Romans⁴ (1. Mount Royal University; 2. Colorado State University; 3. University of Calgary; 4. Virginia Tech) (INT. AUD.: 4) Speaker: Lisa Stright
- 2:35 PM..... **Using secondary indicators of paleo-total organic carbon to estimate primary production and oxicity of the Cretaceous Pindos Basin, Greece**: J. M. Sevy, S. M. Hudson, S. Naone, T. Morgan, B. Bickmore, J. Radebaugh, L. DeCrescenzo, C. Grover (Brigham Young University) (INT. AUD.: 3) Speaker: Jonathon Sevy

SP 7 Machine Learning Denoise

Session Chairs: Mrinal Sen and Zeyu Zhao

Location: 371B

Synopsis: Various deep learning-based techniques for seismic noise attenuation.

- 1:20 PM..... **Seismic data denoising by combining self-supervised and supervised learning**: Y. Sun¹, P. Williamson² (1. TotalEnergies E&P Research & Technology USA; 2. TotalEnergies OneTech R&D France) (INT. AUD.: 2) Speaker: Yen Sun
- 1:45 PM..... **Unsupervised deep learning: An automated technique to remove swell noise from marine seismic data**: A. Singh¹, M. Ojha¹, M. Alam^{*2} (1. CSIR-NGRI, Hyderabad, India; 2. CSIR National Geophysical Research Institute (Non-Author)) (INT. AUD.: 4) Speaker: Masood Alam
- 2:10 PM..... **Geophysics informed semi-supervised and unsupervised approaches to noise attenuation**: S. Singh¹, K. Osypov¹, G. Baines² (1. Halliburton; 2. Halliburton) (INT. AUD.: 3) Speaker: Satyan Singh
- 2:35 PM..... **Deep learning-based Vz-noise attenuation for OBS data**: J. Sun¹, A. Jafargandomi¹, J. Holden¹, S. Grion^{*2} (1. Shearwater GeoServices; 2. Shearwater GeoServices (Non-Author)) (INT. AUD.: 3) Speaker: Sergio Grion

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

SS 13 SEG/AGU Hydrogeophysics

Session Chairs: Seogi Kang and Gordon Osterman

Location: 351A

Synopsis: The session will highlight studies that break new ground in data acquisition, processing, and interpretation methodologies, as well as those reporting cutting-edge developments in instrumentation and novel case histories.

1:20 PM..... **A new semi-airborne loop source TEM system for 3D mapping of groundwater and mineral resources:** P. K. Maurya¹, E. Auken¹, A. v. Christiansen², L. Liu², J. Naundrup³, A. la Cour-Harbo³, M. J. Nielsen³ (1. AarhusGeoInstruments and formerly at Aarhus university; 2. Aarhus University; 3. Aalborg University) (INT. AUD.: 3) Speaker: Pradip Maurya

1:45 PM..... **A framework for interpreting concentration samples from long-screened wells and open boreholes: Drawing on geophysical inverse methods and image appraisal:** F. Day-Lewis, R. Mackley, J. Thompson (Pacific Northwest National Lab) (INT. AUD.: 1) Speaker: Fred Day-Lewis

2:10 PM..... **A hydrogeophysical imaging and modeling approach for predicting soil water saturation during a simulated coastal flooding experiment:** K. Doro¹, M. B. Adebayo¹, V. L. Bailey², X. Chen², A. M. Hopple², P. Jiang², B. Li², Z. Li², J. P. Megonigal³, N. D. Ward² (1. The University of Toledo; 2. Pacific Northwest National Laboratory; 3. Smithsonian Environmental Research Center) (INT. AUD.: 3) Speaker: Kennedy Doro

2:35 PM..... **Understanding subsurface fluid systems with passive seismic interferometry:** S. Mao¹, M. Campillo², R. D. van der Hilst³ (1. Stanford University; 2. Institut des Sciences de la Terre; 3. Massachusetts Institute of Technology) (INT. AUD.: 2) Speaker: Shujuan Mao

SS 14 Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 1

Session Chairs: Charles Sternbach and Mike Forrest

Location: 360A

Synopsis: Explorers need to integrate geology and geophysics to find and develop significant discoveries. Building on our fifteen-year tradition of 100+ discoveries, this Discovery Thinking Forum will feature four extraordinary discovery presentations.

1:20 PM..... **70 years of creative exploration in the eastern Mediterranean:** J. Craig, A. Cozzi*, F. Lottaroli, L. Meciani (Eni) (INT. AUD.: 6) Speaker: Andrea Cozzi

2:10 PM..... **The North Slope of Alaska is home to the largest, onshore, conventional oil play in the world: A new play in a mature province, how could this be?:** W. D. Armstrong (Armstrong Oil & Gas, Inc.) (INT. AUD.: 3) Speaker: William Armstrong

AAS 2 Fracture Properties Estimation

Session Chairs: Gokay Bozkurt and Rui Zhang

Location: 371A

Synopsis: This session focuses on the technology for estimation of fracture properties.

3:40 PM..... **Elastic impedance parameterization and inversion for fracture quasi-weaknesses and quasi-Thomsen**

parameters in fractured reservoirs with monoclinic symmetry: W. Xiang², X. Yin², K. Li¹, Z. Ma² (1. China University of Petroleum (East China); 2. China University of Petroleum(East China)) (INT. AUD.: 5) Speaker: Wei Xiang

4:05 PM..... **Enhanced data constrained joint total variation regularization for multitrace AVO simultaneous inversion:** Z. Xu, S. Peng, X. Cui, Y. Lu, J. Liao (China University of Mining & Technology (Beijing)) (INT. AUD.: 5) Speaker: Zihexu

4:30 PM..... **Diffraction amplitudes as a quantitative fracture property interpretation tool:** D. C. Adams, C. Barajas-Olalde, N. Benouadah, T. L. Richards, B. A. Kurz (Energy & Environmental Research Center) (INT. AUD.: 3) Speaker: Donald Adams

4:55 PM..... **WITHDRAWN**

ACQ 1 Marine Acquisition

Session Chairs: Michele Buia and Derek Unger

Location: 372B

Synopsis: Themes in this session include low-frequency data and multi-physics for marine acquisition.

3:40 PM..... **Broadband data with a new low frequency source—acquisition and processing example from the Gulf of Mexico:** X. Shang¹, G. Baeten², h. macintyre¹, M. Kryvohuz³, P. Herrmann⁴, S. Ronen⁴ (1. Shell; 2. Shell; 3. Shell; 4. Sercel) (INT. AUD.: 2) Speaker: Xuefeng Shang

4:05 PM..... **Gemini: A fully operational broadband source for model building and imaging:** C. Udengaard¹, D. Bookes², H. Flores² (1. TGS; 2. TGS Nopec) (INT. AUD.: 3) Speaker: Carsten Udengaard

4:30 PM..... **Simultaneous-source wide-azimuth seismic acquisition using low frequency gemini source in East Mediterranean Sea:** S. Ou¹, S. Zaragoza¹, Z. Lawrence², L. Donaldson¹, C. Tapie³, K. Begay-Jackson¹, B. deMartin¹, L. Pastore⁴, G. Febriany⁴ (1. ExxonMobil; 2. ExxonMobil; 3. ExxonMobil; 4. QatarEnergy Upstream International & Exploration) (INT. AUD.: 3) Speaker: Shangli Ou

4:55 PM..... **Learnings from a unique multi-physical marine mineral acquisition across the North Mid-Atlantic Ridge:** D. Helland-Hansen¹, F. Roth², E. Nerland³, A. McKay⁴, B. Kjølhamar⁵ (1. EMGS; 2. EMGS; 3. EMGS ASA; 4. PGS; 5. TGS) (INT. AUD.: 4) Speaker: Dag Helland-Hansen

CO2 3 Regional Evaluations and Site Characterizations

Session Chairs: Martin Neumaier and Michelle Pittenger

Location: 361B

Synopsis: Evaluations of potential CCS reservoirs at the regional and site-specific scale.

3:40 PM..... **Evaluation of subsurface reservoirs for CO₂ storage potential on the Central Kansas Uplift, Kansas, USA:** J. Eleson¹, F. Hasiuk², C. Ridley², J. Raney² (1. GeoIntegra Consulting, LLC; 2. University of Kansas) (INT. AUD.: 4) Speaker: Jason Eleson

4:05 PM..... **Regional CO₂ storage resource evaluation in the Gulf of Mexico shelf using pressure-based capacity estimate:** I. Faruqi (University of Texas at Austin) (INT. AUD.: 4) Speaker: Ismail Faruqi

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

- 4:30 PM..... **Potential role of CO₂ hydrate in marine CCUS: Hydrate phase boundary considerations for the Gulf of Mexico:** Y. O. Azeez¹, I. A. Pecher^{*1}, C. Knapp², S. Alam², R. Coffin¹ (1. Texas A&M University - Corpus Christi; 2. Oklahoma State University) (INT. AUD.: 4)
Speaker: Ingo Pecher
- 4:55 PM..... **Hydrothermal reservoirs as a CO₂ storage resource in Appalachia:** R. L. Hunt, D. A. James, B. Petras (Battelle Memorial Institute) (INT. AUD.: 4) Speaker: Randall Hunt

FWI 6 Reflection

Session Chairs: Nizar Chemingui and Chao Wang

Location: 370A

- Synopsis: Imaging improvements using acoustic and elastic reflection full waveform inversion with applications in complex geology.*
- 3:40 PM..... **A robust traveltimes shifts estimation method for wave-equation reflection traveltimes inversion:** Y. Wang, J. Wang, Z. Wu, L. Dong (Tongji University) (INT. AUD.: 3)
Speaker: Yilin Wang
- 4:05 PM..... **Elastic multi-parameter full-waveform inversion application on sparse node data:** D. Vigh¹, X. Cheng², B. Bai¹, J. Xu¹, K. Glaccum¹ (1. SLB; 2. SLB) (INT. AUD.: 3)
Speaker: Denes Vigh
- 4:30 PM..... **High-fidelity full-waveform imaging via impedance inversion:** F. Chen, Y. Zhang, L. Duan, W. Han, Y. Qin, Q. Song (BGP) (INT. AUD.: 3) Speaker: Feng Chen
- 4:55 PM..... **Sub-salt model building and imaging with WAZ data: An FWI-based data-driven workflow:** N. Shah¹, M. Warner¹, A. Umpleby¹, T. Nangoo¹, H. A. Debens² (1. S-Cube; 2. Woodside Energy Ltd) (INT. AUD.: 3) Speaker: Nikhil Shah

INT 8 Case Study: Faults and Fractures

Session Chairs: Abdoulshakour Nour and Tobi Ore

Location: 362A

- Synopsis: Case studies about fault detection and fracture analysis.*
- 3:40 PM..... **High-angle seismic reflection characterization technology based on voxel fracture enhancement in metamorphic buried hill reservoir:** T. Xia, H. Liu^{*}, B. Wang, M. Gong (CNOOC (China) Limited Tianjin Branch) (INT. AUD.: 4) Speaker: Haojie Liu
- 4:05 PM..... **Exploring naturally fractured reservoirs: A case study:** A. Prakash, T. F. Aladwani, A. Nada Mohamad Amar, M. Alabdullah^{*}, A. Ahmad Homoud, A. Ali Faleh Naser, A. Talal Mutlaq Mohammed, B. Chakrabarti, R. Mulyono, V. Chilumuri, A. Thuwaini (Kuwait Oil Company) (INT. AUD.: 3) Speaker: Manayer Alabdullah
- 4:30 PM..... **Faulted feature detection based on phase congruency guided free-form anisotropy:** X. Cui¹, X. Huang¹, G. Ma², L. Fang², Y. Liao² (1. Southwest Petroleum University; 2. Research Institute of Hainan Branch Company, CNOOC) (INT. AUD.: 3) Speaker: Xiaoqing Cui
- 4:55 PM..... **Application of artificial intelligence for fault interpretation in two structurally complex deep-water fields: Shenzi, Gulf of Mexico, and Angostura, Trinidad & Tobago:** D. Eddy², H. Garcia¹ (1. Geoteric; 2. Woodside Energy) (INT. AUD.: 2) Speaker: Drew Eddy

MLDA 8 Petrophysical Analytics

Session Chairs: Bryan Guzman and Shane Prochnow

Location: 351B

- Synopsis: Machine learning and advanced analytics in petrophysical workflows*
- 3:40 PM..... **Pore structures logging identification using F-score and supervised-mode machine learning algorithms: An example from the Eocene Heterogeneous Sandstones in BZ Oilfield, Bohai Bay Basin, China:** Z. Liu¹, K. Liu^{*2} (1. CNOOC China Limited, Tianjin Branch; 2. China University of Petroleum) (INT. AUD.: 4) Speaker: Keyu Liu
- 4:05 PM..... **Diagenetic facies prediction using a LDA-assisted SSOM method for the Heterogeneous Sandstones of Huanghekou Sag, Bohai Bay Basin, China:** Y. Lu¹, K. Liu^{*2} (1. Tianjin Branch of CNOOC China Limited; 2. China University of Petroleum (Non-Author)) (INT. AUD.: 4) Speaker: Keyu Liu
- 4:30 PM..... **Quantitative estimation of petrophysical properties from core image analysis with unified machine learning modeling:** T. Lin¹, M. Mezghani², C. Xu¹, W. Li¹ (1. Aramco Americas: Aramco Research Center - Houston; 2. EXPEC ARC, Saudi Aramco) (INT. AUD.: 3) Speaker: Tao Lin
- 4:55 PM..... **Deep learning based automatic marker separation:** A. Katole¹, A. Abubakar¹, E. Hoekstra¹, S. Ryali¹, T. Zhao² (1. SLB; 2. SLB) (INT. AUD.: 4) Speaker: Atul Katole

MME 4 Mineral Exploration: Geophysical Case Studies 2

Session Chairs: Jean Legault and Xiaolei Tu

Location: 362B

- Synopsis: Application of geophysical methods, tools, and strategies for mineral exploration.*
- 3:40 PM..... **Full waveform cross-hole inversion of radio-frequency electromagnetic data: A case study from Sudbury, Canada:** P. Zheglova, A. Malcolm, C. Farquharson (Memorial University of Newfoundland) (INT. AUD.: 3) Speaker: Polina Zheglova
- 4:05 PM..... **Parallel inversion of 3D direct-current resistivity and induced polarization data using unstructured tetrahedral grids:** X. Lu¹, P. Lelièvre², C. Farquharson¹ (1. Memorial University of Newfoundland; 2. Mount Allison University) (INT. AUD.: 3) Speaker: Xushan Lu
- 4:30 PM..... **Induced polarization measurements in a physical tank model: Implications for estimating target relaxation times from field data:** N. Oncul¹, J. Kingman², L. Slater¹ (1. Rutgers University Newark; 2. Terrigena Ltd) (INT. AUD.: 3) Speaker: Nuray Oncul
- 4:55 PM..... **WITHDRAWN**

NEF 3 Critical Minerals and Extraterrestrial Resources Research

Session Chairs: Jiefu Chen and Franek Hasiuk

Location: 362C

- Synopsis: This session will include presentations focused on rare earth elements and other mineral resources on Earth and beyond.*
- 3:40 PM..... **WITHDRAWN**
- 4:05 PM..... **Understanding the occurrence of rare earth elements in sedimentary organic matter:** S. Bhattacharya¹,



Wednesday, 30 August

S. Sharma¹, V. Agrawal¹, M. Dix², T. Wagner³ (1. West Virginia University; 2. Premier Corex U.S. Laboratories; 3. Coterra Energy Inc.) (INT. AUD.: 3)
Speaker: Shailee Bhattacharya

4:30 PM..... **Critical raw materials multidisciplinary analysis: Case studies in Li, graphite, Ni-Co-Cu-Au and PGE metals:** N. Apeiranthitis¹, J. Hirani², L. Sardisco², M. Franzel³, J. Tepsell², T. Pearce^{*3}, J. Martin³ (1. Origin Analytical Ltd; 2. X-Ray Mineral Services; 3. Chemostrat) (INT. AUD.: 3)
Speaker: Timothy Pearce

4:55 PM..... **Model predictions of global geologic hydrogen resource potential:** G. Ellis¹, S. Gelman² (1. U.S. Geological Survey; 2. U.S. Geological Survey) (INT. AUD.: 2) Speaker: Geoffrey Ellis

RC 1 Fracture Systems and Dynamic Modeling

Session Chairs: Francisco Bolivar and Huyen Bui

Location: 372A

Synopsis: Integrated reservoir characterization presentations with emphasis on fluid flow and fracture system description.

3:40 PM..... **Application of reservoir dynamic modeling constrained by multiple seismic surveys:** Y. Ma¹, T. Li¹, J. Zhang², G. Lu¹, P. Wei², H. Zuo¹ (1. BGP,CNPC; 2. Dagang Oil Field,CNPC) (INT. AUD.: 3) Speaker: Yuehua Ma

4:05 PM..... **Integrated fault-and-fracture prediction of shale in Longmaxi formation of southern Sichuan Basin:** C. Xie¹, S. Wang², J. Gao¹, X. Yong¹, S. Yuan², R. He¹, E. Wang¹, G. Yan¹ (1. RIPED-Northwest(NWGI), Petrochina; 2. China University of Petroleum-Beijing) (INT. AUD.: 2)
Speaker: Chunhui Xie

4:30 PM..... **Adaptive optimization of the wellbore spatial data for more accurate reservoir characterization:** S. Al Nasser, F. Morgan (MIT) (INT. AUD.: 1) Speaker: Saleh Al Nasser

4:55 PM..... **A physics-based method for forecasting interwell connectivity using injection data:** J. Leng¹, J. Nicot¹, K. Smye², P. H. Hennings³ (1. University of Texas, Austin; 2. Bureau of Economic Geology; 3. The University of Texas at Austin) (INT. AUD.: 2) Speaker: Jianqiao Leng

RP 4 Properties of Sandstones

Session Chairs: Arpita Bathija and David Dewhurst

Location: 372C

Synopsis: This session will discuss elastic properties of sandstones and models to predict them.

3:40 PM..... **Stress-induced orthotropic anisotropy in sandstones:** C. M. Sayers¹, S. Leaney³, T. Bratton² (1. University of Houston; 2. Tom Bratton LLC; 3. SLRDC) (INT. AUD.: 3) Speaker: Colin Sayers

4:05 PM..... **Rock physics and Well log data analyses of velocity variation in Coastal Swamp sandstone reservoirs, 'Kay' Field, Niger Delta:** O. J. Allo¹, E. A. Ayolabi² (1. University of Lagos; 2. Mountain Top University) (INT. AUD.: 2)
Speaker: Olawale Allo

4:30 PM..... **Dynamic and static bulk modulus of deepwater unconsolidated sands:** Y. Wang¹, L. Zhao², D. Han³ (1. SINOPEC Geophysical Research Institute; 2. Tongji University; 3. University of Houston) (INT. AUD.: 3)
Speaker: Yang Wang

4:55 PM..... **Modeling consolidated sandstones with dispersed clay:** J. Gallop¹, L. Vernik¹, F. Contreras², J. Restrepo², C. S. Blanco², G. Alvarez² (1. Ikon Science; 2. GeoPark) (INT. AUD.: 3) Speaker: Jeremy Gallop

SILIC 3 Advances in Siliciclastic Systems Modeling and Prediction

Session Chairs: Ali Downard and Chandramani Shrivastava

Location: 361A

Synopsis: Studies on siliciclastic systems modeling and predictions. This session includes, but is not limited to, modeling, forward modeling, simulations and laboratory models.

3:40 PM..... **Closing the gap in subsurface characterization and modeling through computational stratigraphy:** T. Sun¹, A. Downard², F. Laugier³ (1. Chevron; 2. Chevron; 3. Chevron) (INT. AUD.: 3) Speaker: Tao Sun

4:05 PM..... **WITHDRAWN**

4:30 PM..... **The preferential formation of secondary porosity in the central part of sandstone units: Constraints from reactive transport modelling and petrographic study:** H. Li, R. R. Haese, J. R. Black (University of Melbourne) (INT. AUD.: 4) Speaker: Huan Li

4:55 PM..... **Quantifying temporal and spatial variations of channel migration patterns in a laboratory braided river network using particle image velocimetry:** Y. Wang¹, A. Limaye¹, A. J. Chadwick² (1. University of Virginia; 2. UC Santa Barbara) (INT. AUD.: 3) Speaker: Youwei Wang

SP 8 Machine Learning Event Detection

Session Chairs: Faqi Liu and Ramesh (Neelsh) Neelamani

Location: 371B

Synopsis: Applications of deep learning techniques for seismic event picking and conditioning.

3:40 PM..... **Comparing the representation power of transformers with U-Net: A case study on seismic first-break picking:** R. Harsuko, T. Alkhalifah (King Abdullah University of Science and Technology) (INT. AUD.: 4)
Speaker: Randy Harsuko

4:05 PM..... **U-net based primary alignment:** R. Durall Lopez, A. Ghanim, N. Ettrich (Fraunhofer ITWM) (INT. AUD.: 3)
Speaker: Ricard Durall Lopez

4:30 PM..... **Multi-realization seismic data processing with deep variational preconditioners:** M. Ravasi (KAUST) (INT. AUD.: 3) Speaker: Matteo Ravasi

4:55 PM..... **A simultaneous denoising and event-picking approach using supervised machine learning:** M. Abbasi¹, M. Alfarraj⁵, D. Borisov⁶, V. Jayaram², I. Alam⁴, B. Sarosh³ (1. Oklahoma State University; 2. Pioneer Natural Resources; 3. Pakistan Petroleum Limited; 4. University of Wisconsin-Eau Claire; 5. King Fahd University of Petroleum and Minerals; 6. Kansas University) (INT. AUD.: 2) Speaker: Muhammad Abbasi

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

SS 15 Detecting and Characterizing Orphaned Oil and Gas Wells

Session Chairs: Sina Saneiyani and Fnu Suriamin

Location: 351A

Synopsis: Recent advancements in detecting and characterizing orphaned oil and gas wells.

3:40 PM..... **Well identification efforts under the CATALOG consortium: A multi-physics strategy developed through the United States National Laboratory System:** C. Weiss¹, R. W. Hammack², G. D. Beskardes¹, A. Darrh¹, C. Kohnke², C. Morency³, S. Mukherjee³, Y. Wu⁴ (1. Sandia National Laboratories; 2. National Energy Technology Lab; 3. Lawrence Livermore National Laboratory; 4. Lawrence Berkeley National Laboratory) (INT. AUD.: 2) Speaker: Chester Weiss

4:05 PM..... **Analysis of methane emissions from orphaned oil and gas wells to identify contributing geologic and engineering factors:** N. J. Gianoutsos, K. Haase, M. Merrill, C. Karacan, P. Warwick (U.S. Geological Survey) (INT. AUD.: 3) Speaker: Nicholas Gianoutsos

4:30 PM..... **Locating undocumented orphaned oil and gas wells using geophysical techniques and smartphone magnetometry:** D. Mansourian¹, S. Saneiyani² (1. University of Oklahoma; 2. University of Oklahoma) (INT. AUD.: 3) Speaker: Danial Mansourian

4:55 PM..... **Aiding the detection and identification of abandoned and orphaned oil and gas well with predictive modeling in the GIS environment:** C. Downs, H. Eagleston, I. Oseghae (Sandia National Laboratories) (INT. AUD.: 3) Speaker: Christine Downs

SS 16 Discovery Thinking: Integrating Geology and Geophysics: Lessons from Discoveries 2

Session Chairs: Charles Sternbach and Mike Forrest

Location: 360A

Synopsis: Explorers need to integrate geology and geophysics to find and develop significant discoveries. Building on our fifteen-year tradition of 100+ discoveries, this Discovery Thinking Forum will feature four extraordinary discovery presentations.

3:40 PM..... **Discovery thinking in Namibia - The next generation of Deepwater projects:** W. Langin (Shell) (INT. AUD.: 2) Speaker: William Langin

4:30 PM..... **Recent discoveries in the Black Sea, Türkiye:** D. Kilic Demirci¹, S. Aktepe² (1. TP-OTC; 2. TP-OTC) (INT. AUD.: 4) Speaker: Derya Kilic Demirci

Thursday, 31 August

AAS 3 Anisotropy

Session Chairs: Olatayo Abimbola and Subhashis Mallick

Location: 371A

Synopsis: This session is focusing on the technology studying the anisotropy based AVO analysis.

8:00 AM..... **A decoupled orthotropic anisotropy modeling method and its application:** L. Wang, J. Liang, R. Xuan, D. Li, J. Zhu, X. Hao (BGP) (INT. AUD.: 3) Speaker: Lei Wang

8:25 AM..... **WITHDRAWN**

8:50 AM..... **Convolution model theory-based intelligent AVO inversion method for VTI media:** S. Yuhang¹, Y. Liu², H. Dong¹ (1. Northeast Petroleum University; 2. China University of Petroleum - Beijing) (INT. AUD.: 4) Speaker: Sun Yuhang

9:15 AM..... **Time-lapse full-waveform inversion for elastic TTI media:** Y. Liu¹, I. Tsvankin² (1. Colorado School of Mines; 2. Colorado School of Mines) (INT. AUD.: 3) Speaker: Yanhua Liu

ACQ 2 Survey Design and Optimization

Session Chairs: David Monk and Nicholas Peters

Location: 372B

Synopsis: Themes on acquisition design and optimization for various land and marine seismic surveys.

8:00 AM..... **Designing alternative 3D seismic surveys for reduced environmental footprints using seismic trace density parameter:** M. Naghizadeh, A. Crook, P. Vermeulen, A. Birce, S. Ross (Optiseis Solutions Ltd.) (INT. AUD.: 3) Speaker: Mostafa Naghizadeh

8:25 AM..... **Seismic land acquisition designed to identifying geology and rock properties over stacked pay interval**

using HTD 3D3C survey in the Permian Basin: B. Karr¹, A. Lewis¹, R. Bianco², S. Klug¹ (1. Fairfield Geotechnologies; 2. Fasken Oil and Ranch) (INT. AUD.: 3) Speaker: Bruce Karr

8:50 AM..... **Optimizing seismic survey design for frontier exploration in Cyprus salt basins:** C. Tapie², V. Brytik¹, S. Ou¹, L. Donaldson¹, A. Ouzounis¹, I. Fabuel-Perez¹, M. Guillois¹, D. Eke¹, S. Lee¹, M. Khalil³, G. Febriany³, L. Pastore³ (1. ExxonMobil; 2. ExxonMobil; 3. Qatar Energy Upstream International & Exploration) (INT. AUD.: 3) Speaker: Chris Tapie

9:15 AM..... **Why are receiver arrays so useful in complex near-surface environments with intense scattering noise:** A. Bakulin¹, D. Neklyudov², I. Silvestrov¹ (1. Saudi Aramco; 2. IPGG SB RAS) (INT. AUD.: 2) Speaker: Andrey Bakulin

CO2 4 Monitoring 3

Session Chairs: Carlos Fonseca and Nimisha Vedanti

Location: 361B

Synopsis: This session will focus on carbon capture and storage monitoring.

8:00 AM..... **Thermopile energy harvesting for subsurface wellbore sensors:** C. Bryan, T. Dewers, J. Heath, R. Korpella, J. Su, A. Melad (Sandia National Laboratories) (INT. AUD.: 5) Speaker: Charles Bryan

8:25 AM..... **An integrated wireless system for long-term and real-time subsurface CO₂ monitoring:** X. Li¹, C. Huang¹, M. Pan², X. Shan², J. Chen² (1. University of Houston; 2. University of Houston) (INT. AUD.: 6) Speaker: Xiaoliang Li



Thursday, 31 August

8:50 AM..... **2D seismic surveys as an alternative for CO₂ monitoring in the North Dakota CarbonSAFE Project:** C. Barajas-Olalde¹, D. C. Adams¹, H. Gonzalez², M. Zhang², P. E. Benitez², R. J. Klapperich¹, W. D. Peck¹, P. Doulgeris² (1. Energy & Environmental Research Center, University of North Dakota; 2. Delft Inversion) (INT. AUD.: 3)
Speaker: Cesar Barajas-Olalde

9:15 AM..... **Enhancing CO₂ leakage detectability via dataset augmentation:** H. Erdinc¹, A. Gahlot², M. Louboutin², F. J. Herrmann² (1. Georgia Institute of Technology; 2. Georgia Institute of Technology) (INT. AUD.: 3)
Speaker: Huseyin Tuna Erdinc

DAS 1 Case Study: Offshore

Session Chairs: Joel Le Calvez and Ge Zhan

Location: 372C

Synopsis: Exploring offshore applications: Case studies in distributed acoustic sensing for enhanced seismic imaging.

8:00 AM..... **Multi-well 3D DAS-VSP data acquisition for offshore exploration in the Middle East:** Q. Li², G. Yu^{*1}, J. Zhao², Y. Fan¹, D. Huang² (1. BGP Inc; 2. Optical Science and Technology (Chengdu) Ltd.) (INT. AUD.: 2)
Speaker: Gang Yu

8:25 AM..... **DAS on conventional subsea telecom fiber-optic cables opens the door to permanent reservoir monitoring:** P. Solans³, E. Zamboni³, A. S. Calvert¹, A. Grandi³, J. Fasterling³, M. Radigon² (1. TotalEnergies; 2. CGG; 3. TotalEnergies) (INT. AUD.: 2) Speaker: Philippe Solans

8:50 AM..... **How far can we go with seabed DAS? PS converted wave imaging and improving P-wave:** A. S. Calvert¹, E. Zamboni¹, J. BRUNELLIERE¹, A. Grandi¹, K. LIAO², M. Galyga², H. Moore² (1. TotalEnergies; 2. CGG) (INT. AUD.: 3) Speaker: Alexander Calvert

9:15 AM..... **Specialized processing of a massive distributed acoustic sensing (DAS) 3D-VSP in a producing well:** A. Y. Sayed¹, F. Twynam¹, R. Bachrach¹, P. Caprioli¹, M. R. Holloway¹, Q. Li², R. Biswas², D. Tebo², S. Buist² (1. SLB; 2. BP) (INT. AUD.: 2) Speaker: Ali Sayed

FWI 7 New Advances

Session Chairs: Jianxiong Chen and Vikas Gudipati

Location: 370A

Synopsis: New advances in full waveform inversion imaging using higher order elastic physics and applications in land, shallow and deep waters.

8:00 AM..... **Elastic FWI Imaging of a complex pre-salt structure using NATS data:** A. H. Rodrigues Santos, L. Felão, S. Barragan, F. Jouno (CGG) (INT. AUD.: 2)
Speaker: Arthur Rodrigues Santos

8:25 AM..... **Meeting the imaging challenges at Atlantis with high-frequency elastic FWI:** A. Hao¹, C. Chen¹, Z. Wei², J. Mei³, L. Jiang⁴, S. Buist⁴, O. Egbue⁴, L. Lopez⁴, D. Tebo⁴ (1. CGG; 2. CGG; 3. CGG; 4. bp) (INT. AUD.: 3)
Speaker: Alex Hao

8:50 AM..... **FWI imaging of complex subsalt mesozoic targets from land to shallow waters:** T. Dy¹, M. Wang¹, S. Mothi¹, D. Dobesh¹, S. Ding¹, O. Andrade², P. Ortega², A. Vázquez

Cantú³, S. Domínguez García³, G. López Leyva³ (1. CGG; 2. CGG; 3. PEMEX) (INT. AUD.: 3) Speaker: Timmy Dy

9:15 AM..... **Multi-parameter FWI imaging in the Gulf of Mexico:** T. Rayment, K. Dancer, J. McLeman, J. Penwarden, T. Ooi, M. Hartmann (DUG Technology) (INT. AUD.: 2)
Speaker: Tom Rayment

HPG 1 History of Petroleum Geology

Session Chairs: Cara Hunter and Ali Sloan

Location: 362B

Synopsis: The past is the key to the present. Case studies in exploration and development of petroleum resources over the last 100 years can continue to teach us about future opportunities.

8:00 AM..... **ACGGP Regional Pedagogy Program: catalyst in the O&G industry construction of ESG strategies in Colombia:** F. Rodriguez-Portillo, L. A. Becerra Silva, L. Cárdenas, C. Ortega, L. Hernández (ACGGP) (INT. AUD.: 3) Speaker: Flover Rodriguez-Portillo

8:25 AM..... **The Middle East in the oil world: Past landmarks and new bearings:** R. Sorkhabi (University of Utah) (INT. AUD.: 1) Speaker: Rasoul Sorkhabi

8:50 AM..... **Geophysics impact on success in energy exploration and exploitation for the last 100 years: Enabling technology evolved within a quasistatic theoretical basis:** N. J. House (Integrated Geophysical Interpretation Inc., LLC) (INT. AUD.: 3) Speaker: Nancy House

9:15 AM..... **Geologic concepts that opened exploration and development of the West Texas (Permian) Basin, 1915 – 1929:** B. Fairhurst (Riverford Exploration, LLC and Spears School of Business, Oklahoma State University) (INT. AUD.: 3) Speaker: Bill Fairhurst

INT 9 Interpretation and Inversion 1

Session Chairs: Ahmed Al-Dawood and Oswaldo Davogustto

Location: 362A

Synopsis: New workflows and algorithms for seismic interpretation and inversion.

8:00 AM..... **Overcoming 3D seismic resolution issues in a Turbiditic complex field – US GoM:** A. J. Marini, R. Lotti, M. Ferla, V. Zornotti, A. Corrao, L. Bianchin, R. Martin (Natural Resources Eni SpA) (INT. AUD.: 3)
Speaker: Alfonso Marini

8:25 AM..... **Seismic structure-oriented filtering on the flattened seismic traces:** S. Li, H. J. Gao, J. Gui, X. Guo, H. Pan (PetroChina Research Institute of Petroleum Exploration & Development NorthWest) (INT. AUD.: 2)
Speaker: Shengjun Li

8:50 AM..... **Fault fine recognition based on frequency division data:** H. Zhang, J. Ma, T. Wei, S. Li, L. Niu (CNOOC) (INT. AUD.: 3) Speaker: Heng Zhang

9:15 AM..... **Fracture characterization of the Triassic reservoir in the Caswell Rift Sub-basin (Browse Basin), Northwest Shelf of Australia:** O. A. Aziz, D. Harishidayat, I. S. Abu-Mahfouz, K. Ayranci (King Fahd University of Petroleum and Minerals) (INT. AUD.: 3) Speaker: Osama A. Aziz

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

MLDA 9 Inversion and Property Estimation 2

Session Chairs: Reetam Biswas and Jie Qi

Location: 351B

Synopsis: Applied machine learning for subsurface property estimation and joint inversion.

- 8:00 AM..... **Fracture-cavity carbonate reservoir identification based on channel attention mechanism:** L. Yang, Y. Ma (SINOPEC Geophysical Research Institute) (INT. AUD.: 3) Speaker: Liuxin Yang
- 8:25 AM..... **Estimating soil properties of an offshore windfarm site by deep neural networks:** H. Di¹, A. Abubakar² (1. Schlumberger; 2. Schlumberger) (INT. AUD.: 2) Speaker: Haibin Di
- 8:50 AM..... **Estimating elastic properties from angle-stack seismic data via deep neural networks:** H. Di, A. Abubakar (SLB) (INT. AUD.: 2) Speaker: Haibin Di
- 9:15 AM..... **Two-stage deep learning for 3D joint inversion of gravity and magnetic:** Y. Li², Z. Jia¹, C. Song², W. Lu² (1. Changsha University Of Science And Technology; 2. Tsinghua University) (INT. AUD.: 3) Speaker: Yinshuo Li

RC 2 Seismic Inversion Methods

Session Chairs: Henry Campos and Gabriel Gil

Location: 372A

Synopsis: Integrated reservoir characterization work involving advanced seismic inversion methods.

- 8:00 AM..... **Methods of estimating wavelet stationarity, stabilizing non-stationarity, and evaluating its impact on inversion: A synthetic example using SEAM II Barrett unconventional model:** M. Fry², J. Buckner^{*1}, J. Zuech¹, P. Harris¹, B. Shea¹ (1. Sharp Reflections, INC.; 2. BP) (INT. AUD.: 5) Speaker: Jesse Buckner
- 8:25 AM..... **Improved facies constraint stochastic inversion applied to sedimentary fans of basin steep slope zone:** S. Lyu (Exploration and Development Research Institute of Shengli Oilfield, Sinopec) (INT. AUD.: 3) Speaker: Shichao Lyu
- 8:50 AM..... **Application of seismic motion inversion in thin reservoir prediction:** S. Li¹, p. gang¹, J. Wang¹, T. Wei² (1. CNOOC; 2. CNOOC) (INT. AUD.: 5) Speaker: Shaoxuan Li
- 9:15 AM..... **Fan delta reservoir prediction technology based on pre-stack facies-controlled inversion:** Z. Zhang¹, J. Wang¹, T. Liu², D. Hou¹, Z. Zuo¹ (1. CNOOC; 2. China National Offshore Oil Corporation (CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Zhongqiao Zhang

SILIC 4 Applied Chemostratigraphy, Biostratigraphy and Provenance Studies

Session Chairs: Lawrence Febo and Ryan Weber

Location: 361A

Synopsis: High-tech integrated and multidisciplinary source-to-sink, provenance, chemostratigraphy and biostratigraphy research is critical to understand Earth's past and present to plan for future scenarios.

- 8:00 AM..... **High-resolution chemostratigraphy and bulk mineralogical characterization of the Wilcox: A complimentary new multi-disciplinary approach to enhanced stratigraphic correlation:** T. Pearce², D. Riley^{*3}, E. Daneshvar¹, N. Champion⁴, G. Hildred², J. Hirani⁵ (1. Future Geoscience Limited; 2. Chemostrat

Inc; 3. Chemostrat Ltd; 4. Petrostrat Ltd; 5. X ray mineral Services) (INT. AUD.: 4) Speaker: David Riley

- 8:25 AM..... **Principal components and discriminant function analyses for chemostratigraphic correlations:** N. A. Michael¹, C. Scheibe² (1. Saudi Aramco; 2. GLOD, Saudi Aramco) (INT. AUD.: 3) Speaker: Nikolaos Michael
- 8:50 AM..... **The application of a high resolution palynostratigraphic framework to assist correlating the Wilcox Group from source to sink:** P. A. Cornick¹, N. Champion¹, I. Prince³, R. Hackworth² (1. PetroStrat Ltd; 2. Chevron Energy Technology Company; 3. Shell E&P inc.) (INT. AUD.: 3) Speaker: Paul Cornick
- 9:15 AM..... **A new portal to sediment provenance: Prima Facie identification of source rocks via high-end mudstone petrography - illustrated with examples from the Quaternary of the Central Adriatic:** J. Schieber¹, C. Pellegrini², D. Bish¹, T. Tesi², A. Asoli², I. Sammartino², F. Trincardi² (1. Indiana University; 2. ISMAR-CNR) (INT. AUD.: 3) Speaker: Juergen Schieber

SP 10 Seismic Data Interpolation and Regularization 2

Session Chairs: Adel Khalil and Derek Unger

Location: 371B

Synopsis: Advanced solutions for seismic data interpolation, including machine learning approaches.

- 8:00 AM..... **Slopepinn: Physics informed neural network slope prediction and interpolation with positional encoding:** F. Brandolin¹, M. Ravasi², T. Alkhalifah² (1. King Abdullah University of Science and Technology (KAUST); 2. KAUST) (INT. AUD.: 1) Speaker: Francesco Brandolin
- 8:25 AM..... **Self-supervised learning POCS-Net for seismic data interpolation:** Y. Chen¹, S. Yu¹, Y. Guo² (1. Harbin Institute Of Technology; 2. University of Alberta) (INT. AUD.: 3) Speaker: Yao Chen
- 8:50 AM..... **Deep nonlinear seismic prior for seismic interpolation:** Y. Sui¹, X. Wang², J. Ma³ (1. Aramco Research Center - Beijing; 2. Beijing Jiaotong University; 3. Peking University) (INT. AUD.: 3) Speaker: Yuhan Sui
- 9:15 AM..... **WITHDRAWN**

SP 9 Multiple Removal Techniques 2

Session Chairs: Shaoping Lu and Adriana C Ramirez

Location: 360A

Synopsis: Various solutions for attenuating multiple reflections in seismic data.

- 8:00 AM..... **WITHDRAWN**
- 8:25 AM..... **An automated cost-effective 3D surface-related multiple estimation workflow:** Z. Yan, S. Slaton, M. Vassallo, W. Sanger (SLB) (INT. AUD.: 3) Speaker: Zhimei Yan
- 8:50 AM..... **Marchenko-based internal multiple attenuation feasibility analysis for a thin-layered media in ultra-shallow water OBN from offshore Middle East:** F. Xavier de Melo¹, S. Chen¹, S. Nakayama², N. Yamamoto², L. Arechiga Salinas¹ (1. Slb; 2. INPEX Corporation) (INT. AUD.: 3) Speaker: Frederico Xavier de Melo
- 9:15 AM..... **Elimination of free-surface multiple by least-squares redatuming:** F. Zhu, J. Cheng, T. Wang (Tongji University) (INT. AUD.: 1) Speaker: Feng Zhu

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

SS 17 Long Term Geophysical Monitoring of Near Surface Processes

Session Chairs: Adrian Flores Orozco and Dimitrios Ntarlagiannis

Location: 351A

Synopsis: State of the art on 4D geophysical monitoring for near surface applications.

- 8:00 AM..... **Spectral induced polarization monitoring to understand seasonal and annual variations in the frequency dependence of the subsurface electrical properties of frozen ground at a high-alpine mountain permafrost site in the European Alps:** T. Maierhofer¹, A. Flores Orozco², N. Roser², J. K. Limbrock³, A. Kemna³, U. Morra di Cella⁴, C. Hauck¹ (1. University of Fribourg; 2. TU-Wien; 3. University of Bonn; 4. Environmental Protection Agency of Aosta Valley (ARPA)) (INT. AUD.: 5) Speaker: Theresa Maierhofer
- 8:25 AM..... **High resolution non-invasive characterization and monitoring of the shallow subsurface at a UNESCO world heritage archaeological site:** G. Cassiani¹, I. Barone², M. Pavoni², J. Boaga¹, R. Deiana³ (1. University of Padua; 2. University of Padua; 3. University of Padua) (INT. AUD.: 4) Speaker: Giorgio Cassiani
- 8:50 AM..... **Enhancing geoscientific understanding through autonomous monitoring of hydrological and biogeochemical processes with time-lapse electrical resistivity:** R. Versteeg¹, R. Soltanian², M. Van Der Werf³, G. Partridge¹, D. Johnson¹ (1. Subsurface Insights; 2. University of Cincinnati; 3. Metinco) (INT. AUD.: 2) Speaker: Roelof Versteeg
- 9:15 AM..... **Real-time 4d electrical resistivity tomography monitoring of in situ soil and groundwater contaminant remediation:** T. C. Johnson (Pacific Northwest National Laboratory) (INT. AUD.: 3) Speaker: Tim Johnson

STGM 1 Structural Interpretation, Geomechanical Modeling, and Geophysics

Session Chairs: Seth Buseti and Alissa Henza

Location: 362C

Synopsis: Studies focused on structural interpretation and geomechanical modeling, with emphasis on subsurface waste disposal and seismic hazard.

- 8:00 AM..... **Structural characterization, kinematic analysis, and rupture hazard assessment of faults in the Permian Basin, Texas and New Mexico:** E. A. Horne, P. H. Hennings, K. Smye, A. Calle, A. Morris (University of Texas at Austin) (INT. AUD.: 3) Speaker: Elizabeth Horne
- 8:25 AM..... **Stress and deformation response to production and shallow injection in the Permian Basin: Insights from geomechanical models:** K. Smart¹, A. J. Cawood¹, D. Ferrill¹, K. Smye², P. H. Hennings² (1. Southwest Research Institute; 2. Bureau of Economic Geology) (INT. AUD.: 3) Speaker: Kevin Smart
- 8:50 AM..... **In-situ pressure and seismic monitoring of storage and disposal reservoirs in North-central Oklahoma:** N. W. Hayman¹, B. Allen¹, J. Walter¹, F. Suriamin², P. Ogwari¹, K. Murray³ (1. University of Oklahoma; 2. University of Oklahoma; 3. Murray Geoconsulting, LLC) (INT. AUD.: 3) Speaker: Nicholas Hayman
- 9:15 AM..... **Basin scale geomechanical modeling during seismic processing: Pelotas Basin, offshore Brazil:** M. Fetter,

G. Lenz, R. M. Pessoa, U. B. da Silva, T. Zanato, V. Wernck de Carvalho, P. Crampes, P. Sousa, R. Stern, M. Cetale (Universidade Federal Fluminense) (INT. AUD.: 3) Speaker: Marcos Fetter

AAS 4 Reservoir Property Estimation

Session Chairs: Norbert Van De Coevering and Simon Voisey

Location: 371A

Synopsis: This session focuses on the estimation of the reservoir properties from AVO inversion technique.

10:20 AM.... **WITHDRAWN**

10:45 AM.... **Semi-quantitative prediction of hydrocarbon gas saturation in carbon dioxide enrichment areas in the South China Sea deepwater:** L. Xu, W. Zhang, X. Liu*, H. Liu, J. Yang, Y. Ma (China National Offshore Oil Corporation) (INT. AUD.: 4) Speaker: Xumin Liu

11:10 AM **Estimation of reservoir properties using a prestack seismic probabilistic inversion in gas-bearing tight sandstone reservoirs:** Y. Zeng, Z. Zong, K. Li (China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Yongjian Zeng

11:35 AM.... **WITHDRAWN**

ACQ 3 CCS and Marine Vibrators

Session Chairs: Zhao Jie and Mike Yates

Location: 372B

Synopsis: This session showcases a few new methods on CCS monitoring and recent research progresses on marine vibrators.

- 10:20 AM.... **A novel and low-cost seismic acquisition system consisting of permanent controlled linear vibratory sources and new autonomous seismic sensors for CCS/CCUS site characterization, plume front mapping and real-time seismicity monitoring:** N. J. Brooks¹, T. Chen¹, S. Li¹, X. Fang¹, G. Knapo¹, H. Wilkinson² (1. SensorEra Inc; 2. GreenPowerUSA Inc) (INT. AUD.: 2) Speaker: Nicholas Brooks
- 10:45 AM.... **Novel high and ultra-high resolution towed streamer 3D acquisition solutions for new energy applications:** M. Widmaier², C. Roalkvam¹, O. Orji² (1. PGS; 2. PGS) (INT. AUD.: 3) Speaker: Martin Widmaier
- 11:10 AM **Extending seismic bandwidth using the harmonic energy of a marine vibrator source:** T. Wang, A. Jafargandomi, H. Aune (Shearwater geoservices) (INT. AUD.: 3) Speaker: Tiexing Wang
- 11:35 AM **Value of marine vibrators for effective frequency-dependent spatial sampling of seismic wavefield:** A. Jafargandomi, A. Nath, S. Grion* (Shearwater Geoservices) (INT. AUD.: 3) Speaker: Sergio Grion
- CO2 5 Monitoring 4**
Session Chairs: Joel Le Calvez and Marie Macquet
Location: 361B
Synopsis: This session will focus on carbon capture and storage monitoring.
- 10:20 AM.... **Robust time-lapse interpretation of seismic images using unsupervised deep learning applied to geologic carbon storage (GCS):** M. Park, J. O. Frigerio, R. G.

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

- Clapp, B. Biondi (Stanford University) (INT. AUD.: 3)
Speaker: Min Jun Park
- 10:45 AM.... **Incorporating refraction time-shifts into geophysical monitoring systems for monitoring shallow CO₂ accumulations:** M. Steel², G. Busanello¹, M. Branston¹, M. Paydayesh¹, S. de Ridder³ (1. SLB; 2. The University of Edinburgh; 3. University of Leeds) (INT. AUD.: 4) Speaker: Martyn Steel
- 11:10 AM **Real-time and quantitative monitoring of CO₂ injection with rapid-repeat time-lapse vertical seismic profile data:** X. Cai², K. Innanen², Q. Hu², S. Keating², M. V. Eaid², D. Lawton¹ (1. Carbon Management Canada; 2. CREWES Project, University of Calgary) (INT. AUD.: 3) Speaker: Xiaohui Cai
- 11:35 AM **Coupled physics inversion for geological carbon storage monitoring:** Z. Yin¹, M. Louboutin², O. Møyner³, F. J. Herrmann⁴ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. SINTEF Digital; 4. Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Ziyi Yin

DAS 2 Seismic Analysis and Inversion

Session Chairs: Milad Bader and Andres Chavarria

Location: 372C

Synopsis: Advanced seismic analysis and inversion techniques for distributed acoustic sensing data.

- 10:20 AM.... **Time-lapse logging with direct-wave amplitudes of waves from active and passive sources:** R. Pevzner¹, P. Shashkin¹, B. Gurevich^{*1}, K. Tertyshnikov¹, S. Yavuz¹, R. Isaenkov¹, S. Glubokovskikh², J. Correa², T. J. Wood², B. Freifeld³ (1. Curtin University; 2. Lawrence Berkeley National Laboratory; 3. Class VI Solutions) (INT. AUD.: 3) Speaker: Boris Gurevich
- 10:45 AM.... **DAS-recorded P wave generated from perforation shot: an insight from numerical simulation:** P. Li¹, G. Jin² (1. Colorado School of Mines; 2. Colorado School of Mines) (INT. AUD.: 3) Speaker: Peiyao Li
- 11:10 AM **Exploring the resolution in mini-batch acoustic FWI of land DAS VSP datasets:** V. Kazei¹, H. Liang², A. Shaiban³, A. Dawood³ (1. Aramco Americas; 2. Aramco Americas; 3. Saudi Aramco) (INT. AUD.: 2) Speaker: Vladimir Kazei
- 11:35 AM **Near surface investigation of the Newell County Facility based on FWI using trench and VSP DAS data:** L. Qu¹, W. Pan², K. Innanen¹ (1. university of calgary; 2. Institute of Geology and Geophysics, Chinese Academy of Sciences) (INT. AUD.: 4) Speaker: Luping Qu

FWI 8 Theory and Methods 1

Session Chairs: Alison Malcolm and Haiyang Wang

Location: 370A

Synopsis: Advances in full waveform inversion for time-lapse and near surface application space incorporating higher levels of physics.

- 10:20 AM.... **Time-lapse FWI prediction of CO₂ saturation and pore pressure:** Q. Hu¹, K. Innanen² (1. University of Calgary; 2. University of Calgary) (INT. AUD.: 3) Speaker: Qi Hu
- 10:45 AM.... **WITHDRAWN**
- 11:10 AM **Robust multi-bin wave equation dispersion inversion methods for high-resolution seismic imaging of near-**

surface geology: Z. Liu¹, Y. Luo^{*2}, B. Eppinger³ (1. Ocean University of China; 2. Cloudstream Medical Imaging Company; 3. Virginia Tech) (INT. AUD.: 3) Speaker: Yi Luo

- 11:35 AM **Simultaneous inversion of velocity and angle-dependent reflectivity:** Y. Yang¹, N. Chemingui^{*2}, J. Ramos-Martinez³, D. Whitmore¹ (1. PGS; 2. PGS; 3. PGS) (INT. AUD.: 3) Speaker: Nizar Chemingui

GCHEM 1 Geochemistry and Petroleum Systems

Session Chairs: Oliver Mullins and Martina Torelli

Location: 362B

Synopsis: Geochemical methods and properties to constrain petroleum and charge systems.

- 10:20 AM.... **Geochemical fingerprinting of facies and environments across a 10⁶-year delta cycle in the Paleocene Lower Wilcox Group:** A. Hessler¹, E. Sivil², I. Olariu², X. Liu³, V. Smith³, M. A. Lorente³, L. G. Moscardelli² (1. The Deep Time Institute; 2. Bureau of Economic Geology -- The University of Texas at Austin; 3. Ellington Geological Services) (INT. AUD.: 3) Speaker: Angela Hessler
- 10:45 AM.... **Use of coupled organic-inorganic tracers to constrain hydrocarbon migration and accumulation sequences:** M. Abu Alreesh¹, C. Sandu², K. Arouri³, P. Srinivasan² (1. Aramco; 2. Aramco Americas; 3. Aramco) (INT. AUD.: 5) Speaker: Mohammed Abu Alreesh
- 11:10 AM **Geochemical characteristics of Paleozoic and Triassic petroleum systems in Kuwait:** M. Al-hajeri (Kuwait Oil Company) (INT. AUD.: 6) Speaker: Mubarak Al-hajeri
- 11:35 AM **Chemostratigraphic analysis as a powerful tool for reservoir characterization of injection wells: Enhancing data acquisition for epa class i and class vi permit applications:** A. Liborius¹, A. SIMONE², D. TONNER¹, S. Hughes¹, C. MAYORGA¹ (1. Diversified Well Logging; 2. Geostock Sandia) (INT. AUD.: 2) Speaker: Andreina Liborius

INT 10 Interpretation and Inversion 2

Session Chairs: Haibin Di and Yanrui Ning

Location: 362A

Synopsis: New workflows and algorithms for seismic interpretation and inversion.

- 10:20 AM.... **WITHDRAWN**
- 10:45 AM.... **Application of Bayesian Stochastic Inversion based on multi-wavelet frequency reconstruction in thin interbedded reservoir prediction:** P. Zhang, H. Tang, Z. Zhang, B. Li (China National Offshore Oil Corporation (CNOOC) Ltd Tianjin Branch) (INT. AUD.: 3) Speaker: Pengzhi Zhang
- 11:10 AM **Artificial intelligence fault interpretation applied to a geologically complex area - A case study in the South Texas Lobo Trend:** H. Garcia¹, C. L. Cabarcas² (1. Geoteric; 2. Hilcorp Energy) (INT. AUD.: 2) Speaker: Hugo Garcia
- 11:35 AM **Detailed characterization of complex fluvial facies sand body based on Bayesian probability statistics:** G. Li, J. Wang, H. Tang, Z. Zhang (CNOOC) (INT. AUD.: 3) Speaker: Guorui Li

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

MLDA 10 Reservoir Modeling 2

Session Chairs: Sailendra Mahapatra and Salma Sinan

Location: 351B

Synopsis: *Enhancing reservoir modeling with machine learning applications.*

- 10:20 AM.... **Generative seismic kriging with normalizing flows:** R. Orozco¹, M. Louboutin², F. J. Herrmann³ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Rafael Orozco
- 10:45 AM.... **Interpretable transformer-based surrogate model for shale gas production forecast and analysis integrating multimodal static and dynamic data:** T. Ye¹, J. Chang¹, Y. Xiao¹, Y. Zhao², C. He² (1. Sinopec Petroleum Exploration and Production Research Institute; 2. Sinopec Southwest Petroleum Bureau Exploration and Production Research Institute) (INT. AUD.: 3) Speaker: Tianrui Ye
- 11:10 AM.... **A subsurface machine learning approach at hydrocarbon production forecast and resource estimates for unconventional reservoirs:** S. Prochnow¹, N. S. Raterman², M. Swenberg² (1. Chevron Technology Center; 2. Chevron) (INT. AUD.: 3) Speaker: Shane Prochnow
- 11:35 AM.... **WITHDRAWN**

RC 3 Methods and Case Studies 2

Session Chairs: Carla Carvajal and Raul Cova

Location: 372A

Synopsis: *Case studies and applications of advanced characterization methods.*

- 10:20 AM.... **Leveraging first-ever OBN in India for integrated reservoir characterization in a carbonate field at Offshore Mumbai, India:** R. K. Soni, S. K. Goswami, A. Mukherjee (SLB) (INT. AUD.: 3) Speaker: Rajesh Soni
- 10:45 AM.... **Utilizing Bayesian discriminative classification with kernel density estimation for rock and fluid property characterization of seismic elastic inversion results:** K. Wolf¹, J. Zhang², M. Walker¹, P. Paramo¹, J. Winterbourne¹, R. Biswas¹, A. Roy¹, C. Decalf¹ (1. bp; 2. bp) (INT. AUD.: 3) Speaker: Kevin Wolf
- 11:10 AM.... **Geophysical characterization of stratigraphic traps within the slope failure turbidite channel of Torok formation, north slope of Alaska:** S. Dasgupta, C. Inyang, S. Riseman, D. Ruckel (Slb) (INT. AUD.: 3) Speaker: Sagnik Dasgupta
- 11:35 AM.... **Discussion on application of instantaneous wavelet absorption technology based on well seismic matching in Bohai K Oilfield:** F. Li, T. Wei, J. Ma, C. Wang (Bohai Petroleum Research Institute) (INT. AUD.: 2) Speaker: Fuqiang Li

SILIC 5 Reservoir Characterization of Siliciclastic Systems 2

Session Chairs: Yuqian (Philomena) Gan and Ryan Wilson

Location: 361A

Synopsis: *Characterization of reservoirs at grain-to-grain scale to the utilization of outcrop analogs to inform about the subsurface, with focus on petrographic and sedimentologic controls and application of technology.*

- 10:20 AM.... **Quantifying and qualifying reservoir characteristics and processes for upper-flow-regime river systems**

using the Triassic Dockum Group of West Texas: J. M. Holbrook¹, S. P. Walker² (1. Texas Christian University; 2. TCU) (INT. AUD.: 3) Speaker: John Holbrook

- 10:45 AM.... **Multi-scale joint characterization of braided river dominant facies: a case study of C1 oilfield in the Bohai Bay basin:** F. Wang, Z. Zhang, H. Song, J. Guo, X. Zhang (Bohai Oilfield Research Institute, Tianjin Branch of CNOOC Ltd.) (INT. AUD.: 4) Speaker: Feiteng Wang
- 11:10 AM.... **Impact of long-term climate on fluvial architecture in the Bighorn Basin, Wyoming:** Y. Wang³, T. F. Baars¹, J. E. Storms¹, A. W. Martinus¹, P. D. Gingerich², H. A. Abels¹ (1. Delft University of Technology; 2. Museum of Paleontology, University of Michigan; 3. University of Virginia) (INT. AUD.: 3) Speaker: Youwei Wang
- 11:35 AM.... **Evolution of the depositional environment of the Roseneath-Epsilon-Murteree (REM) strata in the Cooper Basin, Australia: A multidisciplinary revisit with new data:** F. Guo¹, P. McCabe², Z. Feng¹, Z. Zhang¹, J. Guo¹ (1. SINOPEC Petroleum Exploration & Production Research Institute (PEPRIS); 2. The University of Adelaide) (INT. AUD.: 3) Speaker: Fengtao Guo

SP 11 Wavefield Separation and Deconvolution

Session Chairs: Cory Hoelting and Gordon Poole

Location: 360A

Synopsis: *Applications of advanced deconvolution techniques in seismic data processing.*

- 10:20 AM.... **Deterministic vibroseis stabilization: Deconvolution operators from signature recording:** D. Blymyer¹, S. Riseman², G. Busanello² (1. Occidental; 2. SLB) (INT. AUD.: 3) Speaker: Dustin Blymyer
- 10:45 AM.... **Sub-seafloor reflectivity estimation by upgoing wavefield deconvolution:** H. Masoomzadeh, T. Seher, M. Zuberi (TGS) (INT. AUD.: 3) Speaker: Hassan Masoomzadeh
- 11:10 AM.... **Can tile low-rank compression live up to expectations? An application to 3D multi-dimensional deconvolution:** Y. Hong², M. Ravasi¹, H. Ltaief², D. E. Keyes² (1. KAUST; 2. Extreme Computing Research Center, KAUST) (INT. AUD.: 4) Speaker: Yuxi Hong
- 11:35 AM.... **A case study of TORT migration imaging of strike-slip faults in Mahu area, Junggar Basin:** H. Huang², D. Li¹, W. Chai¹, H. Gu¹, Y. Lv¹, Y. Wang¹, L. Huang¹, W. Luo¹ (1. BGP, CNPC; 2. BGP, CNPC) (INT. AUD.: 5) Speaker: Hanqing Huang

SP 12 Noise Removal 2

Session Chairs: Todd Jones and Sissy Theisen

Location: 371B

Synopsis: *Denoising methods for seismic data using various techniques such as independent component analysis, self-supervised noise suppression, and dictionary learning.*

- 10:20 AM.... **Denoising method based on weak signal sensing:** J. Song, S. Zhao, Y. Su, Z. Li (China university of petroleum) (INT. AUD.: 3) Speaker: Jianguo Song
- 10:45 AM.... **Identification of microseismic signals based on empirical mode decomposition and independent component analysis method:** H. Meng¹, X. Xu¹, H. Zeng¹, J. Sun¹, D. Li¹, C. WANG² (1. Research Institute of Petroleum Exploration & Development-Northwest (NWGI), Petrochina; 2. Mud-

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

- logging Company of Great Wall Drilling Company) (INT. AUD.: 3) Speaker: Huijie Meng
- 11:10 AM **Self-supervised noise suppression for seismic while drilling applications:** C. Birnie¹, S. Liu^{*1}, A. Dawood², A. Bakulin², T. Alkhalifah¹ (1. King Abdullah University of Science and Technology; 2. Saudi Arabian Oil Co) (INT. AUD.: 4) Speaker: Sixiu Liu
- 11:35 AM **WITHDRAWN**

SS 18 Innovative Crossover Technologies between the Oil and Gas and Near-Surface and Mineral Sectors

Session Chairs: Cengiz Esmersoy and Geoff Pettifer

Location: 351A

Synopsis: This session aims to showcase how the oil and gas sector capabilities can be used in near-surface and mineral geophysics applications.

- 10:20 AM.... **Scalable machine learning: bridging the divide, encouraging new applications in oil, and gas, and near surface environmental and engineering geophysics:** S. Mukherjee (EmPact-AI) (INT. AUD.: 2) Speaker: Souvik Mukherjee
- 10:45 AM.... **Downhole deep-reading measurements – Potential crossover to mining:** C. Esmersoy (Consultant) (INT. AUD.: 1) Speaker: Cengiz Esmersoy
- 11:10 AM **The potential for joint industry co-operatives generating numerical benchmarks for near surface geophysics:** W. Abriel¹, N. Moldoveanu³, S. Oakley² (1. Orinda Geophysical; 2. SEG Advanced Modeling Corporation; 3. Independent Consultant) (INT. AUD.: 3) Speaker: William Abriel
- 11:35 AM **Earth, wind and fire: Transitioning p-cable technology from oil and gas to offshore wind:** L. Scott (PGS) (INT. AUD.: 3) Speaker: Larry Scott

STGM 2 Natural and Induced Fractures, and Fluid Flow

Session Chairs: Adam Cawood and Julia Gale

Location: 362C

Synopsis: Studies focused on faults and fractures, and the associated effects on subsurface fluid flow.

- 10:20 AM.... **Natural and hydraulic fractures: continuing relevance in petroleum reservoirs, and new applications in low-enthalpy geothermal and carbon storage in unconventional reservoirs:** J. F. Gale¹, S. E. Laubach¹, E. Ukar¹, S. J. Elliott¹, A. Fall¹, S. Peng¹, J. E. Olson² (1. The University of Texas at Austin; 2. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Julia Gale
- 10:45 AM.... **Reactive fracture processes: Relevance for the new energy economy:** P. Eichhubl¹, N. Doungkaew¹, X. Chen², O. Callahan¹ (1. University of Texas at Austin; 2. Texas A&M University) (INT. AUD.: 3) Speaker: Peter Eichhubl
- 11:10 AM **Transition to strike-slip dominance in the Death Valley to the Sierra Nevada with special emphasis on faulting in young sediments of the Panamint Valley:** I. C. Pall, M. Gordon^{*} (Independent) (INT. AUD.: 3) Speaker: Mark Gordon
- 11:35 AM **Bedding fractures in continental shale and their contribution to reservoirs: A case study from the Permian Fengcheng Formation in the northwestern Junggar Basin of China:** L. Guoping (Peking University) (INT. AUD.: 5) Speaker: Liu Guoping

AAS 5 Novel Technologies

Session Chairs: Son Phan and Rui Zhang

Location: 371A

Synopsis: This session focuses on the novel techniques on AVO inversion and anisotropy.

- 1:20 PM..... **Synthetic-data-driven deep learning method for elastic parameter inversion:** S. Sun¹, L. Zhao¹, J. Geng¹, H. Chen¹, Z. He² (1. Tongji university; 2. Department of Science and Technology, SINOPEC) (INT. AUD.: 5) Speaker: Shuai Sun
- 1:45 PM..... **Exact kinematic behavior of the P-Sv converted wave in a vertical transversely isotropic medium:** G. Cambois (ADNOC) (INT. AUD.: 3) Speaker: Guillaume Cambois
- 2:10 PM..... **InvMixer, an efficient deep neural network for seismic inversion:** T. Zhang¹, M. Araya-Polo², A. Shrivastava¹ (1. Rice University; 2. TotalEnergies) (INT. AUD.: 4) Speaker: Tianyi Zhang
- 2:35 PM..... **A method for Q value inversion using source-receiver reciprocity and micro-logging in complex near-surface conditions:** X. Dong, B. Liu, L. Xu, B. Wei (Sinopec Geophysical Corporation R&D Center) (INT. AUD.: 4) Speaker: Xuguang Dong

ACQ 4 Compressive Sensing and Novel Methods

Session Chairs: Zachary Lawrence and Chengbo Li

Location: 360A

Synopsis: This session presents a few field examples on compressive sensing and novel methods to extract more information beyond what conventional methods can achieve.

- 1:20 PM..... **Blended acquisition with independent simultaneous sourcing and dispersed source array: the first 3D pilot program onshore Abu Dhabi:** T. Ishiyama, A. Aljaberi (ADNOC) (INT. AUD.: 3) Speaker: Tomohide Ishiyama
- 1:45 PM..... **Bespoke dynamic application of compressive sensing sampling: An Oman case study:** K. L. Millis, K. Koster, D. Blymyer, V. Durussel (Oxy) (INT. AUD.: 2) Speaker: Keith Millis
- 2:10 PM..... **Non-uniform dispersed source arrays for broadband seismic acquisition:** J. A. Acedo¹, M. D. Sacchi² (1. University of Alberta; 2. University of Alberta) (INT. AUD.: 5) Speaker: Joaquín Acedo
- 2:35 PM..... **Extracting amplitudes lower than the natural receiver sensitivity:** R. L. Abma, S. Fomel (University of Texas at Austin) (INT. AUD.: 3) Speaker: Raymond Abma

CO2 6 Modeling and Simulation: Machine Learning in CCS 1

Session Chairs: Erkan Ay and Shuvajit Bhattacharya

Location: 361B

Synopsis: This session will focus on carbon capture, storage modeling, and simulation and monitoring.

- 1:20 PM..... **A denoising diffusion probabilistic modeling (DDPM) approach for predicting CO₂ plume evolution from seismic shot gathers:** A. Sun², Z. Leong^{*1}, T. Zhu¹ (1. The Pennsylvania State University; 2. The University of Texas at Austin) (INT. AUD.: 5) Speaker: Zi Xian Leong
- 1:45 PM..... **Monitoring subsurface CO₂ plumes with sequential Bayesian inference:** T. Yu¹, R. Orozco², Z. Yin³, M. Louboutin⁴, F. J. Herrmann⁵, A. Gahlot^{*6} (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Georgia Institute of Technology; 4.

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

- Georgia Institute of Technology; 5. Georgia Institute of Technology; 6. Georgia Institute of Technology (Non-Author)) (INT. AUD.: 3) Speaker: Abhinav Prakash Gahlot
- 2:10 PM..... **CO₂-EOR monitoring using time-lapse FWI with walkaway VSP datasets in a carbonate field onshore Abu Dhabi:** Y. Yamada¹, S. Nakayama¹, T. Ishiyama¹, M. Mochizuki¹, T. Mouri², H. Shimizu², A. Aljaberi⁴, A. M. Al Hamed³ (1. INPEX Corporation; 2. JOGMEC; 3. ADNOC Onshore; 4. ADNOC) (INT. AUD.: 4) Speaker: Yuji Yamada
- 2:35 PM..... **On the Nature of CO₂/brine mixing in assessing feasibility of CCS monitoring:** K. Walker¹, H. Malcotti¹, A. Posenato Garcia¹, L. Wei², A. Bolshakov² (1. Chevron; 2. Chevron) (INT. AUD.: 3) Speaker: Kristoffer Walker

DAS 3 Low-frequency DAS and Strain Sensing

Session Chairs: Kan Wu and Zhishuai Zhang

Location: 372C

Synopsis: Advanced hydraulic fracture monitoring with distributed acoustic and strain sensing for geothermal and unconventional reservoirs.

- 1:20 PM..... **Use of low-frequency distributed acoustic sensing (LF-DAS) and distributed strain sensing (DSS) data to optimize well placement in next-generation geothermal projects:** A. Titov, K. Voller, S. Dadi, J. Norbeck (Fervo Energy) (INT. AUD.: 3) Speaker: Aleksei Titov
- 1:45 PM..... **Investigation on the azimuth variation and propagation of hydraulic fractures using low-frequency distributed acoustic sensing (LF-DAS):** Y. Ning, G. Jin (Colorado School of Mines) (INT. AUD.: 3) Speaker: Yanrui Ning
- 2:10 PM..... **A stochastic inversion approach for equivalent hydraulic fracture characterization using low-frequency distributed acoustic sensing data:** Y. Liu, L. Liang, S. Zeroug (Schlumberger-Doll Research) (INT. AUD.: 3) Speaker: Yongzan Liu
- 2:35 PM..... **Hydraulic Fracture Aperture Estimation Using Low-Frequency DAS and DSS in Eagle Ford Shale and the Austin Chalk:** X. Zhu¹, J. Ajo-Franklin², J. Correa³, Y. Ma⁴, J. Saw⁵, L. Luo⁵, K. Soga⁵ (1. Rice University; 2. RICE; 3. Lawrence Berkeley National Laboratory; 4. Rice University; 5. UC Berkeley) (INT. AUD.: 3) Speaker: Xiaoyu Zhu

FWI 9 Machine Learning 2

Session Chairs: Anu Chandran and Zeyu Zhao

Location: 370A

Synopsis: Utilizing and accelerating full waveform inversion solutions via machine learning approaches.

- 1:20 PM..... **Salt-body velocity model building for 3D FWI assisted by deep learning:** C. Bastidas Perez¹, Y. Liu² (1. China University of Petroleum Beijing / BGP; 2. China University of Petroleum - Beijing) (INT. AUD.: 2) Speaker: Carlos Honorio Bastidas Perez
- 1:45 PM..... **A deep learning-based inverse Hessian for full-waveform inversion:** M. Alfarhan¹, M. Ravasi², T. Alkhalifah¹ (1. King Abdullah University of Science and Technology; 2. KAUST) (INT. AUD.: 3) Speaker: Mustafa Alfarhan
- 2:10 PM..... **Joint data- and physics-model-driven full-waveform inversion using CMP gathers and well-logging**

- data:** S. Wu, J. Geng (Tongji University) (INT. AUD.: 3) Speaker: Shuliang Wu
- 2:35 PM..... **JAXcelerate seismic full-waveform inversion: A high-performance approach to PINN-based FWI:** A. Miftakhutdinov¹, U. Waheed², A. Sandhu¹, K. Shukla³, G. Karniadakis³ (1. King Fahd University of Petroleum and Minerals; 2. King Fahd University of Petroleum and Minerals; 3. Brown University) (INT. AUD.: 2) Speaker: Almir Miftakhutdinov

GCHEM 2 Fluid Geochemistry

Session Chairs: Richard Patience and Johannes Wendebourg

Location: 362B

Synopsis: Modeling and real-time analysis of complex reservoir fluids.

- 1:20 PM..... **Simultaneous detection of multiple gas components and real-time chemical analysis by quartz-enhanced photoacoustic spectroscopy:** P. Luo¹, J. Harrist², A. Sampaolo³, M. Gonzalez² (1. Saudi Aramco; 2. Aramco Americas; 3. Physics Department of Polytechnic of Bari) (INT. AUD.: 3) Speaker: Pan Luo
- 1:45 PM..... **A complex bimodal fluid gradient in a simple tilted sheet reservoir is explained and modeled using gas addition to an oil column:** M. Kristensen¹, T. Mohamed², C. Torres-Verdin³, O. Mullins^{*1} (1. SLB; 2. UT Austin; 3. UT Austin) (INT. AUD.: 3) Speaker: Oliver Mullins
- 2:10 PM..... **Nanotechnology and advanced geochemical oil characterization in real-time well drilling operation: A Namibian offshore case history:** M. R. Mello (Brazilpetrostudies) (INT. AUD.: 3) Speaker: Marcio Mello
- 2:35 PM..... **Reservoir simulation of charge history over geologic time matches many measurements of connectivity in stacked turbidite reservoirs:** T. Mohamed¹, M. Kristensen², C. Torres-Verdin⁴, O. Mullins³ (1. The University of Texas at Austin; 2. SLB; 3. SLB; 4. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Tarek S. Mohamed

INT 11 Integrated Interpretation

Session Chairs: Ayodeji Babalola and Sizhuang Deng

Location: 362A

Synopsis: Petroleum system analysis by integrating multiple discipline data.

- 1:20 PM..... **Can magnetotelluric help imaging in the Permian basin? Examples from the Brazilian experience:** P. P. De Lugao, B. F. Kriegshaeuser, E. d. Correa (Stratimage Energy Services) (INT. AUD.: 1) Speaker: Patricia De Lugao
- 1:45 PM..... **The offshore basins of Newfoundland: Are we just getting started?:** R. Etherington², K. Reuber³, M. Cvetkovic¹, S. Whidden² (1. TGS; 2. TGS; 3. TGS) (INT. AUD.: 3) Speaker: Randall Etherington
- 2:10 PM..... **Integrated geologic and geophysical interpretation of the complex Timor orogen: Insights into tectonic and basin evolution:** F. A. Xavier Conceicao¹, J. Eccles², B. Duffy³, L. Strachan² (1. National Petroleum and Mineral Authority - Timor-Leste; 2. University of Auckland; 3. GHG) (INT. AUD.: 4) Speaker: Francelino Xavier Conceicao
- 2:35 PM..... **Adaptive UMAP based multiple-frequency attribute blending and its application on hydrocarbon reservoir**

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

characterization: Z. Zhang¹, N. Liu², Y. Yang¹, Z. Wang³, R. Liu⁴, J. Gao¹ (1. Xi'an Jiaotong University; 2. Xi'an Jiaotong University; 3. Xi'an Jiaotong University; 4. PetroChina Research Institute of Petroleum Exploration and Development (RIPED), CNPC) (INT. AUD.: 3)
Speaker: Zezhou Zhang

MLDA 11 Reservoir Modeling 3

Session Chairs: Anatoly Aseev and Umair bin Waheed

Location: 351B

Synopsis: Enhancing reservoir modeling with machine learning applications.

- 1:20 PM..... **Predicting horizontal permeability in siliciclastic-dominated reservoirs using an automated machine learning approach:** A. A. Shehata¹, M. Ahmed², A. Kassem³ (1. Texas A&M University - Corpus Christi; 2. Texas A&M University - Corpus Christi; 3. Gulf of Suez Petroleum Company (GUPCO)) (INT. AUD.: 3)
Speaker: Amer Shehata
- 1:45 PM..... **Reservoir parameter prediction based on mechanism and data-driven model integration:** M. Kang¹, L. Xiao¹, G. Liao¹, G. Luo¹, R. Shao^{*2} (1. China University of Petroleum; 2. China University of Petroleum (Non-Author)) (INT. AUD.: 3) Speaker: Rongbo Shao
- 2:10 PM..... **Seismic fluid detection based on U-net semantic segmentation:** B. Wang, Y. Chen, J. Ma, m. z. gu (Tianjin Branch of CNOOC (China) Co., Ltd) (INT. AUD.: 3)
Speaker: Bo Wang
- 2:35 PM..... **Efficient subsurface carbon storage modeling with Fourier Neural Operator:** S. Pawar³, P. Devarakota¹, F. O. Alpak³, J. Snippe² (1. Shell Global Solutions US Inc.; 2. Shell Global Solutions International Bv; 3. Shell International Exploration and Production Company) (INT. AUD.: 3) Speaker: Suraj Pawar

RC 4 Methods and Case Studies 3

Session Chairs: Umberto Barbato and Kumar Dhananjay

Location: 372A

Synopsis: Case studies and applications of advanced characterization methods.

- 1:20 PM..... **AVO inversion to characterize various formations for gas production and CO₂ sequestration:** A. Gordon¹, R. Cova², E. Mutual¹, B. Goodway¹, S. Leaney¹, W. Pardasio¹, M. Ng³ (1. Qeye; 2. Qeye; 3. Advantage Energy Ltd.) (INT. AUD.: 3) Speaker: Adriana Gordon
- 1:45 PM..... **Buried-hill multi-scale fracture prediction using wide azimuth OBN seismic data in the South China sea:** X. Liu, L. Xu, Z. Zhang, R. Chen, D. Bian (China National Offshore Oil Corporation) (INT. AUD.: 4) Speaker: Xumin Liu
- 2:10 PM..... **Prestack and poststack seismic amplitude interpretation to support unveiling oil potential of a highly stratigraphic tertiary reservoir:** S. R. Mata García¹, A. Carrillat¹, P. Cisneros¹, V. Lucas¹, P. Bermeo¹, P. González¹, J. Rodas¹, P. Zamora¹, W. Torres², J. Garrido², K. Luzuriaga¹ (1. Shaya Schlumberger; 2. Petroecuador) (INT. AUD.: 3) Speaker: Sergio Mata García
- 2:35 PM..... **Elastic inversion in pre-salt carbonates context: advantages and limitations for porosity and facies**

discrimination: P. Blanvillain, Y. Painchaud, L. Pernia-Soto (TotalEnergies) (INT. AUD.: 3) Speaker: Paul Blanvillain

SILIC 6 Source to Sink: Basin Analysis and Tectono-Stratigraphic Interactions

Session Chairs: David Lewis and Youwei Wang

Location: 361A

Synopsis: Integrated and multidisciplinary source-to-sink, provenance, paleoclimate, and paleoenvironmental research is critical to understand Earth's past and present to plan for future scenarios.

- 1:20 PM..... **Shelf-to-basin sediment transfer mechanisms in contrasted tectonic and climatic settings: Insights from quantitative 3D seismic stratigraphy:** V. Paumard, S. Lang, A. Jian, J. Shepherd, J. Chandra, C. Smith (The University of Western Australia) (INT. AUD.: 3)
Speaker: Victorien Paumard
- 1:45 PM..... **Evolution of Paleogene submarine fans in the Mexican Perdido fold belt:** O. Mata, I. Clark, A. Ozkan, I. Prince, J. VanDerHurst, J. Ostrickoff, J. Urrego, E. McAllister (Shell) (INT. AUD.: 3) Speaker: Orietta Mata
- 2:10 PM..... **Predicting sand composition (QFR) delivered into Miocene GOM basin using basin catchment features and leveraging machine-learning algorithm:** J. Morantes¹, T. Engelder¹, P. Lovely¹, R. Grimm², C. Swenberg², R. Caldwell², E. Reat Wersan¹ (1. Chevron, U.S.A. Inc.; 2. Chevron U.S.A. Inc.) (INT. AUD.: 3)
Speaker: Julymar Morantes
- 2:35 PM..... **Comparison of observed and modeled stratigraphic sequences on an evolving passive margin: Scotia Basin, offshore eastern Canada:** L. I. Vivanco Paolino, N. B. Harris, O. Catuneanu, E. Berberoglu, E. Konstantinovskaya (University of Alberta) (INT. AUD.: 3)
Speaker: Lucia Vivanco Paolino

SP 13 Deblending and Denoise

Session Chairs: Sriram Arasanipalai and Simon Baldock

Location: 371B

Synopsis: New developments on denoise and deblending of seismic data including iterative inversion and deep learning.

- 1:20 PM..... **Deblending seismic data using multi-stage iterative source separation with priors – a case study using streamer 3D data:** W. Ibanez Jacome, J. Hostetler, R. Kumar, W. Brouwer, S. Hydal, Y. Amin (SLB) (INT. AUD.: 4)
Speaker: Wilson Ibanez Jacome
- 1:45 PM..... **Iterative deblending of multi-frequency simultaneously acquired seismic data:** C. Tsingas¹, W. Jeong³, M. Almubarak² (1. Saudi Aramco; 2. Saudi Aramco; 3. 2. Department of Geophysics, Kangwon National University, Chuncheon) (INT. AUD.: 4)
Speaker: Constantinos Tsingas
- 2:10 PM..... **Two-stage hybrid deep learning for time-lapse seismic data deblending:** W. Hu¹, T. Shao², S. Phan³, H. Di⁴, A. Abubakar⁵ (1. Schlumberger; 2. Tsinghua University; 3. Schlumberger Ltd; 4. Schlumberger; 5. Schlumberger) (INT. AUD.: 3) Speaker: Wenyi Hu
- 2:35 PM..... **Simple compensation for frequency-dependent attenuation caused by local stacking in the presence of multiplicative noise:** A. Bakulin¹, D.



Thursday, 31 August

Neklyudov², I. Silvestrov¹ (1. Saudi Aramco; 2. IPGG SB RAS) (INT. AUD.: 1) Speaker: Andrey Bakulin

SS 19 Cryogeophysics: Near-surface Geophysics in the Cryosphere

Session Chairs: To Be Determined and Dan Glaser

Location: 351A

Synopsis: Novel near-surface geophysical investigations of cold regions conditions and processes.

1:20 PM..... **Investigating the coupling between above and below-ground dynamics using distributed temperature sensing and electrical resistivity tomography:** S. Uhlemann¹, C. Wang¹, I. Shirley¹, S. Wielandt¹, C. Ulrich¹, S. FIOLEAU², B. Dafflon¹ (1. Lawrence Berkeley National Laboratory; 2. LBNL) (INT. AUD.: 3) Speaker: Sebastian Uhlemann

1:45 PM..... **Permafrost and groundwater characterization and detection of long-term changes using geophysical methods:** A. M. Wagner¹, T. D. Sullivan², D. R. Glaser³ (1. Cold Regions Research and Engineering Laboratory; 2. CRREL; 3. ERDC) (INT. AUD.: 3) Speaker: Anna Wagner

2:10 PM..... **Mapping englacial attenuation rate distributions using off-nadir airborne radio-echo sounding:** D. May¹, D. Schroeder¹, T. Young² (1. Stanford University; 2. Scott Polar Research Institute, University of Cambridge) (INT. AUD.: 3) Speaker: Daniel May

2:35 PM..... **Imaging ice content in alpine permafrost with complex conductivity using electrical and electromagnetic methods:** A. Flores Orozco¹, C. Moser¹, L. Aigner¹, U. Morra di Cella² (1. TU Wien; 2. Regional Agency for Environmental Protection) (INT. AUD.: 2) Speaker: Adrian Flores Orozco

SS 20 Open-source Geospatial and Geophysical Software

Session Chairs: Noah Dewar and Sina Saneiyar

Location: 372B

Synopsis: Open-source software is an indispensable tool for the modern geophysicist. Here, we cover exciting developments in open-source geospatial and geophysical data processing and inversion packages.

1:20 PM..... **Ground penetrating radar data processing and visualization using the open source software GPRPy:** A. M. Plattner (University of Alabama) (INT. AUD.: 1) Speaker: Alain Plattner

1:45 PM..... **fastpath: A web-based application to guide groundwater recharge site location in California using open geophysical data:** S. Kang¹, R. Knight¹, M. Goebel¹, S. Purves², R. Cockett² (1. Stanford University; 2. Curvenote) (INT. AUD.: 1) Speaker: Seogi Kang

2:10 PM..... **Joint inversions with the SimPEG framework:** J. Capriotti¹, L. Heagy², S. Soler³, T. Astic⁴ (1. Geophysical Inversion Facility; 2. University of British Columbia; 3. University of British Columbia; 4. Kobold Metals) (INT. AUD.: 3) Speaker: Joseph Capriotti

2:35 PM..... **Pyseis: a high-performance, user-friendly Python package for GPU-accelerated seismic modeling and subsurface imaging:** S. T. Farris¹, G. Barnier³, E. Biondi² (1. Stanford University; 2. CALTech; 3. Nvidia) (INT. AUD.: 3) Speaker: Stuart Farris

STGM 3 Fault and Natural Fracture Characterization

Session Chairs: Emilie Gentry and Qiqi Wang

Location: 362C

Synopsis: Field-based studies focused on faults, natural fractures, and stress conditions.

1:20 PM..... **Comparison of observed and modeled fractures under variable paleostress conditions, Lisbon Valley, Paradox Basin, Utah:** O. Iqbal², A. Hughes², S. Busetti¹ (1. Aramco Americas; 2. University of Arizona) (INT. AUD.: 3) Speaker: Omer Iqbal

1:45 PM..... **Digital photogrammetry, field analysis, and stress inversion to characterize fault morphology, failure modes, and slip tendency vs. dilation tendency:** A. J. Cawood¹, D. Ferrill¹, K. Smart² (1. Southwest Research Institute; 2. Southwest Research Institute) (INT. AUD.: 3) Speaker: Adam Cawood

2:10 PM..... **Fracture network characterization of the Upper Cretaceous outcrops in central Oman:** R. Iakusheva, Y. Panara, V. Vahrenkamp (KAUST) (INT. AUD.: 4) Speaker: Regina Iakusheva

2:35 PM..... **Impact of lithological variation and topology on the connectivity and intensity of fracture networks in fractured carbonates:** F. Qassim¹, C. M. Burberry¹, T. D. Frank², M. L. Searls¹ (1. University of Nebraska-Lincoln; 2. University of Connecticut) (INT. AUD.: 3) Speaker: Fahad Qassim

AAS 6 Case Studies

Session Chairs: Dwaipayan Chakraborty and Kyle Spikes

Location: 371A

Synopsis: This session introduces several case examples on the AVO and seismic inversion.

3:10 PM..... **AVAZ inversion for brittleness indicator and fracture parameters of gas-bearing reservoirs with tilted transverse isotropy:** Y. Tan, G. Zhang, Z. Ma (China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Yuanyuan Tan

3:35 PM..... **Application of configuration inversion technology in precise reservoir description and heavy oil thermal recovery in L Oilfield of the Bohai Sea:** Y. Chen, I. liu, T. Tian, h. yan (Tianjin Branch of CNOOC (China) Co., Ltd) (INT. AUD.: 3) Speaker: Yong Chen

4:00 PM..... **Uncertainty estimation in 3D and 4D wave-equation-based AVO inversion:** D. Gisolf¹, P. R. Haffinger^{*2} (1. Delft Inversion; 2. Delft Inversion) (INT. AUD.: 3) Speaker: Peter Haffinger

4:25 PM..... **Comprehensive prediction technology of covered buried-hill reservoir: A case study of western Bohai Sea:** L. Deyu¹, C. Li¹, y. j. cai², J. Diao³ (1. CNOOC(China National Offshore Oil Corporation) Ltd Tianjin Branch; 2. CNOOC Tianjin Branch; 3. CNOOC(China National Offshore Oil Corporation) Ltd Tianjin Branch) (INT. AUD.: 5) Speaker: Li Deyu

ACQ 5 Ocean Bottom Nodes

Session Chairs: Scott Baker and Shangli Ou

Location: 360A

Synopsis: This session focuses on how to improve OBN operation efficiency using new technologies including autonomous

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

nodes, HAUVs, etc.

- 3:10 PM..... **Development of a novel seismic acquisition system based on fully autonomous gliding ocean bottom nodes:** F. Mancini¹, B. Hollings¹, D. Dieulangard¹, G. Mangano¹, D. Gjini¹, T. Manning², H. Debens³ (1. Blue Ocean Seismic Services; 2. bp; 3. Woodside Energy) (INT. AUD.: 3) Speaker: Fabio Mancini
- 3:35 PM..... **HAUVs - The next evolution in ocean bottom node deployment and recovery:** N. Ragoonanan, M. J. Hartland, T. J. Bunting (PXGEO) (INT. AUD.: 3) Speaker: Nishan Ragoonanan
- 4:00 PM..... **OBN timing and positioning:** J. Hoogeveen, W. Eckhardt (Seisnode BV) (INT. AUD.: 3) Speaker: Jeroen Hoogeveen
- 4:25 PM..... **On-demand ocean bottom nodes (OD OBN) for low-cost reservoir monitoring:** J. L. Lopez¹, S. Grandi², D. R. Juliano¹, A. A. da Silva³, V. E. Beal⁴, T. Miranda⁴, R. Carvalho³, S. Dunn⁵, N. Street⁵, C. Kennard⁵, J. Rietjens⁶, F. Lima Santos⁶, E. Alexandre⁶, C. Nevo⁷ (1. Shell Brasil Petroleo Ltda; 2. Shell International Exploration & Production, Inc.; 3. Petrobras; 4. SENAI CIMATEC; 5. Sonardyne International; 6. Sonardyne Brasil; 7. Saipem do Brasil) (INT. AUD.: 3) Speaker: Jorge Lopez

CO2 7 Modeling and Simulation: Machine Learning in CCS 2

Session Chairs: Didier Lecerf and Yanrui Ning

Location: 361B

Synopsis: This session will focus on carbon capture, storage modeling, and simulation.

- 3:10 PM..... **Time-lapse seismic monitoring of geological carbon storage with the nonlinear joint recovery model:** A. Gahlot¹, M. Louboutin², F. J. Herrmann³ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Abhinav Prakash Gahlot
- 3:35 PM..... **Fault MLReal: A fault delineation study for the Decatur CO₂ field data using neural network predicted passive seismic locations:** H. Wang¹, Y. Chen², T. Alkhalifah⁴, Y. Lin³ (1. Los Alamos National Laboratory; 2. Microsoft; 3. Los Alamos National Laboratory; 4. King Abdullah University of Science and Technology) (INT. AUD.: 3) Speaker: Hanchen Wang
- 4:00 PM..... **Rapid forecast of geological carbon storage under uncertain geological and operational conditions:** S. Misra, Y. Falola, A. Nunez Calvo (Texas A&M University) (INT. AUD.: 3) Speaker: Siddharth Misra
- 4:25 PM..... **Surrogate-based optimization under geological uncertainty for carbon capture and sequestration:** J. L. Hernandez Mejia¹, Y. Yuan², K. Dugan², Q. Li³ (1. The University of Texas at Austin; 2. ExxonMobil; 3. ExxonMobil) (INT. AUD.: 3) Speaker: Jose Hernandez Mejia

DAS 4 New Methods and Applications

Session Chairs: Ge Jin and Vladimir Kazei

Location: 372C

Synopsis: Innovative approaches and practical applications of distributed acoustic sensing in geophysics.

- 3:10 PM..... **Moment magnitude inversion using single-well DAS:** T. Mizuno¹, J. Le Calvez² (1. SLB; 2. SLB) (INT. AUD.: 3) Speaker: Takashi Mizuno
- 3:35 PM..... **Developing a distributed acoustic sensing (DAS) seismic land streamer: Concept and validation:** A. Pandey, J. C. Shragge, D. Chambers, A. J. Girard (Colorado School of Mines) (INT. AUD.: 3) Speaker: Adesh Pandey
- 4:00 PM..... **Nondestructive testing for wellbore integrity with distributed acoustic sensing:** I. Lim Chen Ning¹, M. Craven¹, T. Tokar¹, P. Benet², M. Merlino², S. Dasgupta¹ (1. Chevron U.S.A. Inc.; 2. Chevron Australia Pty Ltd.) (INT. AUD.: 2) Speaker: Ivan Lim Chen Ning
- 4:25 PM..... **Building health monitoring and indoor surveillance using multistory distributed acoustic sensing:** C. Gu¹, Y. Zhong¹, P. Wu², B. Kang³, G. Prieto⁵, M. Fehler⁴, X. Lu¹ (1. Tsinghua University; 2. Tsinghua University; 3. Tsinghua University; 4. Massachusetts Institute of Technology; 5. Universidad Nacional de Colombia) (INT. AUD.: 3) Speaker: Chen Gu

FWI 10 Theory and Methods 2

Session Chairs: Xuejian Liu and Jian Mao

Location: 370A

Synopsis: Innovations and efficiencies in compute to solve full waveform inversion including algorithm improvements and uncertainty estimation.

- 3:10 PM..... **Accelerated augmented Lagrangian full-waveform inversion based on truncated randomized singular value decomposition:** J. Li¹, H. Mikada², J. Takekawa² (1. Kyoto University; 2. Kyoto University) (INT. AUD.: 3) Speaker: Jiahang Li
- 3:35 PM..... **Frugal physics reliable uncertainty estimation for full-waveform inversion:** M. Izzatullah, M. Ravasi, T. Alkhalifah (KAUST) (INT. AUD.: 2) Speaker: Muhammad Izzatullah
- 4:00 PM..... **Enabling technologies for economical and efficient cloud-based FWI:** H. A. Debens¹, D. Knodel¹, A. Umpleby², C. Mavropoulos³ (1. Woodside Energy Group Ltd; 2. S-Cube; 3. S-Cube) (INT. AUD.: 4) Speaker: Henry Debens
- 4:25 PM..... **Extended full-waveform inversion by relative matching:** G. Shan², J. Chen¹ (1. Chevron; 2. Chevron) (INT. AUD.: 2) Speaker: Guojian Shan

GCHEM 3 Geochemistry of Unconventionals

Session Chairs: Rob Forkner and Mei Mei

Location: 362B

Synopsis: Geochemical tools and technologies for shales.

- 3:10 PM..... **Understanding the effect that depositional environment has on oil migration rate in shales: New application for NAP-XPS:** J. M. Sevy¹, S. M. Hudson², P. M. Dietrich⁴, M. Linford³ (1. Brigham Young University; 2. Brigham Young University; 3. Brigham Young University; 4. SPECS Surface Nano Analysis GmbH) (INT. AUD.: 3) Speaker: Jonathon Sevy
- 3:35 PM..... **A case study from South Texas of the utility of chemical elemental compositions from drill cuttings to improve well site decision making processes:** C. Symcox,

Oral Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

- 4:00 PM..... **D. J. Tonner, C. MAYORGA, A. Liborius, S. Hughes (Diversified) (INT. AUD.: 2) Speaker: Carl Symcox**
Advanced geochemical technologies oil and source rock delineations within the Bakken Petroleum System at Kevin Dome, NW Montana and Ferguson Gas Field, S Alberta Canada: E. O. Adeniyi¹, J. M. Moldowan², J. Dahl³, M. S. Hubbard¹ (1. Montana State University; 2. Biomarker Technologies, Inc.; 3. Stanford University) (INT. AUD.: 3) Speaker: Elijah Adeniyi
- 4:25 PM..... **Subsurface geochemical rock-fluid interactions in Caney Shale, South-Central Oklahoma Oil Province (SCOOP):** G. A. Awejori¹, W. Dong², C. Doughty³, N. Spycher³, M. Radonjic¹ (1. Oklahoma State University; 2. Lawrence Berkeley National Lab; 3. Lawrence Berkeley National Lab) (INT. AUD.: 4) Speaker: Gabriel Awejori

INT 12 Stratigraphic Mapping

Session Chairs: Alfredo Fernandez and Carlos Uroza

Location: 362A

Synopsis: New methods of seismic stratigraphic mapping.

- 3:10 PM..... **Structurally consistent sequence stratigraphic framework enabled by the RGT modelling method: application to fractured thin reservoirs in a pre-salt gas field, offshore Netherlands:** N. Daynac (Eliis) (INT. AUD.: 4) Speaker: Nicolas Daynac
- 3:35 PM..... **Analysis of sedimentary patterns based on steerable pyramid filtering:** Y. Dai¹, X. Huang¹, W. Cui², K. Li², D. Zhang¹, J. Tang¹ (1. Southwest Petroleum University; 2. Shengli Oil Production Plant, Sinopec Shengli Oilfield Company) (INT. AUD.: 4) Speaker: Yue Dai
- 4:00 PM..... **The diligent search for subtle traps within Lower Goru sands in structural lows using seismic sequence stratigraphy: A case study from Lower Indus Trough, Pakistan:** R. Shahzad¹, M. I. Hajana², S. Ahmad¹, U. H. Awan¹, S. Mustafa¹, S. Akhtar³ (1. Oil and Gas Development Company Limited; 2. Bahria University; 3. Geotechnical Information Solutions (GTIS)) (INT. AUD.: 4) Speaker: Rana Faisal Shahzad
- 4:25 PM..... **Application of genetic inversion constrained by numerical model of sedimentary evolution in reservoir prediction of Paleogene fan delta in Bohai Bay basin:** W. Wang, Z. Zhang, L. Chen, C. Yang (CNOOC) (INT. AUD.: 4) Speaker: Wei Wang

MLDA 12 Generative Models

Session Chairs: Sergey Fomel and Tao Zhao

Location: 351B

Synopsis: Generative model applications for LiDAR and geophysical modeling and inversion.

- 3:10 PM..... **Generating subsurface models with a text prompt:** A. Aseev (SLB) (INT. AUD.: 3) Speaker: Anatoly Aseev
- 3:35 PM..... **Generating geophysical models from text for constructing the dataset of learning-based MT inversion:** Y. Li¹, H. Zhou¹, R. Guo¹, M. Li¹, A. Abubakar² (1. Tsinghua University; 2. Schlumberger) (INT. AUD.: 3) Speaker: Yutong Li
- 4:00 PM..... **Spatial statistical analysis and geomodelling of banana holes using point patterns and generative adversarial**

- 4:25 PM..... **networks:** R. Kanfar¹, T. Mukerji² (1. Stanford University; 2. Stanford University) (INT. AUD.: 1) Speaker: Rayan Kanfar
Physics-guided W-Net Generative Adversarial Network for direct stochastic inversion of seismic data to facies models: R. Miele, L. Azevedo (Instituto Superior Técnico) (INT. AUD.: 3) Speaker: Roberto Miele

PBAA 1 Microfossils in Hydrocarbon Exploration: Case Studies

Session Chairs: Jose Dugarte Newman and Marco Vecoli

Location: 372B

Synopsis: Integrated micropaleontological and palynological analyses demonstrate their potential for characterization of petroleum systems and their effective application in hydrocarbon exploration.

- 3:10 PM..... **Integrated paleoenvironmental reconstruction of the Cretaceous basins on the Central and North Atlantic margins:** E. Setoyama¹, S. Garel², D. Beti¹, S. Kanungo¹, C. Kesler¹ (1. Energy & Geoscience Institute, University of Utah; 2. Jeunes Chercheurs Associés) (INT. AUD.: 1) Speaker: Eiichi Setoyama
- 3:35 PM..... **Palynostratigraphy of the Lower Wilcox Group, onshore Texas:** V. Smith¹, I. Olariu², D. Bord¹, L. G. Moscardelli², E. Sivil², A. Hessler³, X. Liu¹, R. Howe¹, M. A. Lorente¹ (1. Ellington Geological Services; 2. Texas Bureau of Economic Geology; 3. Deep Time Institute) (INT. AUD.: 3) Speaker: Vann Smith
- 4:00 PM..... **Geology and paleo-depositional environment of Leru and its Environs, Southern – Eastern, Nigeria:** F. M. Kelechi, K. K. Okeke, N. Ulasi (University of Nigeria Nsukka) (INT. AUD.: 1) Speaker: Faith Kelechi
- 4:25 PM..... **Palynofacies characterization and palaeoenvironmental significance of the middle Eocene source rock in the Zhuyi sag, the Pearl River Mouth Basin, South China Sea:** C. Shi (Shenzhen Branch, CNOOC China Limited) (INT. AUD.: 5) Speaker: Cui Shi

RC 5 Case Studies

Session Chairs: Gokay Bozkurt and Jorge Fernandez-Concheso

Location: 372A

Synopsis: Case studies on integrated reservoir characterization.

- 3:10 PM..... **Integrating geology and geophysics through forward seismic modeling to reduce geologic modeling cycle time and improve results in Stabroek Block, Guyana:** J. Daves¹, M. A. McGlashan², J. Simo³ (1. ExxonMobil; 2. ExxonMobil Technology and Engineering; 3. ExxonMobil Technology and Engineering) (INT. AUD.: 3) Speaker: Jacquelyn Daves
- 3:35 PM..... **Stochastic inversion for seismic reservoir characterization – Trinidad and Tobago deepwater case study:** H. Liu¹, B. Chen¹, S. Chakraborty¹, H. Pham Huu², N. Islam¹, J. Van Gestel¹ (1. BP; 2. BP) (INT. AUD.: 3) Speaker: Han Liu
- 4:00 PM..... **Integrated carbonate reservoir types modeling based on the PRT deep learning and multi-parameters seismic inversion and its application:** C. Xin¹, S. Jiawen¹, L. Qing³, S. Qian¹, Z. Min¹, Q. Qunli¹, W. Zhong¹, D. Xiao², T. Zichang¹, F. An¹, W. bo¹, F. Hanzhou¹, L. Qiang¹, H. Kongzhi¹ (1. BGP, CNPC; 2. BGP.CNPC; 3. Dagang oilfield) (INT. AUD.: 4) Speaker: Chen Xin

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

4:25 PM..... **Mapping the subsurface with the help of machine learning:** H. Moubarak, M. A. Jaseem, B. F. Bahrouh (Kuwait Oil Company) (INT. AUD.: 3)
Speaker: Hesham Moubarak

SILIC 7 Shallow Marine Sedimentary Systems 3

Session Chairs: Patricia Ascanio-Pellon and Ahmed Radwan

Location: 361A

Synopsis: Shallow marine sedimentary processes and their deposits from conventional and unconventional standpoints. Advances in knowledge, facies models and forward stratigraphic modelling.

3:10 PM..... **Three major diagenetic styles that controls reservoir quality in the Triassic Mungaroo Formation, northern Carnarvon Basin, Western Australia:** S. Menacherry (Independent Consultant) (INT. AUD.: 4) Speaker: Saju Menacherry

3:35 PM..... **WITHDRAWN**

4:00 PM..... **The Tale of four sand bodies: Depositional environment and reservoir characteristics of different and separate shallow marine sand bodies in the Upper Woodbine at Lake Grapevine, Texas:** B. Henk, R. A. Denne, R. Pastor, H. Henk (TCU) (INT. AUD.: 3) Speaker: Bo Henk

4:25 PM..... **Subaqueous tidal deltas and shelf tidal ridges of the Cook Formation (Lower Jurassic) in the Early Jurassic Seaway, off Norway:** A. Folkestad¹, R. J. Steel² (1. Equinor ASA; 2. Professor Emeritus) (INT. AUD.: 2)
Speaker: Atle Folkestad

SP 14 Novel Solutions and Applications

Session Chairs: Xiang Li and Mostafa Naghizadeh

Location: 371B

Synopsis: Advanced solutions and considerations in designing seismic surveys, imaging, and analyzing data to improve accuracy and quality in a variety of contexts.

3:10 PM..... **Designing surveys in an updated regulatory environment – with consideration of processing:** C. Udengaard, D. Bookes, S. Dean, S. Yong, H. Roende, D. Bate, E. Marc (TGS) (INT. AUD.: 3)
Speaker: Carsten Udengaard

3:35 PM..... **Maximizing imaging resolution and amplitude fidelity of low-dip stratigraphic traps through continued optimization of seismic acquisition and processing: A case study from the Guyana South-East Stabroek Block:** Y. Tang¹, F. Song¹, L. Bear¹, M. Widmer¹, L. Wilson¹, V. Gudipati¹, R. Bansal¹, S. Knapp², C. Xia³, W. Zhao⁴, Y. Huang⁴ (1. ExxonMobil; 2. HESS; 3. CNOOC International; 4. CGG) (INT. AUD.: 2) Speaker: Yaxun Tang

4:00 PM..... **Multicomponent seismic data vector reconstruction via quaternionic matrix factorization algorithm:** Y. Fu¹, J. Gao¹, W. Sun², Y. Wang², F. Li³ (1. China University of Geosciences, Beijing; 2. Haiyou mansion, No.6 Courtyard, Taiyanggong street south, Chaoyang district; 3. China University of Geosciences, Beijing) (INT. AUD.: 2) Speaker: Yonghai Fu

4:25 PM..... **The impact of estimated temporal and spatial variability of water layer velocity on the correction of OBS data:** P. Scholtz, T. Nguyen, A. Jafargandomi (Shearwater GeoServices) (INT. AUD.: 3) Speaker: Peter Scholtz

SS 21 Dams and Levees

Session Chairs: Nadia Fantello and Daniel Locci-Lopez

Location: 351A

Synopsis: This session will focus on methods developed in academia and industry to characterize the near surface integrity of geological formations beneath dams and levees.

3:10 PM..... **Utilizing multi-channel analysis of surface waves (MASW) as a tool to address uncertainty of foundation erodibility:** J. E. Shinpaugh, M. Huebner (TVA) (INT. AUD.: 4) Speaker: Joshua Shinpaugh

3:35 PM..... **Using MASW and resistivity surveys to detect river bar locations under levees: A case study of the Melvin Price Reach of the Wood River Levee:** C. M. Wood¹, M. Rahimi¹, S. Rahimi² (1. University of Arkansas; 2. ARUP) (INT. AUD.: 3) Speaker: Clinton Wood

4:00 PM..... **Characterization and geohazard assessment of earthen dams using various geophysical methods:** N. Pendrigh, R. Bowling (Collier Geophysics, LLC) (INT. AUD.: 3)
Speaker: Nicole Pendrigh

4:25 PM..... **Heave susceptibility in floodplain sediments using electrical resistivity tomography and s-wave seismic reflection methods:** D. Locci-Lopez¹, J. M. Lorenzo¹, F. T. Tsai² (1. LSU; 2. LSU) (INT. AUD.: 6)
Speaker: Daniel Locci-Lopez

STGM 4 Salt Deposition, Diapirism, and Deformation

Session Chairs: Elizabeth Horne and Craig Schneider

Location: 362C

Synopsis: Studies focused on evaporite systems, including salt-related deposition, diapirism and deformation, as well as development challenges associated with halokinesis.

3:10 PM..... **Multi-2D halokinetic sequential restorations in the Sureste Basin, Mexico: Insights, lessons learned and implications for hydrocarbon prospectivity:** C. Reilly¹, L. V. Swan¹, M. Durcanin², R. Ianev² (1. Petroleum Experts Ltd; 2. Murphy Exploration and Production Co.) (INT. AUD.: 3) Speaker: Cathal Reilly

3:35 PM..... **Interaction between salt and mobile shale in the East Breaks foldbelt, northwest Gulf of Mexico:** M. Hudec¹, F. Peel¹, J. I. Soto², G. Apps¹ (1. The University of Texas at Austin; 2. University of Texas at Austin) (INT. AUD.: 1)
Speaker: Michael Hudec

4:00 PM..... **Geological evolution of the post-rift section in the Red Sea Basin:** T. Pensa¹, A. Delgado Huertas², M. Aljahdali³, A. Afifi¹ (1. King Abdullah University of Science and Technology; 2. Andalusian Earth Sciences Institute; 3. King Abdulaziz University) (INT. AUD.: 3)
Speaker: Tihana Pensa

4:25 PM..... **Challenges turned to opportunities during well placement through challenging deep Kimmeridgian - Tithonian age evaporates of North Kuwait:** C. Pattnaik¹, N. rao¹, A. Al-Mutairi¹, R. Dolbier², S. Al-Ajmi¹, A. Albloushi¹, T. Bloushi¹, M. Al-Mutawa¹, M. Al-Ajmi¹ (1. Kuwait Oil Company; 2. Shell) (INT. AUD.: 3)
Speaker: Chinmaya Pattnaik

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

AAS P1 Prestack and Azimuthal Inversion

Session Chairs: Venkatesh Anantharamu and Ilya Tsvankin

Location: Poster Station 1

Synopsis: *This session is focusing on the technology and application of pre-stack AVO and AVAZ inversion.*

10:20 AM.... **Robust multi-channel pre-stack AVA inversion based on elastic L1/2 norm:** N. Lan (China University of Petroleum-Huadong) (INT. AUD.: 3) Speaker: Nanying Lan
▶ Poster Station: E

10:45 AM.... **Prestack inversion technology of sensitive factors of deep buried marine carbonate buried hill reservoir in Bozhong depression: Taking B structure in Bozhong depression as an example:** S. Wang¹, J. Ming¹, Q. Liu¹, J. Diao² (1. CNOOC(China National Offshore Oil Corporation) Ltd Tianjin Branch; 2. CNOOC(China National Offshore Oil Corporation) Ltd Tianjin Branch) (INT. AUD.: 5) Speaker: Siquan Wang
▶ Poster Station: F

11:10 AM **WITHDRAWN**

11:35 AM **Prestack inversion based on Bayesian theory in ray parameter domain and its application in hydrocarbon detection:** J. Ming, J. Huang, D. Hou (China National Offshore Oil Corporation(CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 4) Speaker: Jun Ming
▶ Poster Station: H

C02 P1 Site Characterizations and Case Studies 1

Session Chairs: Ron Mart and Martin Neumaier

Location: Poster Station 3

Synopsis: *Resource and site characterizations including reservoir evaluations, modeling, and simulations.*

10:20 AM.... **Integrated subsurface characterization and evaluation of CO₂ storage potential of the Illinois Basin Decatur Project (IBDP):** G. Shodunke³, C. Henriques², Q. Al Maqbal¹, M. P. Madariaga⁴, O. Alo³, K. Buckmire², I. Ferreira² (1. University of Oklahoma; 2. Pennsylvania State University; 3. University of Oklahoma; 4. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Ganiyat Shodunke
▶ Poster Station: E

10:45 AM.... **Seismicity characterization of the San Juan Basin CarbonSAFE site:** Y. Park³, T. Chen², R. Alfaro-Diaz¹, B. Delbridge¹, J. Webster¹ (1. Los Alamos National Laboratory; 2. Los Alamos National Laboratory; 3. Los Alamos National Laboratory) (INT. AUD.: 3) Speaker: Yongsoo Park
▶ Poster Station: F

11:10 AM **Statewide assessment of CO₂ storage capacity for the Cambrian-Ordovician Arbuckle Group and selected Ordovician formations, Oklahoma:** A. Turnini¹, M. J. Pranter² (1. University of Oklahoma; 2. University of Oklahoma) (INT. AUD.: 3) Speaker: Anna Turnini
▶ Poster Station: G

11:35 AM **Permeability estimation for geological CO₂ storage site characterization: Michigan Basin:** C. Buchwalter, Y. Sun (Texas A&M University) (INT. AUD.: 3) Speaker: Christine

Buchwalter

▶ Poster Station: H

FWI P1 Machine Learning 1

Session Chairs: Debanjan Datta and Zedong Wu

Location: Poster Station 5

Synopsis: *Utilizing machine learning approaches to estimate uncertainty, regularize inverse problem and algorithm improvements for multi-component data applications.*

10:20 AM.... **Making uncertainty quantification in full-waveform inversion practical using normalizing flows:** C. Sun¹, A. Malcolm*², R. Kumar³ (1. Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences; 2. Memorial University of Newfoundland; 3. SLB) (INT. AUD.: 3) Speaker: Alison Malcolm
▶ Poster Station: E

10:45 AM.... **Prior velocity distribution regularized FWI using diffusion models: A field application:** F. Wang, X. Huang, T. Alkhalifah (King Abdullah University of Science and Technology) (INT. AUD.: 3) Speaker: Fu Wang
▶ Poster Station: F

11:10 AM **Full-waveform inversion of multi-component data: From conventional to polarization-based approaches:** S. Sambolian¹, R. Brossier¹, L. Métivier² (1. Université Grenoble Alpes, ISTerre; 2. Université Grenoble Alpes, ISTerre, LJK) (INT. AUD.: 4) Speaker: Serge Sambolian
▶ Poster Station: G

11:35 AM.... **Overcoming the challenges of the nonlinearity of full-waveform inversion with a pretrained transformer network to predict low frequencies and an initial velocity:** R. Harsuko, T. Alkhalifah (King Abdullah University of Science and Technology) (INT. AUD.: 3) Speaker: Randy Harsuko
▶ Poster Station: H

GCHEM P1 Geochemical Methods and Tools 1

Session Chairs: Irene Arango and Johannes Wendebourg

Location: Poster Station 7

Synopsis: *Geochemical methods and tools for rocks and fluids.*

10:20 AM.... **Geochemical characterization of oils generated from a Type II-S source rock:** P. Srinivasan¹, E. M. Endara Arguello¹, D. Jacobi², C. Sandu³ (1. Aramco Americas; 2. Aramco Americas; 3. Aramco Americas) (INT. AUD.: 3) Speaker: Poorna Srinivasan
▶ Poster Station: E

10:45 AM.... **Charging of J-A oil field in Archean buried hill surrounding the Liaoxi uplift from multiple lacustrine source rock intervals and generative kitchens, Bohai Bay Basin, China:** D. Tian, H. Yang, B. Wang, Y. Li, X. Lu (CNOOC Ltd. _Tianjin) (INT. AUD.: 3) Speaker: Derui Tian
▶ Poster Station: F

11:10 AM **U.S. Geological Survey Energy and Minerals Resources Program Geochemical Reference Materials:** J. Wycech¹, J. Birdwell¹, G. Ellis², A. Warden¹ (1. U.S. Geological Survey; 2. U.S. Geological Survey) (INT. AUD.: 3) Speaker: Jody Wycech
▶ Poster Station: G

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

11:35 AM **Carbon and oxygen isotopic excursions in marine carbonates: A reliable proxy to biostratigraphy and a peer tool to estimate paleoclimatic variations, extent of diagenesis and palaeotemperature:** U. P. Singh, H. C. Pande, R. Singh, I. Singh (Oil and Natural Gas Corporation Limited) (INT. AUD.: 3) Speaker: Upendra Singh
▶ Poster Station: H

INT P1 Case Study: Seismic Sequence and Facies Analysis

Session Chairs: Ray Farrell and Niven Shumaker

Location: Poster Station 8

Synopsis: Case study about seismic sequence and facies analysis of different basins.

10:20 AM.... **Control effect of karst paleogeomorphology on the sedimentation of marine-continental transitional shale strata and its geological significance –Using the Lower Permian Shanxi Formation in the eastern Ordos Basin as an example:** X. Wang, L. Zhou, Y. Wu (Southwest Petroleum University) (INT. AUD.: 4) Speaker: Xuxu Wang
▶ Poster Station: A

10:45 AM.... **Seismic-based characterization of multi-scale fractures and faults at different stages of tectonic movements in the shale gas reservoir of the Longmaxi Formation in the Sichuan Basin:** L. Wu², X. Huang², G. Zhang^{*1}, x. Ren², Y. Jiang², J. Li², Y. Xu¹, X. Huang¹ (1. Southwest Petroleum University; 2. CNPC Chuanqing Drilling) (INT. AUD.: 3) Speaker: Guanyu Zhang
▶ Poster Station: B

11:10 AM **Interpretation method of granite buried hill reservoir based on geological genesis analysis-A case study of PL granite buried hill reservoir in Bohai Sea, China:** D. Guan, C. Li, P. Liu, J. Yue, X. Ma (Tianjin Branch of China National Offshore Oil Company Ltd.) (INT. AUD.: 4) Speaker: Dayong Guan
▶ Poster Station: C

11:35 AM **Mesozoic deepwater depositional systems of Uruguay:** K. Reuber¹, R. Etherington¹, M. Cvetkovic² (1. TGS; 2. TGS) (INT. AUD.: 3) Speaker: Kyle Reuber
▶ Poster Station: D

INT P2 Case Study: Igneous Intrusion

Session Chairs: Mohammed Aldakheel and Umberto Barbato

Location: Poster Station 8

Synopsis: Case studies about igneous intrusion detection.

10:20 AM.... **Characterization of volcanic conduits beneath hydrothermal fluid altered carbonate reservoirs using 3-D seismic data in the Tahe area, Tarim basin:** M. Gong¹, W. Tian² (1. Sinopec Petroleum Exploration and Production Research Institute; 2. School of Earth and Space Sciences, Peking University) (INT. AUD.: 5) Speaker: Mingyue Gong
▶ Poster Station: E

10:45 AM.... **Estimating remanent magnetization direction from aeromagnetic data: A case study from a Matachewan dike in the Abitibi:** S. Hart¹, Y. Li² (1. CSM; 2. Colorado

School of Mines) (INT. AUD.: 2) Speaker: Skye Hart
▶ Poster Station: F

11:10 AM **Architecture of an upper cretaceous volcanic mound and associated carbonate systems: Elaine Field, South Texas:** H. Zeng, R. Loucks, R. Reed (The University of Texas at Austin) (INT. AUD.: 2) Speaker: Hongliu Zeng
▶ Poster Station: G

11:35 AM **An integrated seismic and magnetic approach for investigating igneous intrusions evolution: Implications for basin evolution and petroleum systems:** S. A. Alqahtani¹, A. Salem², H. Janobi², J. Luo², Y. Alqahtani² (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 3) Speaker: Saleh Alqahtani
▶ Poster Station: H

MLDA P1 Inversion and Property Estimation 1

Session Chairs: Shihang Feng and Nam Pham

Location: Poster Station 9

Synopsis: Applied machine learning for subsurface property estimation and magnetics inversion.

10:20 AM.... **Label-defect tolerance ability of deep learning inversion networks and its applications:** P. Yang¹, H. Xu², D. Liu¹, C. Tao¹, C. Wang¹, C. Yue¹, R. Guo^{*3} (1. BGP, CNPC; 2. Yangtze University; 3. BGP, CNPC (Non-Author)) (INT. AUD.: 3) Speaker: Rui Guo
▶ Poster Station: E

10:45 AM.... **Edge-InversionNet: Enabling efficient inference of InversionNet on edge devices:** Z. Wang¹, I. Putla¹, W. Jiang¹, Y. Lin² (1. George Mason University; 2. Los Alamos National Laboratory) (INT. AUD.: 3) Speaker: Zhepeng Wang
▶ Poster Station: F

11:10 AM **Deep compressed learning for 3D seismic inversion:** M. Gelboim², A. Adler^{*1}, Y. Sun³, M. Araya-Polo³ (1. Braude College of Engineering and MIT; 2. Braude College of Engineering; 3. TotalEnergies) (INT. AUD.: 3) Speaker: Amir Adler
▶ Poster Station: G

11:35 AM **An MT data inversion method constrained by seismic texture:** H. Zhou¹, R. Guo¹, M. Li¹, F. Yang¹, S. Xu¹, A. Abubakar² (1. Tsinghua University; 2. Schlumberger) (INT. AUD.: 4) Speaker: Hongyu Zhou
▶ Poster Station: H

NS P1 Imaging, Inversion, and Machine Learning in Near Surface Geophysics 2

Session Chairs: Elita Li and Junzhu Shen

Location: Poster Station 2

Synopsis: New methods and case studies for inversion and machine learning with near surface geophysical data.

10:20 AM.... **Improving dispersion measurement using weighted stacking based on polarization analysis:** B. Guan, J. Xia (Zhejiang University) (INT. AUD.: 4) Speaker: Bo Guan
▶ Poster Station: E

10:45 AM.... **Identification of vehicles from seismic signals using machine learning:** X. Zhu, J. Zhang, J. Zhang (University of Science and Technology of China (USTC)) (INT. AUD.:

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

3) Speaker: Xiaoxuan Zhu

► Poster Station: F

11:10 AM **Adaptive ambient noise data segmentation based on template matching:** Y. Liu, J. Xia (Zhejiang University) (INT. AUD.: 3) Speaker: Ya Liu

► Poster Station: G

11:35 AM **Estimating weathering layers from seismic refractions via attention-based FCN:** X. Ding, J. Zhang (University of Science and Technology of China) (INT. AUD.: 3)

Speaker: Xiangjun Ding

► Poster Station: H

RC P1 Methods 1

Session Chairs: Francisco Bolivar and Miguel Bosch

Location: Poster Station 10

Synopsis: Methodological innovation applied to integrated reservoir characterization.

10:20 AM **Image-based simulation of remaining oil and two-phase fluid flow in heterogeneous sandstones: The impact of pore-scale characteristics on macroscopic properties:** C. Li¹, S. Yang*² (1. Tianjin Branch of CNOOC China Limited; 2. China University of Petroleum (Non-Author)) (INT. AUD.: 4) Speaker: Sen Yang

► Poster Station: E

10:45 AM **The application of high frequency bright spot based on T-K energy wavelet transform in hydrocarbon detection:** D. Hou², J. Wang², C. Wang¹, Z. Lyu¹, X. Yu¹ (1. CNOOC; 2. CNOOC) (INT. AUD.: 3) Speaker: Dongjia Hou

► Poster Station: F

11:10 AM **Biot-Gassmann fluid term extraction based on the PP-PS inversion:** Q. Ma (SINOPEC Exploration & Production Research Institute) (INT. AUD.: 3) Speaker: Qi Ma

► Poster Station: G

11:35 AM **Deep carbonate reservoir characterization with unsupervised machine learning:** X. Zhu¹, L. Zhao¹, X. Zhao², Y. You², M. Xu¹, T. Wang¹ (1. Tongji University; 2. SINOPEC Petroleum Exploration and Production Research Institute) (INT. AUD.: 3) Speaker: Xuanying Zhu

► Poster Station: H

RP P1 Experimental Studies

Session Chairs: Julian Yao and Luis Zerpa

Location: Poster Station 2

Synopsis: This session focuses on experimental studies in rock physics.

10:20 AM **Cement to formation bond strength in carbonates:** A. Bathija, R. Martinez (Aramco Americas) (INT. AUD.: 3) Speaker: Arpita Bathija

► Poster Station: A

10:45 AM **Fluid and pressure effects on seismic dispersion and attenuation of Berea sandstone: Experimental investigations:** Q. Wei, J. Zhang, J. Chen (CNOOC) (INT. AUD.: 3) Speaker: Qianqian Wei

► Poster Station: B

11:10 AM **Fluid-solid interactions induced by ultrasonic S-waves in finely laminated porous rocks:** J. G. González, P. N. Sahay, T. Müller (CICESE) (INT. AUD.: 2)

Speaker: Josué González

► Poster Station: C

11:35 AM **WITHDRAWN**

SP P1 Multiple Removal Techniques 1

Session Chairs: Charles Ursenbach and Dirk Verschuur

Location: Poster Station 6

Synopsis: Various techniques for multiple prediction and attenuation including both internal and surface related multiples.

10:20 AM **An adaptative filter-based approach for Marchenko multiples attenuation scheme:** R. d. Santos¹, M.

Souza⁴, D. E. Apraez¹, V. K. Ramalho*¹, R. Pestana², D. F. Pacheco¹, L. D. Vergne³, J. d. Maciel⁵ (1. SENAI CIMATEC; 2. Federal University of Bahia; 3. Senai Cimatec; 4. SENAI CIMATEC; 5. SENAI CIMATEC) (INT. AUD.: 5) Speaker: Victor Ramalho

► Poster Station: A

10:45 AM **Marchenko redatuming and seismic interferometry based internal multiple prediction for salt structures:** Z. Gu¹, J. Geng¹, R. Wu² (1. Tongji University; 2. University of California, Santa Cruz) (INT. AUD.: 2) Speaker: Zhiwei Gu

► Poster Station: B

11:10 AM **WITHDRAWN**

11:35 AM **Application of complex multiplex suppression technique in evaluation of Bozhong 26-6 hundred-million-ton-level oilfield:** X. Ma, J. Zhang, Z. Wang, J. Li, J. Wang (China National Offshore Oil Corporation (CNOOC) Limited) (INT. AUD.: 5) Speaker: Xugang Ma

► Poster Station: D

SP P2 Seismic Data Interpolation and Regularization 1

Session Chairs: Junru Jiao and Yi Xie

Location: Poster Station 6

Synopsis: Application of machine learning and advanced signal processing techniques for multi-dimensional seismic data regularization, interpolation, and reconstruction.

10:20 AM **Multi-dimensional seismic trace regularization using machine learning with Delaunay tessellation:** Z. Yeoh, S. Kim, J. Park, S. Seol, J. Byun (Hanyang University (RISE. ML)) (INT. AUD.: 2) Speaker: Zeu Yeoh

► Poster Station: E

10:45 AM **Unsupervised deep learning for seismic data reconstruction:** G. Chen¹, Y. Liu¹, M. Zhang² (1. China University of Petroleum - Beijing; 2. China University of Petroleum - Beijing at Karamay) (INT. AUD.: 3) Speaker: Gui Chen

► Poster Station: F

11:10 AM **Accurate seismic data interpolation based on multiband intelligent training:** X. Sun, B. Wang, T. Mo (Tongji University) (INT. AUD.: 3) Speaker: Xueyi Sun

► Poster Station: G

11:35 AM **Quaternion curvelet transform based multicomponent seismic data reconstruction:** F. Li¹, J. Gao¹, Y. Wang², W. Sun², Y. Wang¹, Y. Fu¹ (1. China University of Geosciences, Beijing; 2. CNOOC Research Institute Ltd.) (INT. AUD.: 2) Speaker: Fan Li

► Poster Station: H

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

STGM P1 Contractual Tectonics

Session Chairs: Adam Cawood and Molly Turko

Location: Poster Station 4

Synopsis: Studies characterizing and quantifying contractional deformation.

- 10:20 AM.... **Absolute age of deformation and duration of folding in the Southern Pyrenees from U-Pb dating of calcite veins:** D. Muñoz-López¹, D. Cruset², J. Vergés², A. Koeshidayatullah¹, A. Travé³ (1. College of Petroleum Engineering and Geosciences, King Fahd University of Petroleum and Minerals; 2. Group of Dynamics of the Lithosphere (GDL), Geosciences Barcelona, GEO3BCN-CSIC, Lluís Solé i Sabarís s/n, 08028 Barcelona, Spain; 3. Departament de Mineralogia, Petrologia i Geologia Aplicada, Facultat de Ciències de la Terra, Universitat de Barcelona (UB), Martí i Franquès s/n, Barcelona, 08028, Spain) (INT. AUD.: 3) Speaker: Daniel Muñoz-López
► Poster Station: A
- 10:45 AM.... **Along-strike structural heterogeneity of the Main Frontal Thrust in Western Himalayas, Pakistan:** K. A. Qureshi¹, J. Suppe¹, S. D. Khan¹, Z. Khan² (1. University of Houston; 2. Pakistan Petroleum Ltd. Pakistan) (INT. AUD.: 4) Speaker: Kamil Qureshi
► Poster Station: B
- 11:10 AM **From foredeep to thrusts: The later cretaceous Great Sanjiang foreland basin, Northeast China:** G. Wu, F. Zhiqiang, J. Yun (SINOPEC Petroleum Exploration & Production Research Institute(PEPRIS)) (INT. AUD.: 3) Speaker: Gaokui Wu
► Poster Station: C
- 11:35 AM **Maps of continental scale tectonic stress/strain with a focus upon the Ancestral Rocky Mountain Orogeny:** V. Nowaczewski¹, D. M. Sturmer², B. Vaughan³ (1. University of Cincinnati; 2. University of Cincinnati; 3. University of Cincinnati) (INT. AUD.: 3) Speaker: Vincent Nowaczewski
► Poster Station: D

STGM P2 Extensional Tectonics and Salt-related Systems

Session Chairs: Patricia Ascanio-Pellon and Elizabeth Horne

Location: Poster Station 4

Synopsis: Large-scale studies focused on extensional tectonics and basin formation.

- 10:20 AM.... **Rift and thermal sagging controls on the distribution and thickness of the Barremian-Aptian Lagoa Feia formation which hosts a source-reservoir unit, deepwater Campos basin, Brazil:** R. Beltran, P. Mann (University of Houston) (INT. AUD.: 3) Speaker: Ruth Beltran
► Poster Station: E
- 10:45 AM.... **What makes Campeche tick? Evaluating controls on deformation patterns and styles in the salt-detached Campeche Basin, southern Gulf of Mexico: insights from physical models:** T. P. Dooley¹, M. Hudec² (1. The University of Texas at Austin; 2. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Tim Dooley
► Poster Station: F

- 11:10 AM **Control of structural and crustal heterogeneities in the play distributions of the Sergipe-Alagoas Basin (Northeast Brazil):** O. Correia Filho¹, T. Miranda^{*1}, J. A. Barbosa¹, J. T. Cruz Oliveira², J. T. Magalhães², S. P. Neves¹, B. B. Carvalho³, A. L. Celestino¹, G. Mariano¹, V. H. Neumann¹, I. F. Gomes¹ (1. Federal University of Pernambuco; 2. , Federal University of Recôncavo da Bahia – UFRB; 3. Petrobras) (INT. AUD.: 3) Speaker: Tiago Miranda
► Poster Station: G
- 11:35 AM **Paleogene geological structure analysis and exploration significance of Bohong Depression, in Bohai Bay basin:** G. Wang¹, Y. Chuai¹, Y. Ren¹, X. Yu², Y. Chen¹ (1. China National Offshore Oil Corporation(CNOOC) Ltd Tian Jin Branch; 2. China National Offshore Oil Corporation(CNOOC) Ltd Tian Jin Branch, Tian Jin, China) (INT. AUD.: 4) Speaker: Gaiwei Wang
► Poster Station: H

STUD P1 Student Session 1

Session Chairs: Yongchae Cho and Nan You

Location: Poster Station 1

Synopsis: This session consists of student posters that integrate geophysical and geological methods for site, basin and reservoir characterization.

- 10:20 AM.... **A comprehensive approach to site characterization using integrated geophysical and geotechnical methods: A case study from southwest Nigeria:** A. Ayodele¹, T. Ore², G. Ogunlade³, A. Jemiseye¹ (1. University of Louisiana at Lafayette; 2. West Virginia University; 3. Liberty University) (INT. AUD.: 1) Speaker: Ayobami Ayodele
► Poster Station: A
- 10:45 AM.... **Pre-Andean tectonics and basin evolution during late Paleozoic glaciation along the SW Gondwanan convergent margin, Precordillera and Sierras Pampeanas, Argentina:** N. Regier¹, B. K. Horton¹, D. Starck², F. Fuentes³ (1. University of Texas at Austin; 2. Independent; 3. YPF) (INT. AUD.: 3) Speaker: Nicholas Regier
► Poster Station: B
- 11:10 AM **3D characterization for CO₂ geo-sequestration using a high-resolution seismic survey: Powder River Basin, Wyoming, USA:** B. Erdinc¹, A. Tura² (1. Colorado School of Mines; 2. Colorado School of Mines) (INT. AUD.: 3) Speaker: Burak Erdinc
► Poster Station: C
- 11:35 AM **Unconformity characteristics at the top of the Sinian and its significance for oil and gas exploration in Sichuan Basin:** N. Jiang¹, X. Wang¹, J. Wang¹, X. Yang¹, Z. Xu², C. Luo² (1. Southwest Petroleum University; 2. Chongqing University of Science & Technology) (INT. AUD.: 3) Speaker: Nan Jiang
► Poster Station: D

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

STUD P2 Student Session 2

Session Chairs: Dawei Liu and Yi Shen

Location: Poster Station 3

Synopsis: This session consists of student posters that leverage new techniques in geophysics like DAS, deep learning and geophysical integration with geotech.

10:20 AM **Predicting fracture-hit time and location: A Cross-well strain-based early warning system:** P. Li¹, G. Jin², R. W. Hammack³, C. Kohnke⁴ (1. Colorado School of Mines; 2. Colorado School of Mines; 3. Department of Energy; 4. National Energy Technology Lab) (INT. AUD.: 3)
Speaker: Peiyao Li

► Poster Station: A

10:45 AM **Deep probabilistic diffusion model-based seismic inversion:** T. Ore, D. Gao (West Virginia University) (INT. AUD.: 3) Speaker: Tobi Ore
► Poster Station: B

11:10 AM **Geophysics applied to geotechnical study in Ouro Preto, MG – Brazil – Part 2:** G. d. Cardoso, M. C. Barbosa, J. J. da Silva, L. S. Oliveira, J. F. Schiavon, R. A. Maia, F. A. de Oliveira, P. L. dos Reis (Universidade Federal de Ouro Preto) (INT. AUD.: 3)
Speaker: Gabriel Cardoso

► Poster Station: C

11:35 AM **Modeling fiber optic distributed magnetic sensing for subsurface monitoring:** T. Snyder¹, S. Yuan², E. Martin³, D. Homa⁴, G. Pickrell⁴, A. Wang⁵, D. Buitenkamp⁵, L. Theis⁵ (1. Colorado School of Mines; 2. Colorado School of Mines; 3. Colorado School of Mines; 4. Virginia Tech; 5. Sentek Instrument) (INT. AUD.: 2) Speaker: Tomas Snyder

► Poster Station: D

STUD P3 Student Session 3

Session Chairs: Carla Carvajal and Howard Harper

Location: Poster Station 5

Synopsis: This session consists of student posters that describe depositional environments and systems using a variety of methods.

10:20 AM **Depositional environment and reservoir characteristics of the upper woodbine sandstones in outcrop on Lake Grapevine, Texas:** R. Pastor¹, R. A. Denne², B. Henk¹ (1. Texas Christian University; 2. Texas Christian University) (INT. AUD.: 3) Speaker: Ryan Pastor

► Poster Station: A

10:45 AM **Climatic control on the depositional architecture and evolution of Early-Mid Miocene fluvial system, Pearl River Mouth Basin, South China Sea:** L. Lin, H. Zhuo (Sun Yat-sen university) (INT. AUD.: 3) Speaker: Li'e Lin

► Poster Station: B

11:10 AM **Subsurface controls on padre island dune morphology: Constraints from time domain and frequency domain electromagnetic techniques:** R. Abdelrehim, M. Ahmed (Texas A&M University - Corpus Christi) (INT. AUD.: 3) Speaker: Ramadan Abdelrehim

► Poster Station: C

11:35 AM **Paleoenvironmental implications of organic Re and Os enrichment in the Miocene Monterey formation, Santa Maria Basin:** A. Vielma (University of Houston)

(INT. AUD.: 3) Speaker: Ana Vielma

► Poster Station: D

STUD P4 Student Session 4

Session Chairs: Yuanyuan Ma and Jie Shen

Location: Poster Station 7

Synopsis: This session consists of student abstracts that explore depositional processes and sedimentary rock properties.

10:20 AM **Static modeling and characterization of deep saline aquifers with limited data for carbon sequestration:** D. N. Herman¹, A. Tura¹, Y. Ning¹, D. Gallegos², J. Bridgeman² (1. Colorado School of Mines; 2. Oxy) (INT. AUD.: 3) Speaker: David Herman

► Poster Station: A

10:45 AM **Outcrop architectures and characterization of coarse-grained facies within Early Permian Wolfcamp-A Equivalent strata in the Glass Mountains along the Southern Margin of the Delaware Basin:** J. Wempner (Texas A&M University) (INT. AUD.: 3)
Speaker: Jenelle Wempner

► Poster Station: B

11:10 AM **Porosity and permeability calculations in a Biolithite using x-ray tomography images:** A. Aderemi¹, E. Charalampidou¹, Z. Jiang¹, E. Tudisco² (1. Heriot-Watt University; 2. Lund University) (INT. AUD.: 2) Speaker: Adetomiwa Aderemi

► Poster Station: C

11:35 AM **Stratigraphy and Geochemistry of the Woodbine-Eagle Ford Transition, North-Central Texas:** G. M. Gregory¹, R. A. Denne², B. Henk¹ (1. Texas Christian University; 2. Texas Christian University) (INT. AUD.: 4) Speaker: Gunnar Gregory

► Poster Station: D

STUD P5 Student Session 5

Session Chairs: Jianping Huang and Lina Xu

Location: Poster Station 9

Synopsis: This session consists of student posters that explore different energy and carbon capture systems.

10:20 AM **A geothermal reservoir characterization of the Deadwood Formation, Williston Basin:** G. M. Bennett (MUDTOC Member) (INT. AUD.: 3)
Speaker: Gabrielle Bennett

► Poster Station: A

10:45 AM **Magmatic CO₂-injection into the gas reservoir in the Baiyun sag, Pearl River Mouth Basin, South China Sea:** Y. He (Peking University) (INT. AUD.: 4)
Speaker: Yanxin He

► Poster Station: B

11:10 AM **Hydrocarbon prospectivity in the San Pedro offshore basin of the Dominican Republic based on identification of Upper Cretaceous and Lower Cenozoic source rock intervals:** J. Gorosabel-Araus¹, J. Granja Bruña², P. Mann¹, A. Gallego-Mingo³, J. Mas Mayoral², S. Lopez-Andres², M. Canales², M. Arribas², T. Adatte⁴, G. Rosario⁵, R. Villafaña⁵, A. Carbo² (1. University of Houston; 2. Complutense University of Madrid; 3. CEPESA; 4. Lausanne University; 5. Dominical Geological Survey)

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

- (INT. AUD.: 4) Speaker: Jose Miguel Gorosabel-Araus
► Poster Station: C
- 11:35 AM.... **Detecting seafloor gas leakage from geologic carbon storage sites: Proof-of-concept using laboratory-scale distributed acoustic sensing:** B. C. Miranda¹, J. Ajo-Franklin², J. Correa³ (1. Student; 2. RICE; 3. Lawrence Berkeley National Laboratory) (INT. AUD.: 3) Speaker: Brianna Miranda
► Poster Station: D

STUD P6 Student Session 6

Session Chairs: David Lankford-Bravo and Carlos Perez Solano

Location: Poster Station 10

Synopsis: This session consists of student posters that explore tectonics and hydrocarbon prospectivity.

- 10:20 AM.... **Control of crustal thickness, type, and burial history on heat flow and petroleum basin modeling of the Guyana-Suriname rifted-passive margin:** K. Shipper¹, A. Pepper², P. Mann¹ (1. University of Houston; 2. ThisIsPetroleumSystem) (INT. AUD.: 3) Speaker: Kenneth Shipper
► Poster Station: A
- 10:45 AM.... **Impact of Jurassic volcanic/non-volcanic margin boundary on HC prospectivity, Northwestern Africa:** M. Shahriar, P. Mann (University of Houston) (INT. AUD.: 3) Speaker: Md Upal Shahriar
► Poster Station: B
- 11:10 AM.... **Basement architecture and deep-water stratigraphy of the SW Caribbean and its implications for untapped petroleum systems in the Colombian Basin:** J. Ramos (University of Houston) (INT. AUD.: 2) Speaker: Juan Pablo Ramos
► Poster Station: C
- 11:35 AM.... **Relationships between Red Sea opening directions, crustal types and thicknesses, evaporite distribution, and hydrocarbon potential:** M. Abdelfatah, P. Mann (University of Houston) (INT. AUD.: 3) Speaker: Mohamed Abdelfatah
► Poster Station: D

AAS P2 Compressional and Shear Waves

Session Chairs: Arnab Dhara and Yuanyuan Ma

Location: Poster Station 1

Synopsis: This session focuses on the multicomponent and well-log technologies.

- 1:20 PM..... **PP-PS depth-domain AVA inversion:** M. Cavalca, R. P. Fletcher (SLB) (INT. AUD.: 3) Speaker: Maud Cavalca
► Poster Station: A
- 1:45 PM..... **Application of shear-wave seismic interpretation technology in shallow gas clouds area:** Y. Wang¹, Z. Deng¹, Z. Chen¹, Y. Cai¹, R. Zhang², D. Wu¹, X. Xi¹ (1. BGP, CNPC; 2. University of Louisiana at Lafayette) (INT. AUD.: 2) Speaker: Yan Wang
► Poster Station: B
- 2:10 PM..... **Damped least squares based deterministic PP wave and SH-SH wave joint inversion method:** Y. Lin¹, G. Zhang¹, B. Wang¹, S. Chen³, M. Huang² (1. China University of Petroleum (East China); 2. Shenzhen

Branch, CNOOC(China) Co., Ltd; 3. Northeast Petroleum University) (INT. AUD.: 4) Speaker: Ying Lin
► Poster Station: C

- 2:35 PM..... **Ultrasonic measurements of elastic anisotropy of granitic rocks for enhanced geothermal reservoirs:** M. D. Lopez Carrasquilla¹, J. Parsons², T. Long², M. Sun², Y. Zheng¹, D. Han² (1. university of Houston; 2. University of Houston) (INT. AUD.: 1) Speaker: Mayra Lopez Carrasquilla
► Poster Station: D

ACQ P1 OBN Design and Deployment

Session Chairs: Guillaume Richard and Simon Shaw

Location: Poster Station 2

Synopsis: Main themes include different methods for correcting OBN clock drift and new technologies to improve OBN deployment efficiency.

- 1:20 PM..... **A case study of the multi-position node deployment technology and its application in marine seismic exploration:** M. Cao, Z. Xu, m. luo, x. wei, h. mao, z. liu (BGP) (INT. AUD.: 3) Speaker: Mingqiang Cao
► Poster Station: A
- 1:45 PM..... **OBN clock drift: A comprehensive study of 100 nodes with CSAC clocks drifting for up to 91 days:** S. Rentsch (Shearwater Geoservices) (INT. AUD.: 2) Speaker: Susanne Rentsch
► Poster Station: B
- 2:10 PM..... **3D seismic survey design by maximizing the spectral gap:** Y. Zhang², Z. Yin^{*1}, O. López³, A. Siahkoohi⁴, M. Louboutin⁵, F. J. Herrmann⁶ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Florida Atlantic University; 4. Rice University; 5. Georgia Institute of Technology; 6. Georgia Institute of Technology) (INT. AUD.: 3) Speaker: Ziyi Yin
► Poster Station: C
- 2:35 PM..... **A temperature compensated clock correction for use on ocean bottom nodes utilizing crystal oscillators:** T. J. Bunting, J. Jurok, J. Wallace (PXGEO) (INT. AUD.: 3) Speaker: Timothy Bunting
► Poster Station: D

BMPS P1 Petroleum Systems Case Studies 1

Session Chairs: Rajesh Goteti and Ahmed Radwan

Location: Poster Station 4

Synopsis: This session showcases regional case studies pertaining to elements of a petroleum system such as preo-pressure evolution, expulsion estimation and impact of igneous intrusions on hydrocarbon accumulation.

- 1:20 PM..... **Tracing recent shifts in Lake Tanganyika's oxycline using modern and recent sediments: A case study from Nkamba Bay (Zambia):** N. Mwangala (University of Kentucky) (INT. AUD.: 3) Speaker: Njahi Mwangala
► Poster Station: A
- 1:45 PM..... **Pressure prediction using converted shear waves from OBN data: A rock physics approach:** P. Mazumdar¹, K. Searles¹, B. Olofsson¹, J. Gaiser², T. Krishnasamy³ (1. ExxonMobil Technology and Engineering Company; 2. Gaiser Geophysical Consulting; 3. TGS) (INT. AUD.: 5)

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

Speaker: Prajnajyoti Mazumdar

► Poster Station: B

2:10 PM..... **Characterization and estimation of ultimate expulsion potential (UEP) of Aptian “Vembo Shale” from South Gabon Basin:** R. Das¹, P. S. Das¹, S. Dasgupta¹, Z. A. Zulkifli¹, M. Ismail², F. B. Mohamad Khatib² (1. Petronas Carigali SDN BHD; 2. Petronas Carigali Upstream SA) (INT. AUD.: 3) Speaker: Ranajit Das

► Poster Station: C

2:35 PM..... **The modification effect of magma intrusion on rift basin and its special hydrocarbon accumulation pattern: Eocene Lufeng 13 northwest subsag, Pearl River Mouth Basin, South China Sea:** Q. Wu, Z. Xiao, X. Huang (Shenzhen Branch of China National Offshore Oil Corporation Limited) (INT. AUD.: 4)

Speaker: Qiongling Wu

► Poster Station: D

CO2 P2 Site Characterizations and Case Studies 2

Session Chairs: Michael Branston and Camelia Knapp

Location: Poster Station 3

Synopsis: Resource and site characterizations including reservoir evaluations, modeling, and simulations.

1:20 PM..... **Assessing CO₂ storage capacity in onshore saline aquifers: An example from the Frio Formation, South Texas, USA:** C. A. Uroza¹, K. Meador², S. Hovorka¹, K. Romanak¹, S. Bhattacharya¹, D. Dunlap¹ (1. University of Texas at Austin; 2. Consulting Geophysicist) (INT. AUD.: 3) Speaker: Carlos Uroza

► Poster Station: A

1:45 PM..... **The effect of depositional environment on CO₂ storage:** T. O. Osunrinde, S. Yelissetti, V. Sanchez (Texas A&M University-Kingsville) (INT. AUD.: 4)

Speaker: Taiwo Osunrinde

► Poster Station: B

2:10 PM..... **Numerical modeling study of the CO₂ trapping characteristics of thin-skinned fold-and-thrust belts: A case study of the Catawba Syncline, Virginia, United States of America:** L. Koehn, R. Pollyea, P. Prince (Virginia Tech) (INT. AUD.: 3) Speaker: Lars Koehn

► Poster Station: C

2:35 PM..... **3D seismic structural architecture and seal-ability of faulted subsurface reservoirs in the northern Gulf of Mexico continental shelf: Implications for CO₂ sequestration:** M. O'Donnell¹, R. Kagaju¹, U. O. Anyiam¹, E. E. Uzuegbu² (1. Hope College; 2. SLB (Formerly Schlumberger)) (INT. AUD.: 4)

Speaker: Madeleine O'Donnell

► Poster Station: D

FWI P2 Applications 1

Session Chairs: Soumya Roy and Zhiyuan Wei

Location: Poster Station 5

Synopsis: Application of full waveform inversion in complex geological settings including methods to determine uncertainty in marine and land data.

1:20 PM..... **Uncertainty quantification of full-waveform inversion using adaptive MCMC method:** S. Hu, Z.

Zhao (University of Texas at Austin) (INT. AUD.: 3)

Speaker: Shuhua Hu

► Poster Station: A

1:45 PM..... **High resolution imaging by dynamic matching FWI in the presence of AVO effects:** F. Gao¹, S. Dong¹, Y. He¹, J. Sheng¹, F. Liu¹, B. Wang¹, C. Calderon¹, Y. Ivanov², F. Marcy², O. Aaker² (1. TGS; 2. Aker BP) (INT. AUD.: 2)

Speaker: Fuchun Gao

► Poster Station: B

2:10 PM..... **Potential of FWI imaging for shallow turbidite shadow zone: A case study:** S. Sarkar¹, J. Sheng¹, F. Liu², D. M. Davies³, R. Ha¹ (1. TGS; 2. TGS; 3. TGS) (INT. AUD.: 4)

Speaker: Swarup Sarkar

► Poster Station: C

2:35 PM..... **Reflection FWI to correct localized velocity error on land data:** Z. Meng¹, X. Hu², G. Zhang², W. Zhao², X. Yang², Y. Li², C. Zhang¹, M. Zhou¹, X. Liu¹, M. Luo¹, Y. Chen¹ (1. Sinopec Tech Houston; 2. Sinopec Henan Oilfield) (INT. AUD.: 3) Speaker: Zheng Meng

► Poster Station: D

GCHEM P2 Geochemical Methods and Tools 2

Session Chairs: Fausto Mosca and Oliver Mullins

Location: Poster Station 7

Synopsis: Geochemical methods and tools for rocks and fluids.

1:20 PM..... **Low temperature hydrous pyrolysis applications for geochemical analyses of cuttings and sidewall core samples:** T. Ruble¹, J. Adams², M. Flannery³ (1. Stratum Reservoir; 2. Stratum Reservoir; 3. Stratum Reservoir) (INT. AUD.: 1) Speaker: Tim Ruble

► Poster Station: A

1:45 PM..... **Improving organofacies identification and source rock evaluation using predictive modelling:** E. Setoyama¹, S. Gare², D. Beti¹, C. Kesler¹, T. Doré¹ (1. Energy & Geoscience Institute, University of Utah; 2. Jeunes Chercheurs Associés) (INT. AUD.: 2)

Speaker: Eiichi Setoyama

► Poster Station: B

2:10 PM..... **Beyond the edge of the known Woodbine universe in Polk County, Texas:** S. Dangtran, M. Wehner, P. Johnson, M. Pope, A. Donovan (Texas A&M University) (INT. AUD.: 3) Speaker: Sidney Dangtran

► Poster Station: C

2:35 PM..... **Assessing the origin of flowback waters using isotopic signatures: Implication for enhancing well safety:** S. S. Mutairi (Saudi Aramco) (INT. AUD.: 5) Speaker: Sattam Mutairi

► Poster Station: D

INT P3 AI Based Seismic Interpretation Workflows 1

Session Chairs: Abdoulshakour Nour and Bhuvaneshwari Sankaranarayanan

Location: Poster Station 8

Synopsis: AI based seismic interpretation workflows and algorithms.

1:20 PM..... **Application of AI-based seismic interpretation workflows for CCUS: Examples from the southern North Sea and the Illinois Basin:** R. M. Williams¹, A. Cader¹, H. Garcia² (1. Geoteric; 2. Geoteric) (INT. AUD.: 3)

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

- Speaker: Ryan Williams
► Poster Station: A
- 1:45 PM..... **An application of deep learning for direct seismic inversion to petrophysical properties:** C. Lew¹, C. D. MacBeth², A. ElSheikh² (1. PETRONAS; 2. Heriot Watt University) (INT. AUD.: 3) Speaker: Chean Lin Lew
► Poster Station: B
- 2:10 PM..... **WITHDRAWN**
- 2:35 PM..... **Dynamic depth prediction technology based on SVM during horizontal wells drilling:** J. Huang, J. Ming, J. Wang, H. Tang* (China National Offshore Oil Corporation(CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Hebing Tang
► Poster Station: D

MLDA P2 Reservoir Modeling 1

Session Chairs: Fan Jiang and Dawei Liu

Location: Poster Station 9

Synopsis: Enhancing reservoir modeling with machine learning applications.

- 1:20 PM..... **Physics-constrained sequence learning for shale gas production forecasting in the Weirong Shale Gas Field, Sichuan Basin, China:** J. Chang¹, T. Ye¹, D. Zhang¹, Y. Xiao*¹, Y. Li² (1. SINOPEC Exploration and Production Research Institute; 2. Hefei University of Technology) (INT. AUD.: 4) Speaker: Yitian Xiao
► Poster Station: A
- 1:45 PM..... **Sample efficient learned decision making in controllable stochastic dynamical systems with applications to subsurface modeling of oil and gas reservoirs:** R. Farrell¹, C. Bajaj² (1. University of Texas at Austin; 2. University of Texas at Austin) (INT. AUD.: 3) Speaker: Ryan Farrell
► Poster Station: B
- 2:10 PM..... **A new physical and data-driven method for permeability prediction in ultra-deep tight sandstone reservoirs:** P. Shi¹, P. Zhao¹, Z. Mao¹, K. Bie², D. Cai², S. Xu², J. Feng², P. Shi³ (1. China University of Petroleum, Beijing; 2. Research Institute of Petroleum Exploration and Development, Tarim Oilfield Company, PetroChina; 3. Chengdu University of Information Technology) (INT. AUD.: 3) Speaker: Pengyu Shi
► Poster Station: C
- 2:35 PM..... **Intelligent reservoir evaluation and prediction based on machine learning method:** W. Zhao¹, T. Liu² (1. Tongji University; 2. China University of Petroleum (Beijing) at Karamay) (INT. AUD.: 3) Speaker: Wenjun Zhao
► Poster Station: D

RC P2 Methods 2

Session Chairs: Umberto Barbato and Jorge Fernandez-Concheso

Location: Poster Station 10

Synopsis: Methodological innovation applied to integrated reservoir characterization.

- 1:20 PM..... **Multi-source information fusion for broadband acoustic impedance modeling:** T. Lei, H. Wang, R. Xu, S. Sheng, K. Yang (Tongji University) (INT. AUD.: 5) Speaker: Ting Lei
► Poster Station: A

- 1:45 PM..... **A new method of shallow-water delta reservoir characterization based on ant body algorithm under a sparse well network:** X. Liu, W. Hou, W. Zhang, L. Gan, X. Wang (CNOOC China Limited, Tianjin Branch) (INT. AUD.: 5) Speaker: Xiaohan Liu
► Poster Station: B
- 2:10 PM..... **Multidimensional data-driven characterization of deepwater turbidite deposits, Leonardian Bone Spring Formation, Delaware Basin, Southeast New Mexico and West Texas:** R. Zhai¹, M. J. Pranter², J. Pigott¹ (1. University of Oklahoma; 2. University of Oklahoma) (INT. AUD.: 5) Speaker: Rui Zhai
► Poster Station: C
- 2:35 PM..... **Extraction of pore thickness ratio by using minimum variance of RGB subtraction:** Y. Lin¹, Y. Li¹, C. Su¹, Y. N. Lin² (1. Exploration and Development Research Institute; 2. Academia Sinica) (INT. AUD.: 4) Speaker: Yi-Wei Lin
► Poster Station: D

SP P3 Denoise and Deblend

Session Chairs: Mariana Gherasim and Boming Wu

Location: Poster Station 6

Synopsis: Novel techniques for seismic data processing and analysis with applications to filtering, denoising and deblending.

- 1:20 PM..... **Plane-wave destruction beyond aliasing:** S. Fomel (University of Texas at Austin) (INT. AUD.: 3) Speaker: Sergey Fomel
► Poster Station: A
- 1:45 PM..... **Revisiting stacking:** S. Fomel (University of Texas at Austin) (INT. AUD.: 4) Speaker: Sergey Fomel
► Poster Station: B
- 2:10 PM..... **Adaptive non-sampled shearlet transform surface wave suppression:** S. Lv¹, X. Gong¹, B. Hu¹, Q. Cheng¹, J. Zhang² (1. Jilin University; 2. Jilin University) (INT. AUD.: 4) Speaker: Shiqi Lv
► Poster Station: C
- 2:35 PM..... **Addressing complex internal multiple contamination in the Gulf of Mexico with optimized wave-equation based prediction and post-imaging curvelet matching:** F. Xavier de Melo¹, B. Szydlik¹, H. Yao¹, I. Williams¹, Z. J. Wu², D. Desta¹ (1. Slb; 2. Slb) (INT. AUD.: 3) Speaker: Frederico Xavier de Melo
► Poster Station: D

AAS P3 Facies and Fluids

Session Chairs: Venkatesh Anantharamu and Robert Soubaras

Location: Poster Station 1

Synopsis: This session covers topics on the estimation of the subsurface facies and fluids estimation.

- 3:40 PM..... **Pseudo-frequency-dependent attenuation estimation based on frequency-independent CFS method:** H. Li, B. Liu, W. Zhou (King Fahd University of Petroleum and Minerals) (INT. AUD.: 3) Speaker: Huijian Li
► Poster Station: E
- 4:05 PM..... **Extend direct probabilistic inversion for facies to efficiently generate facies realizations conditioned on seismic data:** A. Jakobsen¹, R. Cova*² (1. Qeye; 2. Qeye)

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

(Non-Author)) (INT. AUD.: 3) Speaker: Raul Cova
▶ Poster Station: F

4:30 PM..... **Optimized characterization workflow for naturally fractured reservoirs using seismic anisotropy attributes in the Middle Magdalena Valley basin, Colombia.:** O. Moreno¹, E. Casaña¹, L. G. Figuera¹, I. C. Higuera¹, D. Garcia¹, J. Acosta¹, B. Roure² (1. Ecopetrol S.A.; 2. GeoSoftware) (INT. AUD.: 3) Speaker: Oscar Moreno
▶ Poster Station: G

4:55 PM..... **Research on hydrocarbon detection of heavy oil based on prestack track set optimization:** J. Zhang, Z. Ma, P. Zhang, T. Luo (CNOOC Limited, Tianjin Branch) (INT. AUD.: 3) Speaker: JH Zhang
▶ Poster Station: H

ACQ P2 Land Acquisition

Session Chairs: Dalila Cherief and John Naranjo

Location: Poster Station 2

Synopsis: This session features several new methods to solve various challenges associated with land acquisitions, such as scattered wave, coherent and incoherent noise, etc.

3:40 PM..... **Scattered wave acquisition: Why and how?:** D. Li (Beijing Century Kingdo Petro_Tech Co. Ltd.) (INT. AUD.: 4) Speaker: Dongan Li
▶ Poster Station: E

4:05 PM..... **Explosive source signature determination: Two unequal shots in the same hole, prediction of a third shot record and comparison with predictive deconvolution:** A. Ziolkowski¹, G. Baeten² (1. University of Edinburgh; 2. Shell) (INT. AUD.: 4) Speaker: Anton Ziolkowski
▶ Poster Station: F

4:30 PM..... **Comparing competing theories of land seismic acquisition design based on coherent and incoherent noise:** C. Stork (Land Seismic Noise Specialists) (INT. AUD.: 3) Speaker: Christof Stork
▶ Poster Station: G

4:55 PM..... **Geological near-surface models with meter-scale heterogeneity explain seismic speckle scattering noise:** A. Bakulin¹, A. Ramdani², D. Neklyudov³, I. Silvestrov¹ (1. Saudi Aramco; 2. King Abdullah University of Science and Technology; 3. IPGG SB RAS) (INT. AUD.: 1) Speaker: Andrey Bakulin
▶ Poster Station: H

BMPS P2 Quantitative Approaches for Validating and Constraining Basin Models

Session Chairs: Poorna Srinivasan and Luis Valencia Fermin

Location: Poster Station 4

Synopsis: The session comprises quantitative approaches to validate, constrain or assess uncertainty in various aspects of basin and petroleum system modeling.

3:40 PM..... **Basin and petroleum systems modeling of the Lake Edward basin, Albertine Graben, Uganda:** J. Ssuubi (Ministry of Energy and Mineral Development, Uganda) (INT. AUD.: 4) Speaker: Joshua Ssuubi
▶ Poster Station: E

4:05 PM..... **Forward stratigraphic modeling and uncertainty analysis of pre-salt source rock thickness in the**

southern Campos Basin, Brazil: An investigation of the impact of the main geological controls: A. G. Almeida¹, G. Garcia², A. D. Spigolon¹, M. R. Clavijo³, S. BOU DAHER³ (1. Petrobras; 2. Petrobras; 3. Beicip-Franlab) (INT. AUD.: 3) Speaker: Anderson Almeida
▶ Poster Station: F

4:30 PM..... **Quantitative evaluation of fault reservoir control in sand-rich strata using grey correlation analysis:** X. Yu, G. Wang, Y. Chen, D. Hou, T. Zhang (China National Offshore Oil Corporation(CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Xitong Yu
▶ Poster Station: G

4:55 PM..... **An open source toolbox to automate basin and petroleum system modeling for statistical analysis and uncertainty quantification:** M. A. Al Ibrahim (Saudi Aramco) (INT. AUD.: 3) Speaker: Mustafa Al Ibrahim
▶ Poster Station: H

CO2 P3 Monitoring 1

Session Chairs: Abidin Caf and Matthias Imhof

Location: Poster Station 3

Synopsis: This session will focus on carbon capture, storage modeling, optimization, and monitoring

3:40 PM..... **Active seismic monitoring of pore pressure changes in an analog reservoir:** T. Shadoan¹, J. Ajo-Franklin¹, T. Zhu², J. Patterson¹ (1. Rice University; 2. Penn State University) (INT. AUD.: 2) Speaker: Tanner Shadoan
▶ Poster Station: E

4:05 PM..... **Combined OBN and high-resolution 3D streamer acquisition for CO₂ monitoring: Initial model building and imaging results over Sleipner:** S. Stokes¹, S. David², E. Cho¹, D. Mondal¹, G. Stock¹, S. Baldock^{*1} (1. TGS; 2. TGS Norway) (INT. AUD.: 3) Speaker: Simon Baldock
▶ Poster Station: F

4:30 PM..... **A new workflow for time-lapse seismic metadata extraction and processing to continuously monitor and predict the CO₂ plume front:** F. Chen, K. Keim (Ovation Data Services) (INT. AUD.: 3) Speaker: Feng Chen
▶ Poster Station: G

4:55 PM..... **Microseismic sensor placement optimization for rapid leakage alarm of geologic carbon storage:** Y. Zi¹, L. Fan¹, X. Wu¹, J. Chen², Z. Han² (1. University of Houston; 2. University of Houston) (INT. AUD.: 3) Speaker: Yuan Zi
▶ Poster Station: H

FWI P3 Theory

Session Chairs: Hong Liang and Diancheng Wang

Location: Poster Station 5

Synopsis: Algorithm improvements including stabilization approaches and joint inversion methods.

3:40 PM..... **MFF net: a multi-scale feature fusion network for electromagnetic and seismic joint inversion:** Y. Wang¹, Z. Jia², W. Lu¹ (1. Tsinghua University; 2. Changsha University of Science And Technology) (INT. AUD.: 3) Speaker: Yonghao Wang
▶ Poster Station: E

4:05 PM..... **Gauss-Newton reflection waveform inversion with stochastic optimization:** T. Wang¹, S. Wu^{*2}, J. Cheng¹ (1.

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Tuesday, 29 August

- Tongji University; 2. Tongji University) (INT. AUD.: 4)
Speaker: Sihai Wu
► Poster Station: F
- 4:30 PM..... **Reflection waveform inversion regularized with structural constraints and scattered data interpolation:** C. Wu, H. Wang, B. Feng, T. Lei, R. Xu, s. sheng (Tongji University) (INT. AUD.: 5)
Speaker: Chengliang Wu
► Poster Station: G
- 4:55 PM..... **A graph-space optimal transport FWI approach based on a κ -generalized Gaussian distribution:** S. E. da Silva, G. Kaniadakis (Politecnico di Torino) (INT. AUD.: 1)
Speaker: Sergio Luiz da Silva
► Poster Station: H

INT P4 AI Based Seismic Interpretation Workflows 2

Session Chairs: David Lubo-Robles and Bo Zhang

Location: Poster Station 8

Synopsis: AI based seismic interpretation workflows and algorithms.

- 3:40 PM..... **Improving the generalization of deep learning models for robust seismic facies identification: A multi-domain adaptation approach:** T. Ore, D. Gao (West Virginia University) (INT. AUD.: 3) Speaker: Tobi Ore
► Poster Station: E
- 4:05 PM..... **Tectonic evolution of faults and fractures at the Soda Lake geothermal field in Nevada:** M. N. Bugti¹, Y. Zheng¹, L. Huang² (1. University of Houston; 2. Los Alamos National Laboratory) (INT. AUD.: 3)
Speaker: Muhammad Nawaz Bugti
► Poster Station: F
- 4:30 PM..... **Reducing the spectral difference between synthetic and field data for improving seismic fault interpretation:** X. Di, Y. Liu, G. Chen (China University of Petroleum (Beijing)) (INT. AUD.: 3) Speaker: Xi Di
► Poster Station: G
- 4:55 PM..... **The impact of synthetic seismic data generation method on automated AI-based horizon interpretation:** F. Vizeu, J. Zambrini*, A. Canning (Aspen Tech) (INT. AUD.: 4) Speaker: Joao Zambrini
► Poster Station: H

INTD P1 Reservoir Modeling and Drilling Decision

Session Chairs: Youfang Liu and David Tett

Location: Poster Station 7

Synopsis: Decision-making driven by integration methods.

- 3:40 PM..... **Automated integration of gamma ray measurements and azimuthal gamma ray images for consistent and optimized geosteering and improved drilling economics:** C. Jeong¹, P. Cazali², J. Gremillion¹, V. Sharma¹, F. Al Shaikh¹ (1. SLB; 2. Ecole Nationale Supérieure des Mines de Paris) (INT. AUD.: 3)
Speaker: Cheolkyun Jeong
► Poster Station: E
- 4:05 PM..... **Unlocking value through automated asset performance optimization for sustainable production:** Y. Agbor (Amazon Web Services) (INT. AUD.: 4)
Speaker: Yannick Agbor
► Poster Station: F

- 4:30 PM..... **Novel approaches for using reservoir engineering ensembles in decision making:** G. E. Brew, M. Butler, A. Dunne (Dynamic Graphics Inc.) (INT. AUD.: 3)
Speaker: Graham Brew
► Poster Station: G
- 4:55 PM..... **Evergreen digital subsurface geostructure and geomechanics model for optimized well drilling:** G. Yan¹, P. LIU¹, M. Sun¹, L. Liang², T. Lei³, Y. Huang¹, P. Bolchover¹ (1. SLB; 2. Schlumberger Ltd Research & Development; 3. SLB) (INT. AUD.: 4)
Speaker: Gongrui Yan
► Poster Station: H

MLDA P3 Novel Applications 1

Session Chairs: Atul Katole and Rafael Orozco

Location: Poster Station 9

Synopsis: Various advanced applications assessing seismic with large language models, digitizing raster images, and spatial risk modeling for reservoirs.

- 3:40 PM..... **GPT-4, can you process my seismic data?:** U. Waheed (King Fahd University of Petroleum and Minerals) (INT. AUD.: 1) Speaker: Umair bin Waheed
► Poster Station: E
- 4:05 PM..... **Spatial risk modeling using Bayesian simulation for petroleum and subsurface carbon storage systems:** C. Sandu (Aramco Americas) (INT. AUD.: 4)
Speaker: Constantin Sandu
► Poster Station: F
- 4:30 PM..... **Exploring the potential of ChatGPT for keywords analysis:** C. Liu¹, Y. Gan^{*2} (1. SK Earthon Co., Ltd.; 2. The University of Texas at Austin (Non-Author)) (INT. AUD.: 2)
Speaker: Yuqian (Philomena) Gan
► Poster Station: G
- 4:55 PM..... **Unlocking the full potential of vintage seismic data with machine learning:** P. D. Wardaya¹, A. Abdullah², E. Septama³, W. Pranowo², t. usman¹, N. Shihab¹, V. Rossa¹, r. pratama¹ (1. Pertamina; 2. Pertamina University; 3. Pertamina) (INT. AUD.: 2) Speaker: Pongga Wardaya
► Poster Station: H

RC P3 Methods 3

Session Chairs: Jorge Fernandez-Concheso and Gabriel Gil

Location: Poster Station 10

Synopsis: Methodological innovation applied to integrated reservoir characterization.

- 3:40 PM..... **On the estimation of reservoir properties from elastic properties using empirical equations:** F. J. Ruiz (Sinopec) (INT. AUD.: 4) Speaker: Franklin Ruiz
► Poster Station: E
- 4:05 PM..... **Migration of dolomite fines (dolo-trash) in Clear Fork reservoir, Goldsmith field, Permian Basin:** R. F. Lindsay (Lindsay Consulting LLC) (INT. AUD.: 4)
Speaker: Robert Lindsay
► Poster Station: F
- 4:30 PM..... **Improved carbonate reservoir characterization using formation density derived from pre-stack simultaneous inversion: A case study in West Kuwait:** R. Rajagopal, A.

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Tuesday, 29 August

Al-Otaibi*, M. A. Jaseem, T. Chen, B. F. Bahrouh (Kuwait Oil Company) (INT. AUD.: 4) Speaker: Alanood Al-Otaibi
▶ Poster Station: G

4:55 PM..... **Application of frequency-dependent attributes for gas prospect identification:** V. De Tomasi, A. J. Marini, M. Ferla, F. De Finis (Eni S.p.A.) (INT. AUD.: 3)
Speaker: Vittorio De Tomasi
▶ Poster Station: H

SP P4 Noise Removal 1

Session Chairs: Shihang Feng and Cintia Lapilli

Location: Poster Station 6

Synopsis: Advanced techniques for seismic noise filtering including conventional and deep-learning based solutions.

3:40 PM..... **Application of seismic noise filtering technology based on fast joint multi-domain deep learning in Bohai complex fault block oilfield:** C. Li¹, Y. Xiong², L. Gao³, J. Zheng¹ (1. CNOOC; 2. CNOOC; 3. CNOOC) (INT. AUD.: 5)

Speaker: Cai Li

▶ Poster Station: E

4:05 PM..... **First arrival enhancement by statics preserving filtering using surface-consistent constraints:** A. I. Quiaro¹, M. D. Sacchi² (1. University of Alberta; 2. University of Alberta) (INT. AUD.: 4) Speaker: Alejandro Quiaro
▶ Poster Station: F

4:30 PM..... **Template matching for harmonic noise attenuation in non-linear sweeps:** M. Caporal², J. Yoo², M. Almubarak^{*1}, C. Tsingas¹ (1. Saudi Aramco; 2. Aramco Overseas Company) (INT. AUD.: 3)
Speaker: Mohammed Almubarak
▶ Poster Station: G

4:55 PM..... **A field application of ground roll suppression via a self-supervised deep learning scheme:** S. Liu¹, C. Birnie¹, A. Bakulin², A. Dawood², I. Silvestrov², T. Alkhalifah¹ (1. KAUST; 2. Saudi Arabian Oil Co) (INT. AUD.: 3)
Speaker: Sixiu Liu
▶ Poster Station: H

4–6 December 2023 | Buenos Aires, Argentina

LATIN AMERICA
UNCONVENTIONAL[®]
RESOURCES TECHNOLOGY CONFERENCE
FUELED BY SPE • AAPG • SEG

**PARTICIPATE AT
LATAM URTeC 2023**

SPONSORING ORGANIZATIONS:



HOST
ORGANIZATIONS:



Asociación Argentina de Geólogos
y Geofísicos Petroleros



Argentine Petroleum Section
and Patagonia Section

Exhibits and Sponsorships Available

For more than a decade, URTeC has gathered specialists from industry and academia to share knowledge, experiences, and ideas on how to optimize processes and resources and make the industry more sustainable, focusing on science, technology, and integration of disciplines.

Plan now to exhibit at and sponsor the first in-person Latin America Unconventional Resources Technology Conference (URTeC) taking place at the Hilton Buenos Aires, 4–6 December 2023.

Contact us to book today.

Sue Ellen Rhine
Exhibit/Sponsor Sales
(Companies A-K)
serhine@seg.org

Tracy Thompson
Exhibit/Sponsor Sales
(Companies L-Z)
tthompson@aapg.org

LEARN MORE AT URTeC.org/latinamerica

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

AAS P4 Inversion

Session Chairs: Arpita Bathija and Nimisha Vedanti

Location: Poster Station 1

Synopsis: This session focuses on the seismic inversion technology.

10:20 AM.... **S-velocity model building based on large-angle seismic and its application in the exploration of baiyun deep water lithologic gas field:** W. Ao, J. Liu, W. Zhang, G. Peng, Y. Zhu, C. Meng (CNOOC China Limited, Shenzhen Brunch) (INT. AUD.: 5) Speaker: Wei Ao
▶ Poster Station: E

10:45 AM.... **Acoustic impedance multi-channel inversion constrained by spatial reflection features:** Y. m. Yang¹, X. Yin², K. Li¹ (1. China University Of Petroleum; 2. China University Of Petroleum (East)) (INT. AUD.: 4) Speaker: Ya Yang
▶ Poster Station: F

11:10 AM **Stochastic inversion method based on a priori information of compression-sensing divided-frequency waveform indication:** Y. Lin¹, S. Chen², B. Wang¹ (1. China University of Petroleum (East China); 2. Northeast Petroleum University) (INT. AUD.: 4) Speaker: Ying Lin
▶ Poster Station: G

11:35 AM **Comparison of three Bayesian Methods for lithofluid facies prediction using elastic properties:** J. Zhang¹, K. Wolf², A. Yusifov¹, M. Walker¹, P. Paramo¹, J. Winterbourne¹, R. Biswas³, A. Roy¹, Q. Liu⁴, X. Liu⁴ (1. bp; 2. bp; 3. bp; 4. University of Texas at Austin) (INT. AUD.: 3) Speaker: Jingfeng Zhang
▶ Poster Station: H

ACQ P3 Compressive Sensing and Signal Processing

Session Chairs: Keith Millis and Adrian Peinado

Location: Poster Station 2

Synopsis: This session mainly comprises several new applications of compressive sensing and signal processing.

10:20 AM.... **Compressive sensing for simultaneous interpolation and regularization of the off-the-grid seismic data:** L. Dong¹, S. Yu², C. Wang¹, Y. Chen², X. An¹, Y. Xu² (1. BGP, CNPC; 2. Harbin Institute of Technology) (INT. AUD.: 5) Speaker: Lieqian Dong
▶ Poster Station: E

10:45 AM.... **Ultra-deep Jurassic acquisition technology and its application in dual-complex low S/N ratio area, Qaidam Basin:** Y. Wu¹, Z. He², W. Di¹, Y. Wang³, H. Han¹, H. Yao¹ (1. BGP, CNPC; 2. Chengdu University of Technology; 3. Qinghai Oilfield Company, PetroChina) (INT. AUD.: 5) Speaker: Yongguo Wu
▶ Poster Station: F

11:10 AM **Deep learning assisted compressive sensing for seismic data:** N. Iqbal¹, M. Masood¹, M. Alfarraj², U. Waheed³ (1. King Fahd University of Petroleum and Minerals; 2. King Fahd University of Petroleum and Minerals; 3. King Fahd University of Petroleum and Minerals) (INT. AUD.: 2) Speaker: Naveed Iqbal
▶ Poster Station: G

11:35 AM **Measurement and correction of geophone-ground coupling for massive sensors in the field:** J. Wei¹, W. Zhang¹, T. Liu¹, J. Lu^{*2} (1. Sinopec

Geophysical Corp.; 2. Sinopec (Non-Author)) (INT. AUD.: 3) Speaker: Jiaotong Lu
▶ Poster Station: H

BH P1 Borehole Geophysics for Carbon Storage

Session Chairs: Olga Podgornova and Kristoffer Walker

Location: Poster Station 3

Synopsis: All works explore the use of borehole data to characterize subsurface formations for geological carbon storage purposes.

10:20 AM.... **A method for evaluating CO₂-bearing gas reservoirs using well logging data:** Y. Deng, W. Tan, D. Hu, H. Zhang, X. Hu (Zhanjiang Branch of CNOOC Ltd.) (INT. AUD.: 5) Speaker: Yong Deng
▶ Poster Station: E

10:45 AM.... **Multi-dimensional far-field sonic imaging and borehole image integration for fracture characterization around and beyond the wellbore for a critical CCS Project:** O. Akinyose², N. M. Rubaie³, M. Saif⁴, E. Hasan¹, R. Kumar⁴, A. Donald¹ (1. SLB; 2. Saudi Aramco; 3. Saudi Aramco; 4. SLB) (INT. AUD.: 3) Speaker: Olusegun Akinyose
▶ Poster Station: F

11:10 AM **Monitoring a gas hydrate field with distributed temperature Sensing for long-term well integrity:** A. Garcia-Ceballos¹, G. Jin¹, T. Collett², S. Haines², S. Merey³ (1. Colorado School of Mines; 2. U.S. Geological Survey; 3. Batman University) (INT. AUD.: 3) Speaker: Ana Garcia-Ceballos
▶ Poster Station: G

11:35 AM **Calculating sensitivities for 3D inversion of electromagnetic well logging data:** C. R. Régis¹, P. R. Carvalho² (1. Federal University of Pará; 2. Universidade Federal Rural da Amazônia) (INT. AUD.: 3) Speaker: Cícero Régis
▶ Poster Station: H

CEMS P1 Characterization of Conventional Carbonate Reservoirs

Session Chairs: Mahmoud Alnazghah and Matt Wasson

Location: Poster Station 4

Synopsis: This session presents methods and results of studies that unravel complex carbonate reservoir architectures, diagenetic overprints and pore network properties.

10:20 AM.... **Research on facies-controlled inversion method of ultra-deep carbonate fracture-cavity reservoir based on multi-attribute constraints:** Y. Zeng¹, T. Du², P. Li³, X. Liu⁴ (1. China University of Petroleum (East China); 2. Kunlun Digital Technology Co., Ltd; 3. PetroChina Changqing Oilfield Company; 4. Beijing Furuibao Energy Technology Co.,Ltd.) (INT. AUD.: 3) Speaker: Yongjian Zeng
▶ Poster Station: E

10:45 AM.... **Advanced carbon isotope stratigraphy for unravelling reservoir architecture of the Cenomanian platform-to-basin carbonates, offshore Abu Dhabi, United Arab Emirates:** K. Yamamoto¹, H. Takayanagi², M. Aljneibi³, Z. Al Farhan³, T. Sato⁴, Y. Tsuji¹, Y. Iryu² (1. INPEX Corporation; 2. Tohoku University; 3. ADNOC Offshore; 4. Akita University) (INT. AUD.: 5)

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

- Speaker: Kazuyuki Yamamoto
► Poster Station: F
- 11:10 AM **Multiple episodes of dolomite recrystallization in the hydrothermal realm constrained by U–Pb dating: Jurassic carbonates, Saudi Arabia:** M. Alqattan¹, R. Goldstein² (1. Saudi Aramco; 2. University of Kansas) (INT. AUD.: 3) Speaker: Mohammed Alqattan
► Poster Station: G
- 11:35 AM **Quantitative analysis of porosity-permeability relations influenced by pore structure in carbonate rocks:** J. Guo, Y. Sun (Texas A&M University) (INT. AUD.: 2)
Speaker: Jingyi Guo
► Poster Station: H

C02 P4 Monitoring 2

Session Chairs: Phuong Hoang and Andrey Shabelansky

Location: Poster Station 3

Synopsis: This session will focus on carbon capture, storage modeling, planning and monitoring.

- 10:20 AM **Challenges for monitoring CO₂ sequestration using 4D seismic:** D. Lecerf¹, C. Reiser² (1. PGS; 2. PGS) (INT. AUD.: 4) Speaker: Didier Lecerf
► Poster Station: A
- 10:45 AM **Utilizing pseudo-3D seismic data to examine internal heterogeneity of stacked reservoirs for future CO₂ storage at Project ECO2S, Kemper County, Mississippi:** T. Drumm (Geological Survey of Alabama) (INT. AUD.: 3) Speaker: Timmon Drumm
► Poster Station: B
- 11:10 AM **From safety to sustainability: A comprehensive review of subsidence monitoring techniques for offshore oil and gas operations and CO₂ storage:** F. Thomas, F. Livio (Università degli Studi dell'Insubria) (INT. AUD.: 2)
Speaker: Frank Thomas
► Poster Station: C
- 11:35 AM **Estimating CO₂ saturation and porosity using the double difference approach based invertible neural network:** A. Dhara¹, M. Sen¹, S. Dasgupta² (1. The University of Texas at Austin; 2. University of Texas at Austin) (INT. AUD.: 3) Speaker: Arnab Dhara
► Poster Station: D

DAS P1 Case Study: Onshore

Session Chairs: Ivan Lim Chen Ning and Aleksei Titov

Location: Poster Station 5

Synopsis: Distributed acoustic sensing case studies: Insights into geothermal exploration, near-surface imaging, and hydraulic fracturing monitoring.

- 10:20 AM **Geothermal exploration at Kijimaya KJ-5 hot geothermal borehole in NE Japan using DTS and DAS:** J. Kasahara¹, Y. Hasada¹, M. Suzuki², T. Takahashi², H. Mikada³, H. Ohnuma¹, Y. Fujise⁴ (1. ENAA; 2. TOSEC; 3. Kyoto University; 4. WELMA Co.) (INT. AUD.: 3) Speaker: Junzo Kasahara
► Poster Station: E
- 10:45 AM **Near-surface imaging under extreme low temperature using distributed acoustic sensing:** P. Wu, C. Gu, Y. Zhong, B. Kang, X. Lu (Tsinghua

- University) (INT. AUD.: 3) Speaker: Peng Wu
► Poster Station: F
- 11:10 AM **DAS microseismic reflection imaging for hydraulic fracture and fault zone mapping:** Y. Ma¹, J. Ajo-Franklin¹, A. Nayak², X. Zhu³, J. Correa² (1. Rice University; 2. Lawrence Berkeley National Laboratory; 3. Rice University) (INT. AUD.: 3) Speaker: Yuanyuan Ma
► Poster Station: G
- 11:35 AM **Hydraulic fracture stage identification and size estimation using distributed strain and temperature sensing:** J. Saw¹, L. Luo², J. Correa², K. Soga¹, X. Zhu³, J. Ajo-Franklin³, E. Kerr⁴, R. Bohn⁴ (1. UC Berkeley; 2. Lawrence Berkeley National Laboratory; 3. Rice University; 4. SM Energy) (INT. AUD.: 3)
Speaker: Jaewon Saw
► Poster Station: H

FWI P4 Applications 2

Session Chairs: Junxiao Li and Soumya Roy

Location: Poster Station 5

Synopsis: New approaches to improve imaging, multi-parameter cross-talk and data driven noise issues.

- 10:20 AM **Source footprint elimination in full-waveform inversion by model extension: Application to elastic guided waves recorded by distributed acoustic sensing in unconventional reservoir:** M. Bader, R. G. Clapp, B. Biondi (Stanford University) (INT. AUD.: 4)
Speaker: Milad Bader
► Poster Station: A
- 10:45 AM **Influence of node position uncertainty on FWI and Mirror-RTM:** F. V. Capuzzo¹, M. Cetale¹, R. Moreira¹, S. L. da Silva², A. A. Karsou³, F. T. Costa⁴ (1. UFF; 2. GISIS; 3. Fluminense Federal University; 4. Fluminense Federal University) (INT. AUD.: 3) Speaker: Felipe Capuzzo
► Poster Station: B
- 11:10 AM **Multiparameter reflection waveform inversion based on Gauss-Newton optimization for acoustic VTI media:** S. Wu, T. Wang, J. Cheng (Tongji University) (INT. AUD.: 4)
Speaker: Sihai Wu
► Poster Station: C
- 11:35 AM **Imaging the pre-salt with elastic FWI using OBN data:** G. Brando Soares, B. Huard, L. Cypriano (CGG) (INT. AUD.: 2) Speaker: Gabriel Brando Soares
► Poster Station: D

INT P5 Seismic Facies Analysis: Inversion

Session Chairs: Huyen Bui and Fengming Ruan

Location: Poster Station 8

Synopsis: Recent advancements in facies inversion.

- 10:20 AM **Direct modeling of reservoir properties from seismic partial-angle stacks:** J. Pendrel, H. J. Schouten (GeoSoftware) (INT. AUD.: 3) Speaker: John Pendrel
► Poster Station: A
- 10:45 AM **Understanding the depositional model of the Spraberry Formation using facies inversion:** P. Bhatnagar¹, V. Anantharamu¹, R. Bianco² (1. Ikon Science; 2. Fasken Oil and Ranch) (INT. AUD.: 3) Speaker: Paritosh Bhatnagar
► Poster Station: B

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

- 11:10 AM **Insight into seismic facies characters and genesis of Neogene Guantao Formation upon Miaoxinan Uplift—A case of PL-20 structure in Bohai Sea:** Y. Ren, C. Li, Y. Chuai, Y. Huang, T. Zhang (China National Offshore Oil Corporation (CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Yunpeng Ren
▶ Poster Station: C
- 11:35 AM **Exploration potential assessment of the cretaceous play in Oudhreh Block using seismic attributes and seismic inversion study, Pelagian Basin, offshore Tunisia:** W. Boudegga¹, H. Latiri*² (1. ETAP; 2. ETAP (Non-Author)) (INT. AUD.: 4) Speaker: Hiba Latiri
▶ Poster Station: D

INT P6 Seismic Facies Analysis: Modeling

Session Chairs: Prashant Mishra and Yitao Pu

Location: Poster Station 8

Synopsis: *Recent advancements in facies modeling.*

- 10:20 AM.... **Geobody-oriented interpretable velocity fusion modeling in depth domain with seismic facies informed segmentation method:** M. Li, Q. Zeng, H. Shou, N. Qin, C. Wang, Z. Tongsheng (RIPED, PetroChina) (INT. AUD.: 3) Speaker: Meng Li
▶ Poster Station: E
- 10:45 AM.... **Data-centric, multiclass deep learning for seismic facies characterization: A case study from offshore New Zealand:** J. Chenin, S. Salamoff, P. Endresen (Bluware) (INT. AUD.: 3) Speaker: Julian Chenin
▶ Poster Station: F
- 11:10 AM **Formation mechanism and lithologic-trap description of the distal subaqueous fan of the 2nd Member of Shahejie Formation in the CFD a Structure, Shannan Depression, western Bohai Sea:** H. Hu, p. xu, H. Yu, H. Zhang, L. Tao (CNOOC (China) Ltd, Tianjin Branch) (INT. AUD.: 3) Speaker: He wei Hu
▶ Poster Station: G
- 11:35 AM **Necking of continental crust and its tectonic-sedimentary response in the Pearl River Mouth Basin, northern continental rifted margin of the South China Sea:** G. Cai (CNOOC China Ltd.) (INT. AUD.: 4) Speaker: Guofu Cai
▶ Poster Station: H

INTD P2 Data Integration in Exploration and Production

Session Chairs: Neda Bundalo and Yanhua Liu

Location: Poster Station 7

Synopsis: *Integration of multiple geoscientific data sets for challenging problems.*

- 10:20 AM.... **Multi-vendor integration on the energy Ecosystem Launchpad powers OSDU Data Platform adoption and energy industry transformation:** C. Rhodes¹, M. Bass² (1. AWS; 2. 47Lining, a Hitachi Vantara Company) (INT. AUD.: 3) Speaker: Christine Rhodes
▶ Poster Station: A
- 10:45 AM.... **Advantages of domain-wall encoded formulation of refraction residual statics estimation on a quantum annealer:** R. Ledoux¹, M. Dukalski*² (1. TU Delft; 2. Aramco Research Center Delft, Aramco Europe)

(INT. AUD.: 3) Speaker: Marcin Dukalski
▶ Poster Station: B

- 11:10 AM **Dual constrained reservoir modeling with geological factors and seismic attributes for exploration stage:** H. Luo¹, Y. Xing², C. Wang¹, Z. Zhang¹ (1. Exploration and Development Research Institute of Shengli Oilfield; 2. University of Tulsa) (INT. AUD.: 3) Speaker: Hongmei Luo
▶ Poster Station: C
- 11:35 AM **Optimal drainhole selection in tight gas fractured carbonate reservoirs: An integrated approach:** R. Narhari, M. Al-Ajmi, N. Al-Ajmi, A. Al-Sabari (Kuwait Oil Company) (INT. AUD.: 3) Speaker: Rao Narhari
▶ Poster Station: D

MLDA P4 Full-waveform Inversion and Velocity Model Building 2

Session Chairs: Stuart Farris and Han Liu

Location: Poster Station 9

Synopsis: *Use of neural networks to enhance velocity model building and full waveform inversion.*

- 10:20 AM.... **Unsupervised machine learning as a velocity picking assistant:** C. Ursenbach (TGS) (INT. AUD.: 3) Speaker: Charles Ursenbach
▶ Poster Station: E
- 10:45 AM.... **Generalization capability of data-driven deep learning models for seismic full-waveform inversion: An example using the OpenFWI dataset:** A. Abdullin¹, U. Waheed² (1. KFUPM; 2. King Fahd University of Petroleum and Minerals) (INT. AUD.: 3) Speaker: Ayrat Abdullin
▶ Poster Station: F
- 11:10 AM **OpenFWI 2.0: Benchmark datasets for elastic full-waveform inversion:** S. Feng¹, H. Wang¹, C. Deng¹, Y. Feng¹, M. Zhu¹, P. Jin¹, Y. Chen³, Y. Lin² (1. Los Alamos National Laboratory; 2. Los Alamos National Laboratory; 3. Microsoft) (INT. AUD.: 3) Speaker: Shihang Feng
▶ Poster Station: G
- 11:35 AM **Fast viscoacoustic forward modeling method based on U-net Fourier Neural Operator:** W. Tian¹, Y. Liu² (1. China University of Petroleum - Beijing; 2. China University of Petroleum - Beijing) (INT. AUD.: 4) Speaker: Wenbin Tian
▶ Poster Station: H

NEF P1 Geothermal and Hydrogen Resources

Session Chairs: Justin Birdwell and Denise Hills

Location: Poster Station 9

Synopsis: *This session includes presentations on a range of topics related to new resource extraction targets for the energy transition.*

- 10:20 AM.... **Well log analysis for natural hydrogen wildcat well Hoarty NE-3 using machine learning and rock physics:** Y. Mathur¹, V. Zgonnik², T. Mukerji³ (1. Stanford University; 2. Natural Hydrogen LLC; 3. Stanford University) (INT. AUD.: 3) Speaker: Yashee Mathur
▶ Poster Station: A
- 10:45 AM.... **Geothermal energy exploration in South Central Netherlands: Structural interpretation of 3D seismic attributes and petrophysical analysis:** S. Barrera¹, S. Verma², S. Bhattacharya³ (1. University of Texas -

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

Permian Basin; 2. UT Permian Basin; 3. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Sandra Barrera
▶ Poster Station: B

11:10 AM **Natural hydrogen resource prospectivity mapping in lower 48 states of the US:** G. Ellis (U.S. Geological Survey) (INT. AUD.: 2) Speaker: Geoffrey Ellis
▶ Poster Station: C

11:35 AM **Real-time monitoring of hydrogen leakage with sparse seismic data and machine learning:** K. Gao¹, N. Creasy¹, L. Huang², M. Gross² (1. Los Alamos National Laboratory; 2. Los Alamos National Laboratory) (INT. AUD.: 3) Speaker: Kai Gao
▶ Poster Station: D

NS P2 Climate, Coastal, and Environmental Geophysics

Session Chairs: Christine Downs and Cathy Truffert

Location: Poster Station 1

Synopsis: Near surface geophysics for applications relating to climate change, coastal and cryosphere geophysics.

10:20 AM **Methods for detecting ice wedges within permafrost:** P. Greer, S. D. Khan, E. Bering (University of Houston) (INT. AUD.: 3) Speaker: Presley Greer
▶ Poster Station: A

10:45 AM **Detection and location of glacial seismic events with distributed acoustic sensing:** C. Mosher¹, R. J. Ferguson², S. Sood³ (1. MoMacMo Limited; 2. University of Calgary; 3. MoMacMo Limited) (INT. AUD.: 3) Speaker: Charles Mosher
▶ Poster Station: B

11:10 AM **GPR surveys reveal the subsurface geology of major sea turtle nesting islands in the Saudi waters of the Arabian Gulf:** S. Hanafy¹, K. Ayranci¹, R. Maneja², A. Flandez², J. Gopalan², D. Cortes³ (1. KFUPM; 2. King Fahd University of Petroleum and Minerals; 3. Aramco) (INT. AUD.: 3) Speaker: Sherif Hanafy
▶ Poster Station: C

11:35 AM **WITHDRAWN**

RC P4 Methods and Case Studies 1

Session Chairs: Henry Campos and Cucha Lopez

Location: Poster Station 10

Synopsis: Case studies and methodological innovation applied to integrated reservoir characterization.

10:20 AM **An advanced geostatistical inversion workflow for creating a high-resolution static model of the Waraburgan formations using 3D simulated stochastic trends:** R. Rajagopal¹, A. Al-Otaibi¹, T. Chen¹, M. A. Jaseem¹, A. Mudavakkat¹, J. A. Khan¹, K. Krishna Gouravarapu¹, M. F. Al-Awadhi² (1. Kuwait Oil Company; 2. Kuwait Oil Company (Non-Author)) (INT. AUD.: 4) Speaker: Muneera Al-Awadhi
▶ Poster Station: A

10:45 AM **Exploring Fracture-Karst features and their impact on petrophysical properties in the Pre-salt carbonate sequence of the Barra Velha Formation, Santos Basin, Brazil:** C. D. Nworie¹, L. Mendes², G. F. Chinellato³, A. C. Vidal² (1. Colorado School of Mines; 2. Institute of Geosciences, State University of Campinas; 3.

Centre for Petroleum Studies, State University of Campinas) (INT. AUD.: 3) Speaker: Chibuzor Nworie
▶ Poster Station: B

11:10 AM **Exploratory prospects definition based on reservoir properties prediction derived from quantitative seismic interpretation (QSI):** Y. Perez¹, E. Morales¹, T. Manapov¹, J. Hernandez² (1. Petrolera; 2. Grupo Mar Nova) (INT. AUD.: 4) Speaker: Yaraixa Perez
▶ Poster Station: C

11:35 AM **Application of seismic multi-attribute analysis for carbonate buried hill reservoir characterization:** X. Liu, T. Xia, J. Cai, M. Gong (CNOOC China Limited, Tianjin Branch) (INT. AUD.: 5) Speaker: Xuetong Liu
▶ Poster Station: D

RP P2 Property Predictions

Session Chairs: Ritu Sarker and Jingjing Zong

Location: Poster Station 2

Synopsis: This session includes posters about applications of rock physics models to predict elastic properties.

10:20 AM **Estimation of shear wave velocity based on adaptive step size algorithm:** Y. Gu, J. Zhang (China University of Petroleum (East China)) (INT. AUD.: 4) Speaker: Yipeng Gu
▶ Poster Station: A

10:45 AM **Elastic parameters prediction using joint elastic-electrical modeling:** G. Wang, S. Chen (State Key Laboratory of Petroleum Resources and Prospecting, China University of Petroleum (Beijing)) (INT. AUD.: 4) Speaker: Guoquan Wang
▶ Poster Station: B

11:10 AM **Quantitative characterization of Irati shale through laboratory measurement and rock physical modeling:** J. Shi¹, R. Zhao¹, H. Yuan¹, X. Hu² (1. China University of Geosciences Beijing; 2. Microseismic Inc.) (INT. AUD.: 3) Speaker: Hemin Yuan
▶ Poster Station: C

11:35 AM **Monitoring pore-scale structures via nonlinear elastic wave-wave interactions:** A. Malcolm¹, K. Poduska¹, K. Joyce¹, J. Newman¹, S. Khajehpour Tadavani¹, L. Coates¹, A. Melnikov² (1. Memorial University of Newfoundland; 2. Nazarbayev University) (INT. AUD.: 1) Speaker: Alison Malcolm
▶ Poster Station: D

SILIC P1 Deepwater Sedimentary Systems 2

Session Chairs: Fahd Almalki and Neal Auchter

Location: Poster Station 10

Synopsis: Deepwater systems combine diverse processes to produce a range of fans, drifts, and other exotic environments, some of which are world-class arenas for energy resources.

10:20 AM **The relationship between accommodation-dominated and supply-dominated basin systems and reservoir scale architecture of turbidite fans: Insights from stratigraphic forward modeling:** S. S. Obafemi¹, A. Eckert¹, J. Obrist Farner¹, C. Griffiths² (1. Missouri University of Science and Technology; 2. StrataMod Pty

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

- Ltd) (INT. AUD.: 6) Speaker: Seyi Obafemi
▶ Poster Station: E
- 10:45 AM.... **Machine learning predictions of deep water slope facies using core-analogous outcrop interpretations, Tres Pasos Formation, Magallanes Basin, Chile:** P. Ronnau¹, L. Stright¹, S. Hubbard², B. Romans³ (1. Colorado State University; 2. University of Calgary; 3. Virginia Tech) (INT. AUD.: 3) Speaker: Patrick Ronnau
▶ Poster Station: F
- 11:10 AM **Quantifying topographic induced flow behavior of turbidity currents and resulting turbidite character: A 3-D laboratory study:** K. Reece¹, R. Dorrell², K. Straub¹ (1. Tulane University; 2. Hull University) (INT. AUD.: 4) Speaker: Kevin Reece
▶ Poster Station: G
- 11:35 AM **Large submarine fan system controlled by the narrow continental shelf-faulted continental slope in the northern South China Sea:** Q. Zhang¹, X. Zhang¹, H. Li¹, P. Song¹, Z. Jia¹, T. Zeng¹, w. Tao² (1. Shenzhen Branch of CNOOC Ltd.; 2. China National Offshore Oil Corporation Limited-Shenzhen) (INT. AUD.: 4) Speaker: Qinglin Zhang
▶ Poster Station: H

SP P5 Advanced Velocity Model Building Techniques 2

Session Chairs: Yang Liu and Jaime Ramos-Martinez

Location: Poster Station 6

Synopsis: Enhanced tomographic solutions for seismic velocity estimation and shallow imaging.

- 10:20 AM.... **First-arrival traveltimes tomography with structure-oriented smoothing:** Y. Wo², H. Zhou^{*3}, W. Cao¹, X. Huang⁴ (1. Southwest Petroleum University; 2. Southwest Petroleum University; 3. University of Houston; 4. Southwest Petroleum University) (INT. AUD.: 3) Speaker: Huawei Zhou
▶ Poster Station: A
- 10:45 AM.... **Joint inversion of first-break and early-arrival wave for near surface imaging:** Y. Pan, K. Zhang, Y. Xu, H. Wang (China University of Petroleum (East China)) (INT. AUD.: 2) Speaker: Yiming Pan
▶ Poster Station: B
- 11:10 AM **WITHDRAWN**
- 11:35 AM **Joint first-arrival traveltimes and double-difference traveltimes tomography based on eikonal solver and adjoint-state method: theory and application:** X. Zhou², X. Fei², P. Tong¹ (1. Nanyang technological university, School of Physical and Mathematical Sciences; 2. Nanyang Technological University, School of Civil and Environmental Engineering) (INT. AUD.: 3) Speaker: Xiaole Zhou
▶ Poster Station: D

SP P6 Machine Learning Applications for Seismic Processing

Session Chairs: Ao Cai and Adriano Gomes dos Santos

Location: Poster Station 6

Synopsis: Various applications of machine learning in seismic data processing and analysis, including event registration, interpolation, and velocity model building.

- 10:20 AM.... **Meta-processing: Meta-learning based initialization for enhancement multi-seismic processing with limited training data:** S. Cheng, T. Alkhalifah (King Abdullah University of Science and Technology) (INT. AUD.: 5) Speaker: Shijun Cheng
▶ Poster Station: E
- 10:45 AM.... **Seismic registration with a deep neural network constraint:** Y. Hu¹, S. Yu¹, Y. Guo^{*2} (1. Harbin Institute of Technology; 2. University of Alberta) (INT. AUD.: 3) Speaker: Yi Guo
▶ Poster Station: F
- 11:10 AM **Seismic data interpolation based on diffusion model deep learning:** S. Hou, C. Wang, Q. Zeng, D. Cui, Y. Yan, C. Zhang, Z. Zhang (China National Petroleum Corporation) (INT. AUD.: 3) Speaker: Sian Hou
▶ Poster Station: G
- 11:35 AM **Comparison between hybrid neural networks and decision trees machine learning architectures for velocity model building:** M. Muhammed (PETRONAS) (INT. AUD.: 3) Speaker: Mohammed Daniel Davis bin Muhammed
▶ Poster Station: H

STGM P3 Faults, Fractures, and Fluids 1

Session Chairs: David Lewis and Kevin Smart

Location: Poster Station 4

Synopsis: Studies focused on deformation processes and the potential effects of brittle deformation on fluid flow.

- 10:20 AM.... **Generalised stochastic fracture network flow based on 3D printed analogue models.:** T. Murray, A. Murray (SHSGEO) (INT. AUD.: 2) Speaker: Titus Murray
▶ Poster Station: A
- 10:45 AM.... **Particle based model for 2D sandbox / structural forward modelling using game engine:** E. P. Kusumah, P. S. Dumex (Universitas Pertamina) (INT. AUD.: 3) Speaker: Epo Kusumah
▶ Poster Station: B
- 11:10 AM **A method of low-grade fault identification through multilateral horizontal well:** W. Zhang¹, S. Wang¹, w. y. Hou¹, h. Shi¹, L. Gan² (1. CNOOC Ltd. Tianjin Branch; 2. CNOOC China Limited, Tianjin Branch) (INT. AUD.: 5) Speaker: Wenjun Zhang
▶ Poster Station: C
- 11:35 AM **Quantitative evaluation of restraining and releasing effect in bending strike-slip transfer zone:** T. Zhang, Y. Chuai, Y. Ren, J. Wang, G. Wang (China National Offshore Oil Corporation (CNOOC) Ltd Tian Jin Branch) (INT. AUD.: 3) Speaker: Tongjie Zhang
▶ Poster Station: D

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

UNCON P1 Basin and Play-scale Characterization 2

Session Chairs: Haitham Alhindi and Kevin Bohacs

Location: Poster Station 7

Synopsis: This session focuses on play-based and regional-scale characterization of unconventional shales and tight reservoirs.

10:20 AM.... **An integrated approach to basin-scale resource assessment of unconventional reservoirs:** T. P. McMahon, S. Bhattacharya, K. Smye, B. J. Casey, D. L. Carr, A. Calle, R. Eastwood, D. Hoffman, S. Ikonnikova, S. Moonesan, H. Rogers, R. Sabbagh, A. Saheli, K. Yut (University of Texas at Austin) (INT. AUD.: 1)

Speaker: Timothy McMahon

► Poster Station: E

10:45 AM.... **Mapping drilling intensity across the United States:** K. Yut¹, T. P. McMahon², K. Smye³ (1. University of Texas at Austin; 2. University of Texas at Austin; 3. Bureau of Economic Geology) (INT. AUD.: 4) Speaker: Katherine Yut

► Poster Station: F

11:10 AM **Basinwide subsurface stratigraphic architecture and wireline facies distribution of Leonardian strata, Midland Basin, West Texas:** D. L. Carr, W. A. Ambrose, H. S. Hamlin (University of Texas at Austin) (INT. AUD.: 3)

Speaker: David Carr

► Poster Station: G

11:35 AM **Integrated characterization and petroleum systems model of the oldest shale gas (oil) system in the world: Beetaloo Sub-Basin, Australia:** C. Delle Piane¹, M. Faiz¹, V. Crombez², D. Dewhurst^{*1} (1. CSIRO Energy; 2. CSIRO Mineral Resources) (INT. AUD.: 4)

Speaker: David Dewhurst

► Poster Station: H

AAS P5 New Technologies and Applications 1

Session Chairs: Jennifer Lewis and Dileep Tiwary

Location: Poster Station 1

Synopsis: This session will present some new technologies and applications.

1:20 PM..... **Estimation of ocean-water temperature and salinity from marine seismic data for weather-prediction and climate-modeling:** D. Chakraborty¹, J. Correa¹, M. M. Faria¹, E. Oladeji¹, S. Mallick² (1. University of Wyoming; 2. University of Wyoming) (INT. AUD.: 3)

Speaker: Dwaipayan Chakraborty

► Poster Station: A

1:45 PM..... **Simultaneous inversion of tight-sandstone reservoir fluid and brittleness index based on frequency-dependent AVO:** T. Lan, Z. Zong (China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Tianjun Lan

► Poster Station: B

2:10 PM..... **DeepDix: Enhancing interval velocity model estimation through adversarial regularization:** J. D. Stitt, R. G. Clapp, B. Biondi (Stanford University) (INT. AUD.: 3)

Speaker: Joseph Stitt

► Poster Station: C

2:35 PM..... **A frequency-dependent fluid prediction method based on a novel fluid indicator incorporating anisotropic effect and squirt flow:** T. Lan, Z. Zong (China University

of Petroleum (East China)) (INT. AUD.: 3)

Speaker: Tianjun Lan

► Poster Station: D

ACQ P4 Vibroseis Operation and Case Study

Session Chairs: Bjorn Olofsson and Shashin Sharan

Location: Poster Station 2

Synopsis: This session include several case studies using multiple types of seismic data, multi-component data and vibroseis data for exploration.

1:20 PM..... **A case study: Joint 3D surface seismic and VSP survey and its effect in complex structural areas of southwest China:** Y. Huang, X. Liang, L. Jiang, X. Li, C. Wang, J. Hu, C. Hu, G. Cheng, Z. Jin, L. Wang, S. Zhang, Q. Wang, J. Sun (Geophysical prospecting) (INT. AUD.: 4)

Speaker: Yuanyi Huang

► Poster Station: A

1:45 PM..... **3D3C Seismic exploration for tight sand reservoirs: Case study in western China:** S. Hu¹, Q. Wang¹, R. Zhao², W. Xie¹, M. Zhou¹, C. Ren², L. Jing¹, J. Luo¹ (1. BGP,CNPC; 2. Southwest Oil & Gasfield Company, PetroChina) (INT. AUD.: 3) Speaker: Shanzheng Hu

► Poster Station: B

2:10 PM..... **Task assignment and route optimization based on AI for high productivity vibrator acquisition:** H. Zhou (BGP) (INT. AUD.: 4) Speaker: Heng Zhou

► Poster Station: C

2:35 PM..... **A quick time-distance rule constraint simulation technique for efficient vibroseis acquisition: Method and application:** J. Bai (BGP) (INT. AUD.: 3) Speaker: Jie Bai

► Poster Station: D

BH P2 Machine Learning for Wellbore Applications

Session Chairs: Jesus Salazar and Vanessa Simoes

Location: Poster Station 3

Synopsis: The posters focus on data analysis techniques and numerical modeling applied to wellbore data.

1:20 PM..... **Predicting S-wave sonic logs using machine learning with conventional logs for the Delaware Basin, Texas:** J. Lee, Y. Chen, R. Dommissie, A. Savvaids, D. Huang (University of Texas at Austin) (INT. AUD.: 3)

Speaker: Jaewook Lee

► Poster Station: A

1:45 PM..... **Logging while drilling characterization of North Slope highly laminated Brookian Formation:** T. Akindipe², P. J. Perfetta², C. Shrivastava^{*1}, J. Seitz¹, V. T. Truong¹, A. Bhattacharya¹ (1. Schlumberger; 2. ConocoPhillips) (INT. AUD.: 3) Speaker: Chandramani Shrivastava

► Poster Station: B

2:10 PM..... **Well log depth shifting automation with two different approaches:** C. Xu¹, L. Fu², T. Lin², W. Li², Y. Alzayer³, Z. Alibrahim³ (1. Aramco Americas; 2. Aramco Americas; 3. Saudi Aramco) (INT. AUD.: 3) Speaker: Chicheng Xu

► Poster Station: C

2:35 PM..... **Scalable AutoML for rock typing, well log and core data estimation via active transfer learning:** A. Shahin¹, M. Myers² (1. Advanced Micro Devices (AMD); 2. University

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

of Houston) (INT. AUD.: 3) Speaker: Alireza Shahin
► Poster Station: D

CEMS P2 Faults, Fractures, and Karst in Carbonate Reservoirs

Session Chairs: Rob Forkner and Ted Playton

Location: Poster Station 4

Synopsis: *This session discusses the importance of faults, fractures, and karst in carbonate reservoirs as diagenetic pathways, reservoir flow conduits, and controls on reservoir heterogeneity.*

1:20 PM..... **Fluid evolution in strike-slip fault zones of lower Paleozoic tight carbonate reservoir in NW Tarim Basin, China:** Y. Yao, L. Zeng (China University of Petroleum (Beijing)) (INT. AUD.: 3) Speaker: Yingtao Yao
► Poster Station: A

1:45 PM..... **Tectonic evolution and large-scale karstification of the Zhanazhol-Takyr platform in the eastern Precaspian Basin, Kazakhstan:** Y. Zhang¹, X. Wang¹, Y. Li², J. Hou², X. Zeng², W. Zhen², Z. Ji² (1. PetroChina Research Institute of Petroleum Exploration & Development; 2. PetroChina) (INT. AUD.: 4) Speaker: Yiqiong Zhang
► Poster Station: B

2:10 PM..... **Fracture characteristics and its controlling factors in the Lower Cretaceous lacustrine carbonate reservoir, Santos Basin, Brazil:** Y. Zhu, Z. Zhang, Y. Hu, J. Su, M. Li (Petroleum Exploration and Production Research Institute, Sinopec) (INT. AUD.: 3) Speaker: Yixuan Zhu
► Poster Station: C

2:35 PM..... **WITHDRAWN**

DAS P2 Machine Learning Applications 1

Session Chairs: Lei Fu and Yong Ma

Location: Poster Station 5

Synopsis: *Leveraging machine learning for noise reduction and compression in distributed acoustic sensing applications.*

1:20 PM..... **WITHDRAWN**

1:45 PM..... **WITHDRAWN**

2:10 PM..... **Physics-aware compression for distributed acoustic sensing data with machine learning:** T. Lin¹, W. Li¹, L. Fu¹, M. Khalaf² (1. Aramco Americas: Aramco Research Center – Houston; 2. EXPEC ARC, Saudi Aramco) (INT. AUD.: 3) Speaker: Tao Lin
► Poster Station: C

2:35 PM..... **Revolutionizing seismic data compression: Unlocking the power of stable diffusion neural networks:** A. Abdullin, U. Waheed, N. Iqbal (King Fahd University of Petroleum and Minerals) (INT. AUD.: 2) Speaker: Ayrat Abdullin
► Poster Station: D

INT P7 Inversion Methods

Session Chairs: Haibin Di and Gabriel Gil

Location: Poster Station 8

Synopsis: *New workflows and algorithms for seismic inversion.*

1:20 PM..... **Estimating effective stress in shale reservoirs using pre- and post-stacked azimuthal seismic data:** R. Yang¹, H. Chen¹, G. Zhang² (1. Tongji University; 2. China University of Petroleum (East China)) (INT. AUD.: 4)

Speaker: Rui Yang

► Poster Station: A

1:45 PM..... **Waveform constrained simultaneous pre-stack inversion and application to Paleogene reservoir prediction:** Z. Zhang, J. Gao, C. Liu, X. Lu (Cnooc China Limited Tianjin) (INT. AUD.: 3) Speaker: Zhongqiao Zhang
► Poster Station: B

2:10 PM..... **Fine description of composite channel sand bodies based on multi-seismic attribute CMY fusion technology:** Z. Zhang, J. Wang, H. Tang, X. Liu (CNOOC Ltd Tian Jin Branch) (INT. AUD.: 5) Speaker: Zhenglong Zhang
► Poster Station: C

2:35 PM..... **An integrated velocity modelling method for static reservoir models and its application in M oilfield, the Middle East:** C. Yang¹, X. Chen¹, D. Xiao², Q. Li¹, K. Zhou¹, Y. Wang¹, J. Yu¹ (1. BGP, CNPC; 2. BGP.CNPC) (INT. AUD.: 3) Speaker: Chen Yang
► Poster Station: D

MLDA P5 Seismic Interpretation 2

Session Chairs: Son Phan and Hayden Powers

Location: Poster Station 9

Synopsis: *Advancements in machine learning based seismic horizon interpretation and geobody detection.*

1:20 PM..... **Probabilistic tools for deep-learning horizon tracking:** R. Guo, H. Lin, C. Tao, L. Li, Y. Gao, R. Wen (BGP, CNPC) (INT. AUD.: 3) Speaker: Rui Guo
► Poster Station: A

1:45 PM..... **Seismic horizon picking with sparse labeled data:** S. Asghar, J. Byun (Hanyang University (RISE.ML)) (INT. AUD.: 3) Speaker: Saleem Asghar
► Poster Station: B

2:10 PM..... **Optimization of relative geological time derived from flow field – a label-free approach:** Z. Li (Schlumberger) (INT. AUD.: 3) Speaker: Zhun Li
► Poster Station: C

2:35 PM..... **Implementation of denosing diffusion probability model for seismic interpretation:** F. Jiang, K. Osypov (Halliburton) (INT. AUD.: 3) Speaker: Fan Jiang
► Poster Station: D

SILIC P2 Reservoir Characterization of Siliciclastic Systems 1

Session Chairs: Jessica Matthews and Nana Xu

Location: Poster Station 10

Synopsis: *Characterization of reservoirs at grain-to-grain scale to the utilization of outcrop analogs to inform about the subsurface, with focus on petrographic and sedimentologic controls and application of technology.*

1:20 PM..... **Carbonate cementation, origin, and its relationship to siliciclastic reservoir stratigraphy: Hibernia Formation, Jeanne d'Arc basin, Canada:** M. Acuna-Urbe³, D. G. Lowe¹, K. Azmy² (1. Assistant Professor; 2. Professor; 3. Graduate student) (INT. AUD.: 3) Speaker: Mateo Acuna-Urbe
► Poster Station: A

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

1:45 PM..... **Unraveling the “Eaglebine”: A Case Study in Sequence Stratigraphy vs. Lithostratigraphy:** P. Johnson¹, A. D. Donovan², M. Pope², S. Gifford², M. Meyer¹ (1. Student; 2. Texas A&M University) (INT. AUD.: 3)
Speaker: Parker Johnson

► Poster Station: B

2:10 PM..... **Changes in sediment input and eustatic sea-level as key controls of sediment architecture:** N. A. Michael, R. Zuhlke (Saudi Aramco) (INT. AUD.: 3)
Speaker: Nikolaos Michael

► Poster Station: C

2:35 PM..... **WITHDRAWN**

SP P7 Least-squares Migration and Q-migration

Session Chairs: Fuchun Gao and Xin Wang

Location: Poster Station 6

Synopsis: Advancements in RTM imaging, including Q-compensation and least-squares inversion.

1:20 PM..... **Q tomography workflow: A land case study in the Eagle Ford Play:** I. Sharabi, M. Shustak, O. Kletenik-Edelman, R. Levy, Z. Koren (SSE Aspentech) (INT. AUD.: 3)

Speaker: Itai Sharabi

► Poster Station: A

1:45 PM..... **Angle-constrained VSP least-squares reverse time migration based on a high-efficiency stabilized Poynting vector:** X. Ke¹, M. D. Sacchi^{1,2}, Y. Shi¹ (1. Northeast Petroleum University; 2. University of Alberta) (INT. AUD.: 3) Speaker: Mauricio Sacchi

► Poster Station: B

2:10 PM..... **Improve Kirchhoff depth imaging using full wave equation travel time:** Y. Wang¹, Y. He¹, A. Yeh¹, F. Liu², B. Wang³, C. Calderon¹ (1. TGS; 2. TGS; 3. TGS) (INT. AUD.: 3) Speaker: Yongzhong Wang

► Poster Station: C

2:35 PM..... **Stable Q-compensated reverse time migration based on a new fractional Laplacian viscoacoustic wave equation:** X. Mu, J. Huang (China university of petroleum (east china)) (INT. AUD.: 4) Speaker: Xinru Mu

► Poster Station: D

UNCON P2 Shale and Tight Reservoir Characterization 2

Session Chairs: Ahmed Al-Dawood and Moones Alamooti

Location: Poster Station 7

Synopsis: This session focuses on integrated characterization of shales and tight sand reservoirs for development purposes.

1:20 PM..... **WITHDRAWN**

1:45 PM..... **Integrated 3D geocellular model of the Wolfcamp-Bone Spring interval in the Delaware Basin, United States: Challenges, expectations, and utilization for regional evaluations:** D. Hoffman¹, S. Bhattacharya¹, D. L. Carr¹, B. J. Casey⁴, R. Eastwood¹, E. A. Horne², K. Smye³ (1. University of Texas at Austin; 2. University of Texas at Austin; 3. Bureau of Economic Geology; 4. University of Texas at Austin) (INT. AUD.: 3) Speaker: David Hoffman

► Poster Station: B

2:10 PM..... **WITHDRAWN**

2:35 PM..... **Natural fractures and their influence on shale oil accumulation in Mahu Sag, Junggar Basin, Northwestern China:** X. Du¹, Z. Jin¹, L. Zeng¹, G. Liu¹, G. Lu², S. Yang³ (1. Peking University; 2. China University of Petroleum (Beijing); 3. Xinjiang Oilfield Company) (INT. AUD.: 3) Speaker: Xiaoyu Du

► Poster Station: D

AAS P6 New Technologies and Applications 2

Session Chairs: Amit Padhi and Luis Vernengo

Location: Poster Station 1

Synopsis: This session will present some new technologies and applications.

3:40 PM..... **Geostatistical inversion method based on seismic waveform similarity:** X. Ni¹, J. Zhang¹, G. Zhang¹, Z. Liu¹, Y. Lin² (1. China University of Petroleum (East China); 2. China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Ying Lin

► Poster Station: E

4:05 PM..... **SV/SH or S1/S2 separation for 3D6C data with direct S-wave vibrator exciting once:** Y. Yue, Z. Deng (BGP, CNPC) (INT. AUD.: 4) Speaker: Yuan Yuan Yue

► Poster Station: F

4:30 PM..... **Spatially varying Chi volumes: A study in offshore Australia on background trend calculation from the Shuey two-term approximation:** H. Powers¹, N. Vento² (1. ExxonMobil; 2. ExxonMobil) (INT. AUD.: 3) Speaker: Hayden Powers

► Poster Station: G

4:55 PM..... **Multichannel seismic deconvolution via 2D K-SVD and convolutional sparse coding:** G. Zhang, X. Gao, B. Zou, Y. Wang (University of Electronic Science and Technology of China) (INT. AUD.: 3) Speaker: Guiqian Zhang

► Poster Station: H

CEMS P3 Advances in Permian Basin Understanding 2

Session Chairs: Sam Hiebert and Didi Ooi

Location: Poster Station 4

Synopsis: This session highlights recent studies that add to the knowledge base and interpretation of this classic mixed carbonate-siliciclastic depositional basin.

3:40 PM..... **Lithology distribution and geomorphological evolution of mixed carbonate-siliciclastic sequences of the Cisco Group of the eastern Shelf of the Permian Basin:** S. Karakaya¹, C. Kerans², C. Olariu³, O. Ogiesoba⁴ (1. The University of Texas at Austin; 2. UT Austin-BEG; 3. The University of Texas at Austin; 4. Bureau of Economic Geology, The University of Texas at Austin, Austin Texas.) (INT. AUD.: 4) Speaker: Sarp Karakaya

► Poster Station: E

4:05 PM..... **Margin to slope architectural evolution of the Pennsylvanian-Permian succession in the eastern Midland Basin: Application of zoneless static earth modeling to reservoir characterization:** A. Eljalafi, A. Bonilla-Rodriguez, W. Walker, R. Holman (Ovintiv) (INT. AUD.: 3) Speaker: Abdulah Eljalafi

► Poster Station: F

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

4:30 PM..... **Depositional and geomorphological evolution of the channel system in the mixed carbonate-siliciclastic San Andres and Grayburg interval through seismic multi-attribute analysis and seismic-constrained facies modeling, Permian Basin, Texas:** L. Ortiz Sanguino¹, H. Bedle¹, M. J. Pranter², S. Verma³ (1. University of Oklahoma; 2. University of Oklahoma; 3. UT Permian Basin) (INT. AUD.: 2) Speaker: Laura Ortiz Sanguino
► Poster Station: G

4:55 PM..... **Facies and stratigraphic controls on fracture formation in muddy vs. grainy slope deposits, Guadalupe Mountains, west Texas:** R. A. Williams¹, M. Ibagarov¹, Z. Jobe¹, P. Plink-Bjorklund¹, L. J. Wood¹, T. Playton², E. Earnest² (1. Colorado School of Mines; 2. Chevron) (INT. AUD.: 4) Speaker: Rachel Williams
► Poster Station: H

DAS P3 Machine Learning Applications 2

Session Chairs: Weichang Li and Yanrui Ning

Location: Poster Station 5

Synopsis: Leveraging machine learning for microseismic and hydraulic fracture monitoring in distributed acoustic sensing applications.

3:40 PM..... **Joint denoising and classification network for DAS microseismic event detection:** S. Wu, Y. Wang (Key Laboratory of Petroleum Resource Research, Institute of Geology and Geophysics, Chinese Academy of Sciences; Innovation Academy for Earth Science, Chinese Academy of Sciences) (INT. AUD.: 3)
Speaker: Shaojiang Wu
► Poster Station: E

4:05 PM..... **Deep learning-based phase picking of P and S waves for DAS microseismic data:** Y. Choi, Y. Song, S. Seol, J. Byun (Hanyang University) (INT. AUD.: 3)
Speaker: Yonggyu Choi
► Poster Station: F

4:30 PM..... **Automatic microseismic event detection for enhanced geothermal through transfer learning of convolutional neural networks:** P. Given¹, F. Huot³, R. G. Clapp¹, T. Nemeth², K. Nihei², B. Biondi¹ (1. Stanford University; 2. Chevron Technical Center, a division of Chevron U.S.A. Inc.; 3. Stealth Mode Startup Company) (INT. AUD.: 3)
Speaker: Paige Given
► Poster Station: G

4:55 PM..... **A GAN-augmented deep-learning framework for automated fracture location with fiber-optic data:** Y. Jin¹, H. Lu², W. Li¹ (1. Aramco Houston Research Center; 2. University of Houston) (INT. AUD.: 3) Speaker: Yuchen Jin
► Poster Station: H

ENEC P1 Best Practices in Exploration Discoveries 2

Session Chairs: Pablo Eisner and Emerson Marfisi

Location: Poster Station 3

Synopsis: Exploring new concepts and challenges in emerging exploration practices, including examples from Chile and China, and methods for identifying hydrocarbon potential.

3:40 PM..... **Contrasting styles of stratigraphic pinch-outs in shelf edge to upper slope settings: examples from an exhumed basin margin succession (Magallanes Basin, Chile):** T. G. Peploe¹, S. Hubbard¹, M. Poyatos-Moré², S. A. Kaempfe-Droguett³, M. Puckett⁴, D. Bell⁵, R. G. Englert⁶, B. Romans⁴ (1. University of Calgary; 2. Universitat Autònoma de Barcelona; 3. Chile Slope Systems; 4. Virginia Tech; 5. University of Calgary; 6. University of Calgary) (INT. AUD.: 4)
Speaker: Thomas Peploe
► Poster Station: E

4:05 PM..... **Development characteristics and reservoir control mechanism of source sink system in continental rift lake basin –Taking Huizhou Sag, the Pearl River Mouth Basin as an Example:** S. Niu, G. Peng, J. Cai, X. Gao, J. Liang (Shenzhen branch, CNOOC) (INT. AUD.: 3)
Speaker: Shengli Niu
► Poster Station: F

4:30 PM..... **Recovery of deep water high pressure buried hill accumulation process and exploration breakthrough:** Y. Li (China National Off shore Oil Limited Corporation–Hainan) (INT. AUD.: 4) Speaker: You Li
► Poster Station: G

4:55 PM..... **A method for identifying the hydrocarbon potential of Neogene traps by using triangular chart and its application in the complex fault zones of Huanghekou sag in the Bohai Sea:** H. Wen¹, R. Zhang¹, Z. Huang¹, Q. Wu¹, Y. Guo², J. Wang³ (1. Bohai Oilfield Research Institute, Tianjin Branch of CNOOC Ltd.; 2. China National Offshore Oil Corporation (CNOOC) Limited Tianjin; 3. CNOOC China Limited, Tianjin Branch) (INT. AUD.: 5) Speaker: Honglei Wen
► Poster Station: H

INT P8 Interpretation Methods

Session Chairs: David Tett and Guangchi Xing

Location: Poster Station 8

Synopsis: New workflows and algorithms for geological interpretation.

3:40 PM..... **Fault-preserving automatic integration of subsurface structural maps and well dips using structure-guided interpolation:** Y. Ma¹, L. Liu¹, N. AlBinHassan² (1. Aramco Beijing Research Center; 2. Saudi Aramco) (INT. AUD.: 4)
Speaker: Yue Ma
► Poster Station: E

4:05 PM..... **WITHDRAWN**

4:30 PM..... **A new method of anomalous stacked velocity characterization based on envelope reconstruction and its application:** Z. Zuo, C. Li, Y. Chuai, Y. Ren, J. Wang (China National Offshore Oil Corporation (CNOOC) Ltd

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Wednesday, 30 August

Tianjin Branch) (INT. AUD.: 3) Speaker: Zhonghang Zuo
► Poster Station: G

4:55 PM..... **An orchestrated machine learning workflow to predict reservoir facies in turbidites:** J. Qi, C. Laudon (Geophysical Insights) (INT. AUD.: 3) Speaker: Jie Qi
► Poster Station: H

IPS P1 Detection Methods

Session Chairs: Yingping Li and Ying Zhang

Location: Poster Station 2

Synopsis: Advanced seismic event detection methods in geothermal, salt dome, and hydraulic fracturing settings.

3:40 PM..... **A dense linear array for passive seismic imaging of geothermal structural features: The FOAL experiment at Utah FORGE:** J. Kim¹, J. Ajo-Franklin¹, T. Shadoan¹, V. Sobolevskaya¹, J. Correa², B. Freifeld³ (1. Rice University; 2. Lawrence Berkeley National Laboratory; 3. Class VI Solutions) (INT. AUD.: 2) Speaker: Jaewoo Kim
► Poster Station: E

4:05 PM..... **Seismic event detection based on clustering of trimmed spectrograms:** S. Grubas¹, M. Van der Baan¹, R. Dokht² (1. University of Alberta; 2. Geological Survey of Canada) (INT. AUD.: 3) Speaker: Mirko Van der Baan
► Poster Station: F

4:30 PM..... **Evaluating the performance of machine learning models in detecting salt dome earthquakes:** J. Omojola¹, P. Persaud² (1. Louisiana State University; 2. University of Arizona) (INT. AUD.: 1) Speaker: Joses Omojola
► Poster Station: G

4:55 PM..... **Advanced borehole microseismic data analysis for hydraulic fracture mapping:** H. Alqatari¹, D. Colombo², E. Turkoglu¹, Y. Altowairqi³, D. Rovetta⁴ (1. Saudi Aramco; 2. Saudi Aramco; 3. Saudi Aramco; 4. Aramco Overseas Company BV) (INT. AUD.: 3) Speaker: Hala Alqatari
► Poster Station: H

MLDA P6 Seismic Processing and Imaging 2

Session Chairs: Kun Guo and Yanhua Liu

Location: Poster Station 9

Synopsis: Enhanced seismic processing and signal enhancement with machine learning methods.

3:40 PM..... **Noise attack algorithm: Detecting noise portfolio in seismic data using adversarial attacks:** S. Alsinan¹, M. Makarenko², S. Liu³, I. Hoteit², A. Dawood¹ (1. Saudi Aramco; 2. King Abdullah University of Science and Technology; 3. KAUST) (INT. AUD.: 3) Speaker: Salma Alsinan
► Poster Station: E

4:05 PM..... **Symmetric autoencoders for seismic imaging using vehicle sources:** S. N. Bajad, P. Bharadwaj (Indian Institute of Science, Bengaluru) (INT. AUD.: 3) Speaker: Sanket Bajad
► Poster Station: F

4:30 PM..... **Deep learning with SymAE to correct for deepwater statics:** B. Kanniah¹, L. Demanet², P. Bharadwaj³ (1. Massachusetts Institute of Technology; 2. Professor of Applied Mathematics; 3. Indian Institute of Science)

(INT. AUD.: 3) Speaker: Brindha Kanniah
► Poster Station: G

4:55 PM..... **Seismic data compression by variational autoencoder with hyperprior:** S. Wang¹, W. Hu³, A. Abubakar³, X. Wu², J. Chen¹ (1. University of Houston; 2. University of Houston; 3. SLB) (INT. AUD.: 3) Speaker: Shirui Wang
► Poster Station: H

SILIC P3 Shallow Marine Sedimentary Systems 1

Session Chairs: Rebecca Caldwell and Saju Menacherry

Location: Poster Station 10

Synopsis: Shallow marine sedimentary processes and their deposits from conventional and unconventional standpoints. Advances in knowledge, facies models and forward stratigraphic modelling.

3:40 PM..... **Facies characteristics of wave-dominated compound clinofolds in a high accommodation setting, Mayaro Formation, Trinidad:** A. Osman¹, R. Steel², V. Rossi³, C. Olariu² (1. The University of the West Indies; 2. The University of Texas at Austin; 3. National Research Council of Italy,) (INT. AUD.: 3) Speaker: Ariana Osman
► Poster Station: E

4:05 PM..... **High-resolution stratigraphy of Lower Wilcox Guadalupe C Delta: Implications for CO₂ sequestration:** M. I. Olariu¹, L. G. Moscardelli², M. A. Lorente⁴, A. Hessler³, V. Smith⁴, X. Liu⁴ (1. UT Austin; 2. Bureau of Economic Geology; 3. The Deep Time Institute; 4. Ellington Geological Services) (INT. AUD.: 3) Speaker: Mariana Olariu
► Poster Station: F

4:30 PM..... **Three-dimensional anatomy of the ancient Pearl River Delta: Sequence stratigraphy, depositional facies, and sandbodies:** G. Peng¹, z. Li², I. ding³, X. Li² (1. China National Offshore Oil Corporation Limited-Shenzhen; 2. China National Offshore Oil Corporation Limited-Shenzhen; 3. CNOOC) (INT. AUD.: 3) Speaker: Guangrong Peng
► Poster Station: G

4:55 PM..... **Three-dimensional geometry, stratigraphic significance, and sedimentology of growth faults in ancient deltas:** E. Morris¹, C. Johnson¹, C. E. Atlas², A. Wroblewski¹ (1. University of Utah; 2. Chevron) (INT. AUD.: 3) Speaker: Emma Morris
► Poster Station: H

SP P8 Elastic, Diffraction, and Marchenko Imaging

Session Chairs: Odette Aragao and Lei Fu

Location: Poster Station 6

Synopsis: Advanced imaging solutions, including elastic and poroelastic RTM, diffraction and Marchenko imaging.

3:40 PM..... **A novel vector PP imaging condition for elastic reverse time migration:** B. Han¹, W. Mao², X. Xie³ (1. Research Center for Computational and Exploration Geophysics, CAS-APM; 2. Research Center for Computational and Exploration Geophysics, CAS-APM; 3. Institute of Geophysics and Planetary Physics, University of California at Santa Cruz) (INT. AUD.: 3) Speaker: Bingkai Han
► Poster Station: E

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Wednesday, 30 August

4:05 PM..... **Poroelastic reverse time migration using decoupled fast and slow P waves:** Y. Tian, J. Yang, J. Huang, Z. Li (China University of Petroleum (East China)) (INT. AUD.: 3) Speaker: Yiwei Tian
▶ Poster Station: F

4:30 PM..... **Marchenko imaging from rugged topography in mountainous areas:** X. Chen¹, Y. Hu¹, H. Peng², X. Huang³, X. Liu², K. Li⁴ (1. Southwest petroleum university; 2. PetroChina; 3. Southwest petroleum university; 4. Southwest Petroleum University) (INT. AUD.: 3) Speaker: Xiaochun Chen
▶ Poster Station: G

4:55 PM..... **Imaging the horizontal components of OBN data:** S. Omar, J. Simmons (Colorado School of Mines) (INT. AUD.: 2) Speaker: Samara Omar
▶ Poster Station: H

UNCON P3 Applied Geosciences for Shale and Tight Reservoirs 2

Session Chairs: Bager Albensaad and Khawaja Hasnain Iltaf

Location: Poster Station 7

Synopsis: *This session focuses on applied studies in geosciences for unconventional.*

3:40 PM..... **How well do you know your Midland Basin: Expanded mapping and 3D modeling of the Midland Basin, Southeast New Mexico and West Texas:** B. J. Casey¹, D.

Hoffman¹, D. L. Carr¹, S. Bhattacharya¹, E. A. Horne² (1. University of Texas at Austin; 2. University of Texas at Austin) (INT. AUD.: 4) Speaker: Brian Casey
▶ Poster Station: E

4:05 PM..... **Discrete fracture network modeling of natural fractures in the Wolfcamp Formation in the HFTS-1, Midland Basin using core, image log, and 3D seismic:** G. Wang¹, S. Bhattacharya² (1. Saint Francis University; 2. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Guochang Wang
▶ Poster Station: F

4:30 PM..... **Geochemistry of oils and condensates from the lower Eagle Ford Formation, south Texas—Applications of Diamondoids:** X. Sun¹, C. Waters², T. Zhang² (1. university of Texas at Austin; 2. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Xun Sun
▶ Poster Station: G

4:55 PM..... **Application of integrated visual observations on characterization of Caney Shale at micro-nano scales:** F. Xiong¹, Y. Wang¹, J. Puckette¹, G. Rother², M. Grammer¹, G. A. Awejori¹, A. Katende¹, L. Whitworth¹, B. Johnson¹, C. Massion¹, M. Radonjic¹ (1. Oklahoma State University; 2. Oak Ridge National Laboratory) (INT. AUD.: 3) Speaker: Fengyang Xiong
▶ Poster Station: H



Your GEO Connection

Exploration ←
Discovery ←
Mastery ←
Shared Experiences ←



aapg.org



Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

CEMS P4 Technologies and Methods in Carbonate Reservoir Characterization 2

Session Chairs: Jerome Bellian and Abdulah Eljalafi

Location: Poster Station 4

Synopsis: This session showcases forward modeling approaches to better understand carbonate reservoir facies patterns, source rocks, stratal architecture, and heterogeneity.

10:20 AM.... **Applying forward stratigraphic modeling to enhance understanding of depositional evolution of ancient carbonate platforms and improve geostatistical models: A case study in southwestern China:** Y. Huang, T. Duan, Y. Liu (Sinopec Petroleum Exploration and Production Research Institute) (INT. AUD.: 3)
Speaker: Yuan Huang
► Poster Station: E

10:45 AM.... **3D stratigraphic forward modeling of mixed carbonate-siliciclastic systems in greenhouse and icehouse worlds: Are they significantly different?:** B. F. Irwanto¹, A. Herlambang², A. Koeshidayatullah¹ (1. King Fahd University of Petroleum and Minerals; 2. Center for Integrative Petroleum Research, College of Petroleum Engineering and Geosciences, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.) (INT. AUD.: 4) Speaker: Baharudin Irwanto
► Poster Station: F

11:10 AM **Marine organic productivity and carbonate source rock creation in the Late Jurassic Arabian intrashelf basin: transgressive or lowstand origin? A hydrodynamic modeling perspective:** A. N. Wicaksono¹, G. Gairola¹, P. Zhan², D. Guo³, I. Hoteit³, V. Vahrenkamp¹ (1. King Abdullah University of Science and Technology (KAUST); 2. Southern University of Science and Technology; 3. King Abdullah University of Science and Technology (KAUST)) (INT. AUD.: 3) Speaker: Akbar Wicaksono
► Poster Station: G

11:35 AM **Comparative studies of micropaleontology and diagenesis of the rocks of early late early Ordovician El Paso Group, Southern Hueco Mountains, Hudspeth County Texas and surrounding areas:** I. Aluka (PVAMU) (INT. AUD.: 3) Speaker: Innocent Aluka
► Poster Station: H

EMP P1 EM Methods 3

Session Chairs: Lin Liang and Zhengwei Xu

Location: Poster Station 5

Synopsis: Recent advance and application of EM.

10:20 AM.... **Macro-scale relaxation investigations with frequency- and time-domain electromagnetic induction:** D. R. Glaser¹, B. E. Barrowes¹, F. Shubitidze², L. Slater³ (1. US Army ERDC Cold Regions Research & Engineering Laboratory; 2. Dartmouth College; 3. Rutgers University Newark) (INT. AUD.: 3) Speaker: Dan Glaser
► Poster Station: E

10:45 AM.... **SQUID TEM method for geothermal resource exploration: A case study in Southern Sumatra, Indonesia:** M. Zhdanov¹, A. Gribenko², L. Cox³, K. Tanabe⁴, T. Hato⁴, A. Tsukamoto⁴ (1. University of Utah; 2. TechnoImaging; 3. TechnoImaging; 4. SUSTEC

(INT. AUD.: 3) Speaker: Michael Zhdanov
► Poster Station: F

11:10 AM **Broadband magnetotelluric study of the axial fault region of the New Madrid Seismic Zone:** K. Sarker, C. Cramer, C. Langston, R. Bhattarai, A. Mahanama (The University of Memphis) (INT. AUD.: 4)
Speaker: Kaushik Sarker
► Poster Station: G

11:35 AM.... **The Earth's radial conductivity model derived from the latest CSES and Swarm Satellite data:** M. Lai, X. Ren*, C. Yin, Y. Liu, B. Zhang, Y. Su (College of Geoexploration Science and Technology, Jilin University) (INT. AUD.: 3)
Speaker: Xiuyan Ren
► Poster Station: H

ENEC P2 New Trends and Emerging Exploration Concepts 2

Session Chairs: Manoj Vallikkat Thachaparambil and Shengyu Wu

Location: Poster Station 3

Synopsis: Exploring new concepts, challenges, and opportunities in natural gas accumulation, AI-aided seismic interpretation, basin revitalization, and sedimentary filling processes in passive margins.

10:20 AM.... **Enrichment mechanism and exploration practice of Neogene fluvial facies lithologic reservoirs in Bohong sag, Bohai Bay Basin:** Q. Liu¹, H. Yang¹, p. xu¹, D. Wang¹, H. Cui² (1. CNOOC; 2. CNOOC) (INT. AUD.: 4)
Speaker: Qingshun Liu
► Poster Station: A

10:45 AM.... **Using artificial intelligence aided seismic interpretation to identify prospective locales in a structurally complex Thrust Fold Belt, India:** A. K. Patel¹, D. Kumar¹, S. Rawat², M. P. GOGO³, G. Kotekal³ (1. Oil And Natural Gas Corporation Limited; 2. Oil And Natural Gas Corporation Limited; 3. Oil And Natural Gas Corporation Limited) (INT. AUD.: 3) Speaker: Ashwini Patel
► Poster Station: B

11:10 AM **Quantitative evaluation of hydrocarbon containment using Seal Strength Index (SSI) and benchmarking against global analogues:** S. Wu, S. Sun, D. Pollitt (C&C Reservoirs) (INT. AUD.: 3) Speaker: Shengyu Wu
► Poster Station: C

11:35 AM.... **Sedimentary filling process and multiple driving mechanisms of passive continental margin basins during drift period:** G. Wu¹, Z. Zhang*² (1. SINOPEC Petroleum Exploration & Production Research Institute(PEPRIS); 2. Petroleum Exploration and Production Research Institute, SINOPEC) (INT. AUD.: 3)
Speaker: Zhongmin Zhang
► Poster Station: D

INT P10 Reservoir Characterization

Session Chairs: David Redpath and Carlos Uroza

Location: Poster Station 8

Synopsis: Reservoir properties computation and analysis.

10:20 AM.... **Analysis of the petroleum geology and exploration potential in the deep water, Northern Argentina:** Q. Li, H. Liu, K. Shi, M. Wei, F. Meng, L. He (BGP, CNPC) (INT.

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

- AUD.: 5) Speaker: Qiang Li
▶ Poster Station: E
- 10:45 AM.... **Seismic anomalies identified on the oceanic crust offshore, South Africa:** S. Davids (Petroleum Agency SA) (INT. AUD.: 3) Speaker: Sean Davids
▶ Poster Station: F
- 11:10 AM **A fine characterization method of Neogene composite channel sand bodies in Kenli A Oilfield:** Y. Wang, X. Sun, M. Zhao, X. Jiao (CNOOC) (INT. AUD.: 4)
Speaker: Yichuan Wang
▶ Poster Station: G
- 11:35 AM **Seismic impedance inversion based on deep learning with geophysical constraints:** D. Cao, Y. Su (China University of Petroleum - East China) (INT. AUD.: 5)
Speaker: Danping Cao
▶ Poster Station: H

INT P9 Quantitative Interpretation

Session Chairs: Chadwick Holmes and Zhiguo Wang

Location: Poster Station 8

Synopsis: New workflows and algorithms for quantitative interpretation.

- 10:20 AM.... **Seismic signature of pore-fluid mobility in heterogeneous reservoirs:** Q. Li¹, B. Wheelock¹, T. A. Tran¹, F. Santosa² (1. ExxonMobil; 2. Johns Hopkins University) (INT. AUD.: 3) Speaker: Qiuzi Li
▶ Poster Station: A
- 10:45 AM.... **A method for fault segments auto-generation from fault surface pointsets:** A. A. Jaramillo, N. Nguyen, S. Tufekci (Halliburton) (INT. AUD.: 3) Speaker: Alejandro Jaramillo
▶ Poster Station: B
- 11:10 AM **Frequency-dependent reflection characteristics of single thin layer and waveform inversion:** Z. Kuai¹, D. Cao¹, C. Jin² (1. China University of Petroleum (East China); 2. Khalifa University) (INT. AUD.: 5)
Speaker: Zhengyang Kuai
▶ Poster Station: C
- 11:35 AM **Seismic reservoir characterization of the Strawn Group, northern part of the Eastern shelf, King County, Northcentral Texas: Case study:** O. Ogiesoba (Bureau of Economic Geology, The University of Texas at Austin, Austin Texas.) (INT. AUD.: 4) Speaker: Osareni Ogiesoba
▶ Poster Station: D

IPS P2 Observation

Session Chairs: Yingping Li and Ying Zhang

Location: Poster Station 2

Synopsis: Novel monitoring systems for induced and passive seismicity and field studies in Midland, Texas, and Oklahoma.

- 10:20 AM.... **Induced seismicity in Howard County III: Event relocation using local high resolution velocity models and the impact on event locations and magnitudes:** N. Flegel¹, S. Bowman-Young¹, T. Lupo², A. R. Huffman³, R. Storniolo⁴ (1. ESG Solutions; 2. SM Energy; 3. HighPeak Energy Inc.; 4. Birch Resources) (INT. AUD.: 3)
Speaker: Nicholas Flegel
▶ Poster Station: A

- 10:45 AM.... **Fracture and regional stress-related upper crustal azimuthal anisotropy in the vicinity of the 2016 M5.1 Fairview, Oklahoma, earthquake:** E. Jiang (China National Petroleum Corporation) (INT. AUD.: 3)
Speaker: Enyuan Jiang
▶ Poster Station: B
- 11:10 AM **Passive seismic and gravity surveys for mapping bedrock and growth faults in Texas:** M. Abdrabou, M. Ahmed (Texas A&M University – Corpus Christi) (INT. AUD.: 4) Speaker: Mohamed Abdrabou
▶ Poster Station: C
- 11:35 AM **Induced seismicity in Howard County II: Comparing rapid deployment of new microelectromechanical systems (MEMS) seismic stations vs. traditional seismometers for detection of near field and far field earthquakes:** N. J. Brooks¹, T. Chen¹, X. Fang¹, A. R. Huffman², T. Lupo³, R. Storniolo⁴ (1. SensorEra Inc; 2. HighPeak Energy Inc.; 3. SM Energy; 4. Birch Resources) (INT. AUD.: 2) Speaker: Nicholas Brooks
▶ Poster Station: D

MLDA P7 Novel Applications 2

Session Chairs: Abdulmohsin AlMansour and Tugrul Konuk

Location: Poster Station 9

- Synopsis: Machine learning applications for velocity estimation, lithologic identification, organic geostratigraphic analysis, and FMI analysis.*
- 10:20 AM.... **Carbonate S-wave velocity estimation with explainable machine learning method:** T. Zhang, H. Wang, T. Guo (Research Institute of Petroleum Exploration & Development) (INT. AUD.: 3) Speaker: Tianze Zhang
▶ Poster Station: A
- 10:45 AM.... **WITHDRAWN**
- 11:10 AM **Application of data analytics to chemometric analysis of conventionally produced oil samples from the Delaware Basin:** T. Carpp (Texas A&M University) (INT. AUD.: 1) Speaker: Timothy Carpp
▶ Poster Station: C
- 11:35 AM **Machine learning-based workflow for identifying fractures and baffles from Formation Micro Imager (FMI) log: A practical application in Illinois Basin Decatur Project (IBDP):** M. F. Adenan¹, E. Fathi¹, T. Carr¹, B. Panetta¹, B. Carney² (1. West Virginia University; 2. Northeast Natural Energy LLC) (INT. AUD.: 2)
Speaker: Mohammad Adenan
▶ Poster Station: D

MLDA P8 Seismic Processing and Imaging 3

Session Chairs: Anusha Sekar and Nan You

Location: Poster Station 9

- Synopsis: Enhanced seismic imaging and resolution enhancement with machine learning methods.*
- 10:20 AM.... **Learned one-shot imaging:** M. Louboutin¹, R. Orozco², A. Shahkoochi³, F. J. Herrmann¹ (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Rice University) (INT. AUD.: 3) Speaker: Mathias Louboutin
▶ Poster Station: E

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

- 10:45 AM.... **Repeatability enforcement (RE) for time-lapse seismic measurements with deep learning:** S. D. Phan¹, W. Hu¹, A. Abubakar² (1. Schlumberger; 2. Schlumberger) (INT. AUD.: 4) Speaker: Son Phan
▶ Poster Station: F
- 11:10 AM **Seismic resolution improvement by GAN: Can high-resolution shallow-layer data enhance deep-layer data?:** Y. He¹, D. Liu², X. Wang¹, W. Chen¹ (1. Xi'an Jiaotong University; 2. Purdue University) (INT. AUD.: 3) Speaker: Yijie He
▶ Poster Station: G
- 11:35 AM **Least squares migration with a deep learning preconditioner:** K. Torres¹, M. D. Sacchi² (1. University of Alberta; 2. University of Alberta) (INT. AUD.: 3) Speaker: Kristian Torres
▶ Poster Station: H

MME P1 Mineral Exploration: Geophysics 2

Session Chairs: Xushan Lu and Alessandra Simone

Location: Poster Station 10

Synopsis: Methodology and case studies on use of geophysics for mineral exploration.

- 10:20 AM.... **Comparison of MVI with Sparse Norm Inversion Accounting for demagnetization:** J. Weis, L. Heagy, D. W. Oldenburg (University of British Columbia) (INT. AUD.: 4) Speaker: John Weis
▶ Poster Station: A
- 10:45 AM.... **Bare-earth satellite imagery and the search for hidden lithium-rich brines: An example from the Lithium Triangle in South America:** M. Broadley¹, W. Jeffery^{*2} (1. CGG; 2. CGG (Non-Author)) (INT. AUD.: 2) Speaker: William Jeffery
▶ Poster Station: B
- 11:10 AM **Assessing the effectiveness of Landsat-9 and ASTER satellite remote sensing imagery integration for uncertainty reduction in critical minerals prospecting in Mountain Pass, California:** N. Esmailzadeh¹, H. Jodeiri Akbari Fam² (1. Western Kentucky University; 2. Natural Resources of Canada) (INT. AUD.: 3) Speaker: Nima Esmailzadeh
▶ Poster Station: C
- 11:35 AM **Modeling the spectral induced polarization response of conductive spheres in faradaic dominant versus diffuse layer dominant systems:** A. Garcia¹, D. R. Glaser¹, L. Slater² (1. Rutgers University-Newark; 2. Rutgers University - Newark) (INT. AUD.: 4) Speaker: Alejandro Garcia
▶ Poster Station: D

NS P3 Urban, Geotechnical and Archeological Geophysics

Session Chairs: Tochukwu Onyebum and Lee Slater

Location: Poster Station 1

Synopsis: The use of geophysics for applications in urban areas, geotechnical problems, and archeology.

- 10:20 AM.... **Automated detection of ferromagnetic pipelines from magnetic total-field anomaly data using convolutional neural networks:** B. Bernstein¹, Y. Li², R. W. Hammack³ (1. Colorado School of Mines; 2. Colorado School of Mines; 3. US Department of Energy,

National Energy Technology Laboratory) (INT. AUD.: 2) Speaker: Brett Bernstein
▶ Poster Station: A

- 10:45 AM.... **Drone surveying for high-rise urban buildings:** S. Adcock¹, M. Allison² (1. Resource Evaluations; 2. Raptor Aerial Services) (INT. AUD.: 2) Speaker: Steve Adcock
▶ Poster Station: B
- 11:10 AM **Detection of rain-induced soil saturation change using vehicle-generated surface waves recorded by distributed acoustic sensing:** S. Yuan, J. Liu, R. G. Clapp, H. Y. Noh, B. Biondi (Stanford University) (INT. AUD.: 3) Speaker: Siyuan Yuan
▶ Poster Station: C
- 11:35 AM.... **A study of marine archaeo-geophysics: Major findings from the coasts of Perinthos by multi-beam bathymetry data:** B. Karadöller¹, C. Imren¹, Z. Erdem² (1. Istanbul Technical University; 2. Mimar Sinan Fine Art University) (INT. AUD.: 3) Speaker: Beril Karadöller
▶ Poster Station: D

NS P4 Seismic for Near Surface Geophysics

Session Chairs: Lindsey Heagy and Richard Miller

Location: Poster Station 1

Synopsis: The use of seismic methods and distributed acoustic sensing (DAS) in near surface geophysics.

- 10:20 AM.... **Estimating site amplification variability in Yangon, Myanmar using a dense nodal seismic array:** M. Islam³, P. Persaud¹, M. Thant², K. Win², E. Sandvol³ (1. University of Arizona; 2. University of Yangon; 3. University of Missouri Columbia) (INT. AUD.: 3) Speaker: MD Mohimanul Islam
▶ Poster Station: E
- 10:45 AM.... **Detecting a near-surface elongated void using the converted-wave surface wave imaging (CSWI) method in Yuma, Arizona:** J. Ivanov¹, S. L. Peterie¹, R. D. Miller¹, D. Borisov¹, S. Sloan² (1. Kansas Geological Survey; 2. U.S. Army Engineer Research & Development Center) (INT. AUD.: 3) Speaker: Julian Ivanov
▶ Poster Station: F
- 11:10 AM **Application of tomographic inversion method constrained by uphole velocity in complex mountainous areas:** Z. Heng¹, A. Hongyi², X. Kefeng¹, Y. Yuan¹, H. Botao¹, L. Wenbiao¹ (1. BGP, CNPC; 2. PetroChina Southwest Oil & Gasfield Company, Chengdu, Sichuan 610051, China) (INT. AUD.: 4) Speaker: Zhang Heng
▶ Poster Station: G
- 11:35 AM.... **Joint inversion of Rayleigh and Love waves using deep learning:** X. Chen, J. Xia, Y. Hong, J. Pang (Zhejiang University) (INT. AUD.: 4) Speaker: Xinhua Chen
▶ Poster Station: H

RP P3 Reservoir Characterization

Session Chairs: Mandy Schindler and Julian Yao

Location: Poster Station 5

Synopsis: This session is focused on the applications of rock physics concepts for better reservoir characterization.

- 10:20 AM.... **4D seismic feasibility study for CO₂ and waterflooding in the Permian Basin, Texas:** N. Omoruyi¹, S. Verma², S. Bhattacharya³, Z. Zeng⁴, M. Henderson¹, R.

Thursday, 31 August

Trentham¹ (1. The University of Texas Permian Basin; 2. UT Permian Basin; 3. Bureau of Economic Geology; 4. University of Texas, Permian Basin) (INT. AUD.: 3)
Speaker: Nelly Omoruyi
► Poster Station: A

10:45 AM.... **Anisotropic elastic moduli of presalt carbonates from Santos Basin, Brazil:** I. A. Lima Neto¹, M. R. Ceia², R. M. Misságia², L. C. Oliveira¹, V. H. Santos², J. Moreira¹ (1. FACC; 2. UENF) (INT. AUD.: 3) Speaker: Irineu Lima Neto
► Poster Station: B

11:10 AM **WITHDRAWN**

11:35 AM **A novel rock physics modeling approach with pore-connectivity parameter inversion in tight sandstone reservoirs:** J. Chen, J. Ba, Q. Guo (Hohai University) (INT. AUD.: 3) Speaker: Jiawei Chen
► Poster Station: D

SILIC P4 Shallow Marine Sedimentary Systems 2

Session Chairs: Johanna Moutoux and Nadine Pearson

Location: Poster Station 10

Synopsis: Shallow marine sedimentary processes and their deposits from conventional and unconventional standpoints. Advances in knowledge, facies models and forward stratigraphic modeling.

10:20 AM.... **Paleoenvironmental interpretations of the Silurian Qalibah Formation by integrating sedimentological and ichnological characterizations in both cores and outcrops from the Qassim Region, Saudi Arabia:** K. Ayranci¹, T. Finkbeiner², E. Gramajo³, R. M. Rached³, M. Osman¹, A. J. Abdmutalib¹, M. Salva Ramirez², O. A. Aziz¹ (1. King Fahd University of Petroleum and Minerals, College of Petroleum and Geosciences; 2. Ali I. Al-Naimi Petroleum Engineering Research Center, King Abdullah University of Science; 3. SINOPEC Tech Middle East LLC., Sinopec R&D Center, Building 8195, Ibn Alhatiham St.,) (INT. AUD.: 1) Speaker: Korhan Ayranci
► Poster Station: E

10:45 AM.... **3D outcrop-based characterization of shoreface sequence architectures on an uplifting interbasinal relay zone: The Late Pleistocene Corinth Rift, Greece.:** J. Arif (University of Leeds) (INT. AUD.: 4) Speaker: Junaid Arif
► Poster Station: F

11:10 AM **Deltas at the shelf edge and their relationship with shelf-incising canyons:** C. Olariu¹, R. Steel¹, M. I. Olariu² (1. The University of Texas at Austin; 2. UT Austin) (INT. AUD.: 3) Speaker: Cornel Olariu
► Poster Station: G

11:35 AM.... **Alluvial fan and fan delta facies architecture recording initial marine flooding in the Mio-Pliocene syn-rift sequence of the Fish Creek-Vallecito Basin, southern California:** R. Alasad¹, C. Olariu², R. Steel¹ (1. University of Texas Austin; 2. The University of Texas at Auststin) (INT. AUD.: 1) Speaker: Rawan Alasad
► Poster Station: H

SMT P1 Theoretical Developments in Seismic Modeling and Wave Phenomena 5

Session Chairs: Steven Cochran and Will Sanger

Location: Poster Station 2

Synopsis: Papers in this session cover theoretical developments involving advanced numerical modeling methods for wave propagation in complex media.

10:20 AM.... **Numerical simulation of coupled acoustic-elastic anisotropic media:** Y. Chen¹, D. Wang¹, J. Zhang², S. Lv^{*1}, Y. Su³ (1. Jilin University; 2. Jilin University; 3. Jilin University) (INT. AUD.: 3) Speaker: Shiqi Lv
► Poster Station: E

10:45 AM.... **A particle-based elastic wave simulation method in 3D arbitrary anisotropic media using GPU:** P. Wang, x. Jia (USTC) (INT. AUD.: 3) Speaker: Pinghao Wang
► Poster Station: F

11:10 AM **Decoupled approximation of qP- and qSV-waves in attenuated transversely isotropic media:** R. Huang, Z. Wang, G. Song (Southwest Petroleum University) (INT. AUD.: 4) Speaker: Rong Huang
► Poster Station: G

11:35 AM **Pure quasi-P-wave modeling and inverse time migration in VTI media based on pseudodifferential correction term in spatial domain:** S. Qin¹, J. Yang², J. Huang¹, Y. Tian³, Z. Li¹ (1. China University of Petroleum (East China); 2. China University of Petroleum (East China); 3. China University of Petroleum) (INT. AUD.: 4) Speaker: Shanyuan Qin
► Poster Station: H

SP P10 Imaging Case History

Session Chairs: Jianyong Bai and Yi Shen

Location: Poster Station 6

Synopsis: Case studies in seismic exploration and imaging in various geological settings.

10:20 AM.... **Discovering the deep reservoir beneath complex fault and overlaid volcanic in Pearl River Mouth Bason:** Z. Zhang¹, Q. Yuan², L. Jia¹, X. Peng¹ (1. CNOOC Ltd. - Shenzhen; 2. CNOOC) (INT. AUD.: 4) Speaker: Zhenbo Zhang
► Poster Station: E

10:45 AM.... **Attenuation-compensated reverse time migration in complex viscoacoustic tilted transversely isotropic media:** X. Mu, J. Huang (China University Of Petroleum (East China)) (INT. AUD.: 4) Speaker: Xinru Mu
► Poster Station: F

11:10 AM **Hybrid streamer/sparse OBN imaging offshore Norway:** C. D. Walker¹, Z. Zhou², X. Li² (1. BGP Offshore; 2. Broad Geophysical) (INT. AUD.: 3) Speaker: Christopher Walker
► Poster Station: G

11:35 AM **S-wave velocity model building using PP-PS tomography with Dynamic Warping:** T. Krishnasamy¹, R. Florendo¹, A. Nangarla¹, C. Udengaard¹, P. Mazumdar², K. Searles², B. Olofsson², J. Gaiser³ (1. TGS; 2. ExxonMobil Technology and Engineering Company; 3. Gaiser Geophysical Consulting) (INT. AUD.: 3) Speaker: Terence Krishnasamy
► Poster Station: H

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

SP P9 Migration Algorithms 2

Session Chairs: Sizhuang Deng and Ting Gong

Location: Poster Station 6

Synopsis: Advancements in migration algorithms using adaptive grids, extended wavefields, and gather output.

- 10:20 AM.... **Improvement of inverse scattering angle-domain common image gathers using optical flow:** A. A. Karsou¹, S. L. da Silva², F. V. Capuzzo¹, F. T. Costa¹, R. Moreira¹, M. Cetale¹ (1. GISIS/Universidade Federal Fluminense; 2. DISAT, Politecnico di Torino) (INT. AUD.: 3) Speaker: Ammir Karsou
▶ Poster Station: A
- 10:45 AM.... **Stacking common-image gathers via the flatten-illumination-similarity method:** C. Wu¹, H. Wang¹, B. Feng¹, C. Ning¹, X. Tang² (1. Tongji University; 2. SINOPEC) (INT. AUD.: 5) Speaker: Chengliang Wu
▶ Poster Station: B
- 11:10 AM.... **Improve imaging using extended wavefields in the presence of velocity errors:** L. Liu, Y. Ma (Aramco Research Center - Beijing) (INT. AUD.: 3) Speaker: Lu Liu
▶ Poster Station: C
- 11:35 AM.... **Diffraction imaging for deep carbonate reservoir:** K. Xiang, Y. Bai (Sinopec Geophysical Research Institute) (INT. AUD.: 3) Speaker: Kun Xiang
▶ Poster Station: D

STGM P4 Faults, Fractures, and Fluids 2

Session Chairs: Anindita Dash and Timothy Davis

Location: Poster Station 4

Synopsis: Studies focused on fault and fracture formation, with implications for reservoir potential.

- 10:20 AM.... **Paleogene tectonic evolution and its controlling factors of the Qiongdongnan Basin, northern South China Sea:** J. Zhang¹, Z. Wu¹, Y. Cheng² (1. China University of Petroleum (East China); 2. Shandong University of Science and Technology) (INT. AUD.: 4) Speaker: Jie Zhang
▶ Poster Station: A
- 10:45 AM.... **WITHDRAWN**
- 11:10 AM.... **Geomechanics and drilling challenges in deepwater salt thrust fields:** S. S. Shaker (Geoscientist) (INT. AUD.: 2) Speaker: Selim Shaker
▶ Poster Station: C
- 11:35 AM.... **WITHDRAWN**

SUS P1 Earth Science in Action

Session Chairs: Ademola Lanisa and Wyatt Lindsey

Location: Poster Station 7

Synopsis: Scientific methods, resource characterization, and geohazard risk assessments can be applied to a diverse mix of energy solutions within the sustainable development goals (SDGs) framework.

- 10:20 AM.... **Seismic velocity analysis and rock physics modelling for temperature variations in structurally complex geothermal reservoirs:** Q. Yasin¹, Y. Ma^{*2}, B. Liu², G. Sohail³ (1. Shandong University of Science and Technology; 2. Northeast Petroleum University; 3. University of Engineering and Technology, Lahore)

(INT. AUD.: 4) Speaker: Yan Ma

▶ Poster Station: A

- 10:45 AM.... **Wastewater injection challenges in the Permian Basin region:** K. Smye, K. Yut, R. C. Reedy, B. R. Scanlon, J. Nicot, P. H. Hennings (The University of Texas at Austin) (INT. AUD.: 3) Speaker: Katie Smye
▶ Poster Station: B
- 11:10 AM.... **Paleozoic stratigraphic record and reservoir potential for saltwater disposal in the Midland Basin, west Texas:** A. Calle¹, E. A. Horne², K. Smye³, P. H. Hennings⁴ (1. Bureau of Economic Geology; 2. University of Texas at Austin; 3. Bureau of Economic Geology; 4. The University of Texas at Austin) (INT. AUD.: 3) Speaker: Amanda Calle
▶ Poster Station: C
- 11:35 AM.... **Unlocking deep formation of Mangunjaya Field using modular dynamic tester (MDT), petrophysical approach and stimulation fracturpack in low resistivity reservoir: Success story development well MJ 137 in 2022:** A. Samudra (Pertamina) (INT. AUD.: 2) Speaker: Ardi Julian Samudra
▶ Poster Station: D

TL P1 Feasibility, Processing and Imaging of 4D Seismic

Session Chairs: Carmen Dumitrescu and Kanglin Wang

Location: Poster Station 3

Synopsis: This session includes presentations steered towards feasibility, processing, and imaging of time-lapse seismic data.

- 10:20 AM.... **Surface-to-borehole electromagnetic for waterflood monitoring in horizontal wells: Feasibility study using numerical simulation:** A. Y. Taqi, D. Colombo, E. Turkoglu (Saudi Aramco) (INT. AUD.: 6) Speaker: Alyousuf Taqi
▶ Poster Station: E
- 10:45 AM.... **Time-lapse seismic at 29,000': What can we learn?:** J. Stammeijer¹, P. Cornelisse¹, C. Gautre¹, J. Jimenez¹, P. Hatchell² (1. Shell; 2. formerly Shell) (INT. AUD.: 3) Speaker: Jan Stammeijer
▶ Poster Station: F
- 11:10 AM.... **Imaging of stimulated rock volumes in a multi-well/multi-landing PAD in Vaca Muerta using 4D seismic.:** G. Chao, M. Sainz-Trápaga, A. Canatelli, C. Cardama, L. Parigini, F. Achilli (TotalEnergies) (INT. AUD.: 2) Speaker: Gabriel Chao
▶ Poster Station: G
- 11:35 AM.... **Real-time 6C station to improve land noise attenuation of sparse land surface seismic survey for CO₂ monitoring at an industrial site:** C. Barajas-Olalde¹, D. C. Adams², J. T. Kovacevich¹, T. L. Richards¹, D. Burns³, Z. Xue⁴, K. Connors⁵ (1. Energy & Environmental Research Center, University of North Dakota; 2. Energy & Environmental Research Center; 3. Red Trail Energy, LLC; 4. Research Institute of Innovative Technology for the Earth; 5. Plains CO₂ Reduction (PCOR) Partnership Initiative) (INT. AUD.: 3) Speaker: Cesar Barajas-Olalde
▶ Poster Station: H

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

UNCON P4 Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 2

Session Chairs: Sergio Chávez-Pérez and Jan Norbistrath

Location: Poster Station 7

Synopsis: This session focuses on multidisciplinary techniques including the application data science within unconventional.

10:20 AM.... **Ranking of the US shale plays using data science: Insights into oil production performance:** R. Sorkhabi², P. Palash¹, M. Deo¹ (1. University of Utah; 2. University of Utah, Energy & Geoscience Institute) (INT. AUD.: 2)
Speaker: Rasoul Sorkhabi
▶ Poster Station: E

10:45 AM.... **Statistical rock physics inversion for assessing source rock potential from seismic signatures:** J. Huang³, A. Hosford Scheirer¹, T. Mukerji² (1. Stanford University; 2. Stanford University; 3. Stanford University) (INT. AUD.: 4)
Speaker: Jiayuan Huang
▶ Poster Station: F

11:10 AM **Application of artificial intelligence for simultaneous water and gas coning problems in hydraulically fractured tight oil reservoirs:** M. Kumar (Rajiv Gandhi Institute of Petroleum Technology) (INT. AUD.: 4)
Speaker: Mihir Kumar
▶ Poster Station: G

11:35 AM **Basin-wide mapping of Poisson's ratio of the Wolfcamp and Spraberry formations in the Midland Basin, integrating petrophysical modeling, class-based machine learning, and core measurements:** S. Bhattacharya, R. Sabbagh (The University of Texas at Austin) (INT. AUD.: 3) Speaker: Shuvajit Bhattacharya
▶ Poster Station: H

CEMS P5 Utilization of Core in Carbonate Reservoir Characterization

Session Chairs: Jean Hsieh and William Morgan

Location: Poster Station 4

Synopsis: This session highlights the value of core in unraveling complex facies motifs, diagenesis, and drivers behind petrophysical properties in carbonate reservoirs.

1:20 PM..... **Quantitative study on pore evolution of ancient carbonate reservoir:** Z. You, X. Zheng (PetroChina Hangzhou Research Institute of Petroleum Geology) (INT. AUD.: 5) Speaker: Zhang You
▶ Poster Station: A

1:45 PM..... **Litho variations in upper and lower Mishrif in Binhadi Area—core analysis approach:** O. A. AlJallad¹, D. Gonzalez¹, S. Koronfol¹, K. Vican¹, A. Shashanka², M. Suhrer^{*3} (1. Halliburton; 2. Al Yasat Petroleum; 3. Halliburton (Non-Author)) (INT. AUD.: 6)
Speaker: Michael Suhrer
▶ Poster Station: B

2:10 PM **A new insight on early dolomitization from a mixed carbonates-siliciclastics-evaporites depositional system in southwestern Qatar:** M. Al-Musawi¹, P. J. Moore², S. E. Kaczmarek¹, J. M. Rivers³ (1. Western Michigan University; 2. Exxon Mobil; 3. Queen's University) (INT. AUD.: 3)

Speaker: Mohammed Al-Musawi

▶ Poster Station: C

2:35 PM..... **Spherulitstone as a transitional facies responding to lake level variation – diagenetic or depositional?:** S. N. Tonietto¹, J. B. Gomes², R. B. Bunevich³, M. M. Erthal¹ (1. Petrobras; 2. Petrobras; 3. Petrobras) (INT. AUD.: 3)
Speaker: Sandra Tonietto
▶ Poster Station: D

GM P1 Potential Field Applications

Session Chairs: Alan Morgan and Rao Yalamanchili

Location: Poster Station 5

Synopsis: Interesting applications for potential field measurements.

1:20 PM..... **Machine learning inversion for highly non-unique problems using random forest:** D. Yang (Southern University of Science and Technology) (INT. AUD.: 3)
Speaker: Dikun Yang
▶ Poster Station: A

1:45 PM..... **Looking for a simplified and generalized training set in ML applications for gravity modelling:** L. Bianco, C. Messina, M. Fedi (University of Naples Federico II) (INT. AUD.: 3) Speaker: Luigi Bianco
▶ Poster Station: B

2:10 PM..... **Comparison of potential fields inversion techniques for basement relief recovery: A case study from the Taubate Basin, Brazil:** F. M. Hermes, G. Lenz, L. G. Miquelutti, M. Cetale (Universidade Federal Fluminense) (INT. AUD.: 3) Speaker: Fernanda Clara Hermes
▶ Poster Station: C

2:35 PM..... **The potential of magnetic field measurements in fracking monitoring and anisotropic scenarios:** A. Curcio (PROINGEO SA, SEG) (INT. AUD.: 2)
Speaker: Ana Curcio
▶ Poster Station: D

INT P11 Case Study: Structural Modeling

Session Chairs: Danping Cao and Tobi Ore

Location: Poster Station 8

Synopsis: Case studies about structural modeling.

1:20 PM..... **Geologically constrained model building for seismic depth imaging in Camisea, Peru:** R. Vestrum¹, J. Soldo², E. Zunino², M. Muzzio², J. Chung² (1. Thrust Belt Imaging; 2. PlusPetrol) (INT. AUD.: 2) Speaker: Rob Vestrum
▶ Poster Station: A

1:45 PM..... **Machine learning impacts on seismic interpretation: A case study of Exmouth, Western Australia:** F. Ruan, O. Zimina (SLB) (INT. AUD.: 4) Speaker: Fengming Ruan
▶ Poster Station: B

2:10 PM..... **Depth correction using velocity for structure calibration at Leviathan field, offshore Israel:** Y. Zhou, B. Christensen, L. Christianson (Chevron) (INT. AUD.: 1)
Speaker: Yijie Zhou
▶ Poster Station: C

2:35 PM..... **Integrating well-log and seismic data to identify subtle structural traps for hydrocarbon exploration in the Permian Cooper Basin, Australia:** M. Alamooti, S. Namie, S. A. Eiring (University of North Dakota) (INT. AUD.: 3) Speaker: Moones Alamooti
▶ Poster Station: D

Poster Sessions



Audio- and/or videotaping of any portion of the Technical Program or workshops held in conjunction with IMAGE meetings is prohibited without prior consent.

Thursday, 31 August

MLDA P9 Petrophysical Analytics and Borehole Applications

Session Chairs: Jinsong Chen and Andrew Silver

Location: Poster Station 9

Synopsis: Uses of advanced analytics in petrophysical workflows and borehole characterizations.

- 1:20 PM..... **2D image analysis using self-organizing maps to determine pore geometries: A case study in carbonate reservoirs of the Brazilian pre-salt:** N. Zeitoum⁴, M. Kuroda⁵, J. d. Souza⁵, A. Jordao¹, H. Pedrini¹, A. C. Vidal³, M. Rezende², A. Mello Junior², Y. Silva² (1. University of Campinas; 2. Leopoldo Américo Miguez de Mello Research and Development Center (CENPES); 3. Department of Geology and Natural Resources (DGRN); 4. Faculty of Mechanical Engineering (FEM), State University of Campinas (UNICAMP); 5. Center for Energy and Petroleum Studies (CEPETRO), State University of Campinas (UNICAMP)) (INT. AUD.: 4)
Speaker: Michelle Avansi
► Poster Station: A
- 1:45 PM..... **Automated log quality control workflow for wind farm site characterization:** V. Simoes, A. Abubakar, H. Maniar, H. Di (SLB) (INT. AUD.: 3) Speaker: Vanessa Simoes
► Poster Station: B
- 2:10 PM..... **Synthetic digital thin-section image generation to classify microfacies through deep learning models:** A. Jordao¹, J. d. Souza^{*2}, N. Zeitoum³, M. Kuroda², H. Pedrini¹, A. C. Vidal⁴, M. Rezende⁵, Y. Silva⁵ (1. University of Campinas; 2. State University of Campinas; 3. Master student; 4. Institute of Geosciences; 5. Petrobras Research Center) (INT. AUD.: 5)
Speaker: Joao Paulo Souza
► Poster Station: C
- 2:35 PM..... **Empirical-informed CNN model for logging curve calibration:** X. Hu¹, X. Wen², L. Ma², B. Wu¹, H. Li¹ (1. Xi'an Jiaotong University; 2. Shaanxi Coal field Geophysical Prospecting and Surveying Co.,Ltd) (INT. AUD.: 3)
Speaker: Xinyu Hu
► Poster Station: D

RP P4 Pore Structure Effects

Session Chairs: Ronny Hofmann and Rudi Lubbe

Location: Poster Station 1

Synopsis: This session focuses on the effect of pore structure and texture on elastic properties of clastics and carbonates.

- 1:20 PM..... **Exploring the implication of inclusion shapes in inclusion-based models through computational modeling:** O. Alnasery, K. Spikes (The University of Texas at Austin) (INT. AUD.: 3) Speaker: Osama Alnasery
► Poster Station: A
- 1:45 PM..... **Estimation of pore geometry from elastic and transport properties in tight sandstones:** L. Zhang, J. Ba, H. Zhu (Hohai University) (INT. AUD.: 2) Speaker: Lin Zhang
► Poster Station: B
- 2:10 PM..... **Ultrasonic velocity tomography of rock sample:** T. Xie¹, J. Zhang¹, N. Lan^{*2} (1. China University of Petroleum (East China); 2. National Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China) (Non-

Author)) (INT. AUD.: 2) Speaker: Nanying Lan
► Poster Station: C

- 2:35 PM..... **Pseudo-sonic curves from neutron porosity:** J. C. Morgan¹, K. Chesser² (1. Land Seismic Noise Specialists; 2. ANK Geosciences, LLC) (INT. AUD.: 3)
Speaker: James Morgan
► Poster Station: D

SILIC P5 Other Relevant Topics

Session Chairs: Ashley Harris and Tim Middleton

Location: Poster Station 10

Synopsis: Topics related to siliciclastic systems including applied chemostratigraphy, source to sink and clay minerals.

- 1:20 PM..... **Integrated sequence stratigraphy of the Southern Denver Basin:** K. Peat, A. D. Donovan, M. Pope (Texas A&M University) (INT. AUD.: 3) Speaker: Kellen Peat
► Poster Station: A
- 1:45 PM..... **Aeolian bounding surface geometry:** A. Archbold, M. Day (University of California, Los Angeles) (INT. AUD.: 2)
Speaker: Alana Archbold
► Poster Station: B
- 2:10 PM..... **Stratigraphic forward modeling and its applications in geostatistical reservoir modeling: Case studies from Alaska's North Slope:** J. F. Delgado¹, D. Hansen², M. Scheihing², L. Strumness², E. S. Staples², S. Courtade³ (1. Conocophillips; 2. ConocoPhillips Alaska; 3. Schlumberger Limited) (INT. AUD.: 5)
Speaker: Jose Delgado
► Poster Station: C
- 2:35 PM..... **Unlocking foreland tectonostratigraphy: The Tectophase model:** G. Martins¹, F. R. Etensohn², S. Knutsen³ (1. University of Kentucky; 2. University of Kentucky; 3. Norwegian Petroleum Directorate) (INT. AUD.: 1) Speaker: Gustavo Martins
► Poster Station: D

SMT P2 Theoretical Developments in Seismic Modeling and Wave Phenomena 6

Session Chairs: Jon Burren and Yoryenys Del Moro

Location: Poster Station 2

Synopsis: Papers in this session cover theoretical developments involving numerical modeling of wavefield propagation, imaging and inversion.

- 1:20 PM..... **Forward modeling for arbitrary irregular free-surface based on body-fitted grid:** E. Wei, J. Huang, Z. Li (China University of Petroleum (East China)) (INT. AUD.: 3)
Speaker: Erxiang Wei
► Poster Station: A
- 1:45 PM..... **Physical modeling study of seismic wave field excited by different types of shear wave:** P. Ding¹, H. Chen¹, F. Zhang¹, X. Li¹, P. Sun² (1. China University of Petroleum (Beijing); 2. BGP, CNPC) (INT. AUD.: 3)
Speaker: Pinbo Ding
► Poster Station: B
- 2:10 PM..... **Accurate simulations of pure P-waves in attenuating transversely isotropic media:** Q. Mao, J. Huang, X. Mu (China University of Petroleum (East China))

(INT AUD:) = indicates intended audience

1 = Little or no detailed knowledge of general topic area
2 = Heard of topic area but has no direct experience
3 = Some knowledge and experience in topic area

4 = Significant knowledge and experience in topic area
5 = Detailed knowledge and experience in topic area
6 = Domain area specialists

Thursday, 31 August

- (INT. AUD.: 3) Speaker: Qiang Mao
► Poster Station: C
- 2:35 PM..... **An optimal spatial-filtering method derived from eigenvalue perturbation for extending the Courant-Friedrichs-Lewy stability limit:** Z. Miao, J. Zhang (Institute of Geology and Geophysics, Chinese Academy of Sciences) (INT. AUD.: 1) Speaker: Zhongzheng Miao
► Poster Station: D

SP P11 Emerging Technologies: Case Studies and Advances

Session Chairs: Aravind Nangarla and Adam Searle

Location: Poster Station 6

Synopsis: Advanced techniques and workflows in seismic imaging with application to various exploration problems.

- 1:20 PM..... **Adaptive re-processing workflow for unconventional shallow heavy oil production:** F. Basha, M. J. Ali, R. P. Kusumo (Kuwait Oil Company) (INT. AUD.: 3) Speaker: Fatemah Basha
► Poster Station: A
- 1:45 PM..... **Application of wide azimuth OBC seismic exploration technology in Bozhong 19-6 giant gas field:** J. Zhang, X. Ma, J. Li, Z. Wang, Y. Niu (China National Offshore Oil Corporation (CNOOC) Limited) (INT. AUD.: 5) Speaker: Jianfeng Zhang
► Poster Station: B
- 2:10 PM..... **Wave equation traveltime Kirchhoff with real data applications:** H. Jin, V. Bashkardin, P. Jilek, C. Kumar, H. Liu, J. Etgen, M. Vyas, g. xia (bp) (INT. AUD.: 3) Speaker: Hu Jin
► Poster Station: C
- 2:35 PM..... **Predicting full-track from fast-track processed seismic data with GAN: A real data example:** J. A. Collazos², K. d. Rincon², J. M. Araujo², J. L. Lopez¹ (1. Shell Brasil Petroleo Ltda; 2. UFRN) (INT. AUD.: 3) Speaker: Jaime Collazos
► Poster Station: D

TL P2 Improvements in Time-lapse Analysis

Session Chairs: Andrey Shabelansky and Maria Tatanova

Location: Poster Station 3

Synopsis: This session includes presentations steered towards improvements in visualization, analysis and inversion of time lapse seismic.

- 1:20 PM..... **Angle-dependent 4D seismic time-strain inversion in elliptical VTI media:** K. Taweesintananon¹, M. Landrø¹, S. Narongsirikul², P. Folstad² (1. NTNU – Norwegian University of Science and Technology; 2. ConocoPhillips Norge) (INT. AUD.: 2) Speaker: Kittinat Taweesintananon
► Poster Station: A
- 1:45 PM..... **Machine learning-based time-lapse velocity inversion in CCS field with efficient training data generation:** S. Kim, S. Seol, J. Byun, J. Park (Hanyang University (RISE. ML)) (INT. AUD.: 4) Speaker: Sooyoon Kim
► Poster Station: B

- 2:10 PM..... **Time-lapse impedance variations from DAS VSP data during CO₂ injection at the CMC Newell County Facility, Alberta, Canada:** Y. Wang¹, D. Lawton² (1. University of Calgary; 2. Carbon Management Canada) (INT. AUD.: 6) Speaker: Yichuan Wang
► Poster Station: C
- 2:35 PM..... **Time-lapse seismic full-waveform inversion with targeted null-space shuttles:** S. Keating, K. Innanen* (University of Calgary) (INT. AUD.: 3) Speaker: Kristopher Innanen
► Poster Station: D

UNCON P5 Pore-scale Techniques and Laboratory Studies for Characterizing Mudrocks 2

Session Chairs: Abdullah Alkhalidi and Lucy Tingwei Ko

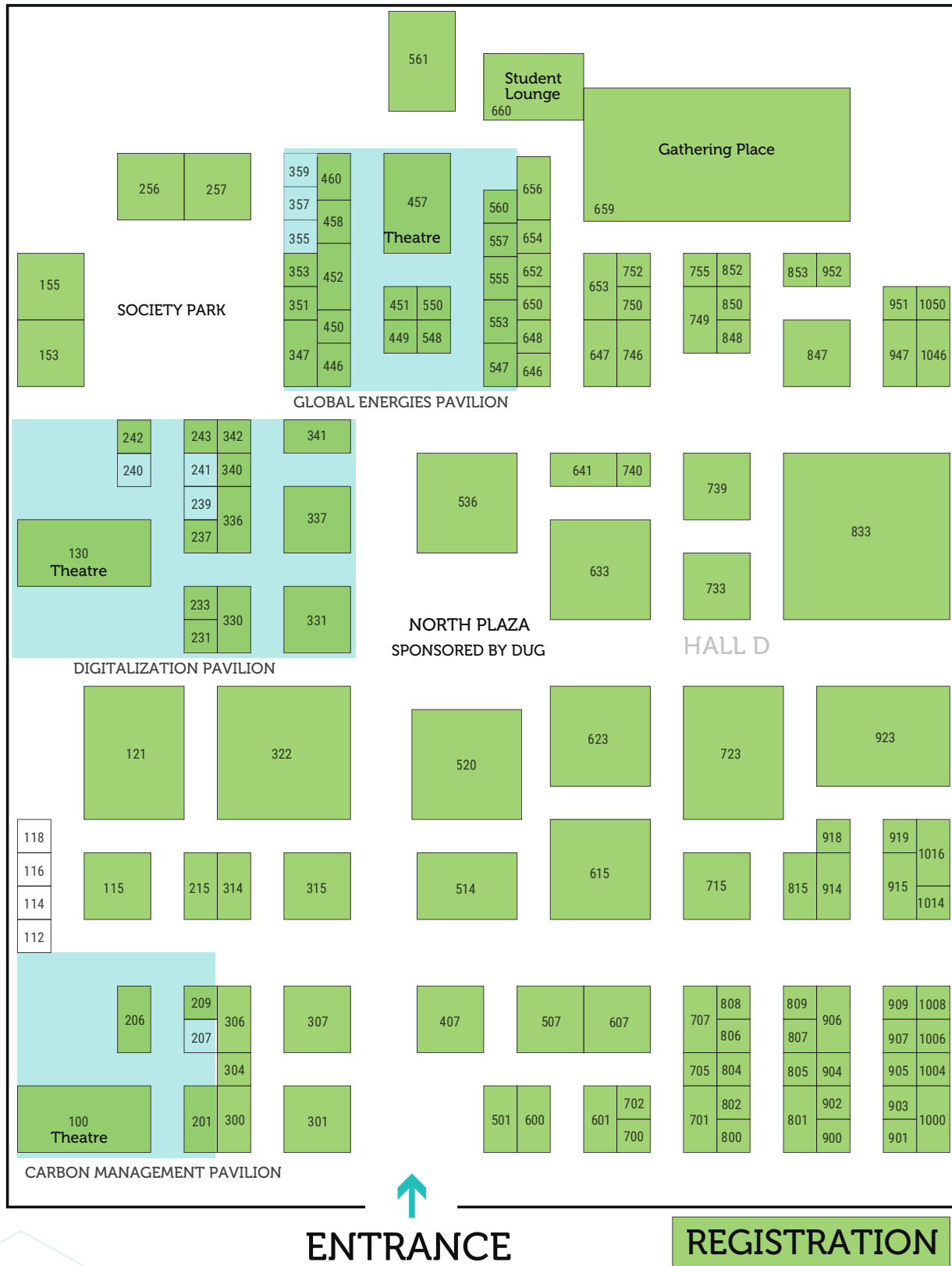
Location: Poster Station 7

Synopsis: This session focuses on the analysis of shales and tight reservoirs using laboratory instrumentations and techniques.

- 1:20 PM..... **An innovative and effective method for identifying shale oil families using gas chromatographic fingerprinting and mass spectrometry imaging:** D. Zhang¹, Y. Xiao^{*1}, T. Ye¹, J. Chang¹, X. Lin² (1. Sinopec Petroleum Exploration and Production Research Institute; 2. Sinopec Petroleum Exploration and Production Research Institute) (INT. AUD.: 5) Speaker: Yitian Xiao
► Poster Station: A
- 1:45 PM..... **Changes in carbon K_α peak spectrum: A novel method to estimate organic matter thermal maturity using an electron probe microanalyzer:** H. Zhou¹, M. Torres¹, G. Costin¹, D. Minisini², J. Birdwell³, P. Hackley⁴ (1. Rice University; 2. Shell; 3. U.S. Geological Survey; 4. U.S. Geological Survey) (INT. AUD.: 3) Speaker: Haolin Zhou
► Poster Station: B
- 2:10 PM..... **Geochemical variability of mudstone-carbonate strata of the Wolfcamp Group and insights to recognize reservoir prone facies. A case study from an extended core (~ 900 ft thick) in the Eastern Delaware Basin, Texas:** M. A. Gutierrez, A. Donovan, M. Pope, E. J. Peavey (Texas AM University) (INT. AUD.: 4) Speaker: Maria Gutierrez
► Poster Station: C
- 2:35 PM..... **Multi-scale pore characterization of turbiditic-influenced fine-grained sandstones: Early Silurian Qusaiba member, Northwestern Saudi Arabia:** A. J. AbdImutalib, O. Abdullatif (King Fahd University of Petroleum and Minerals) (INT. AUD.: 3) Speaker: Ammar AbdImutalib
► Poster Station: D

Exhibition Floor

Interact with top geoscience innovators on the **IMAGE '23 exhibition floor!**
 To better serve our audience, the exhibition hall features four content focus areas: near surface, digitalization, carbon management, and global energy.



Exhibition Floor Hours:

Monday, 28 August

Exhibition and Icebreaker Reception
5:30 p.m.–7:30 p.m.

Tuesday, 29 August

Exhibition 9:00 a.m.–6:00 p.m.

Wednesday, 30 August

Exhibition 9:00 a.m.–6:00 p.m.

Thursday, 31 August

Exhibition 9:00 a.m.–3:00 p.m.



Exhibitor List

List current as of 8 August 2023

EXHIBITOR	BOOTH	EXHIBITOR	BOOTH	EXHIBITOR	BOOTH
AAPG American Association of Petroleum Geologists	256	Delft Inversion	1004	Geometrics, Inc.	2033
AAPG Datapages	256	dGB Earth Sciences	1737	GeoMind	407
AAPG Foundation	257	DGH/UH Center of Hydrocarbon Exploration	553	Geonics Limited	2034
ACT-GEO and Geology Field School	904	DGH/UH Center of Hydrocarbon Exploration	1705	GeoPartners Ltd	550
AGT	1019	Digitalization Theater	130	Geophysical Deep Sensing Technology Co., Ltd	1556
Alcatel Submarine Networks	1641	Diversified Well Logging	1144	Geophysical Society of Houston	806
Allton	1006	DMT GmbH & Co. KG	1939	Geophysical Technology Inc. (GTI)	1447
ALT - ADVANCED LOGIC TECHNOLOGY	1941	DownUnder GeoSolutions	322	GeoScienceWorld	800
ANCAP	451	Dynamic Aviation Group, Inc	1013	GeoSoftware	1716
Applied Acoustics	2032	Dynamic Graphics, Inc.	815	Geospace Technologies	923
Applied Geodynamics Laboratory (AGL)	902	EAGE	905	Geoteric	1239
Aramco	833	Earth Pulse (Wuxi) Technology Co., Ltd	1450	Getech	1835
ARK CLS	1119	Earth Signal Processing Ltd	1723	Glenair, Inc.	1005
AspenTech Subsurface Science & Engineering	536	East View Geospatial	1748	Global Energy Theater	457
Atlas Fluid Controls Corporation	1741	EasyCopy Company	2023	GVERSE GeoGraphix	715
Automated Seismics	1149	EDCON-PRJ, Inc	1016	Halliburton	615
AWS	337	EDGE Systems	915	High Tech Inc	1701
Badley Ashton Geosolutions	209	Eliis	733	Houston Geological Society	1351
Baker Hughes	1923	EMGS	1709	HRH Geology	1549
Baylor University Department of Geoscience	805	ENAGEO, Entreprise Nationale de Géophysique	314	Hydrocarbon Data Systems, Inc.	646
BEICIP INC	740	Energy Geoscience Institute	702	IKON Mining & Exploration	115
Beijing Orangelamp Geophysical Exploration Co.,Ltd	1251	Engenius Software	1109	Ikon Science	739
Beijing Petrosound Technology Co Ltd	1350	Entec Evotec AS	1209	Imaged Reality LTD	233
Bell Geospace	1014	Envoi Limited	460	Impac Exploration Services	600
BGP Inc.	1433	ETAP	557	In-Depth Geophysical, Inc.	749
Blackriver Software Solutions	1148	Exhibitor Lounge	2000	INOVA Geophysical	1233
Bluware	330	Exhibitor Rebooking/Sales Office	2002	INP - National Petroleum Institute	548
bp	746	ExxonMobil	650	ISTI	700
Bruker AXS LLC	705	Fairfield Geotechnologies	1423	Interactive Network Technology (INT)	315
C&C Reservoirs	601	Falmouth Scientific Inc.	1100	IRIS Instruments	2035
Carbon Management Theater	100	FGPS	1119	Isobar Science	1008
Cegal, LLC	215	FOSINA	1811	Katalyst Data Management	623
CGG	1622	Fraunhofer ITWM	1135	KIGAM	336
Challenger Geoinstruments Ltd. (CGL)	301	Freeman Service Desk	2117	Kyoto University	807
Chemostrat, Inc	1801	Gathering Place	659	Land Seismic Noise Specialists, LLC	1113
Chevron	656	GEO EXPRO	850	LIM Technology	1836
China Oilfield Services Limited	1601	GeoCare Benefits Group Insurance	652	LMF (Leobersdorfer Maschinenfabrik GmbH)	1046
Coastline Exploration Limited	304	Geochemical Insight	1946	LUMINA GEOPHYSICAL	1823
Cognitive GeoInterpretation Inc.	340	GeoEdges Inc	1940	Luxoft	237
Colorado School of Mines	1834	Geoex MCG	1339	Mackay School of Earth Sciences & Engineering	853
ConocoPhillips	654	GeoExMachina	342	Marine Magnetics Inc.	1838
Core Laboratories	808	Geo-Link, Inc.	1244	MicroSeismic	1409
DataLog & GeoVision	701	Geological Society of America	801	MIND Technology, Inc.	1509
DeepWave Consortium	1049	Geomap Company	1749	Ministry of Natural Resources Belize	547
		GeoMark Research	300		

Promote your business by exhibiting at IMAGE '24!

IMAGE '23 exhibitors looking for the best available booth location for next year's event should be sure not to miss your rebooking appointment in the Sales & Rebooking Office, booth #2002. Every exhibitor received an email and booth drop with your scheduled appointment time. If you're not a current exhibitor but interested in becoming one please make your way to the Exhibitor Rebooking Office as well. We're happy to discuss your interest in future participation and will open booth selection to new companies on Thursday afternoon.



EXHIBITOR	BOOTH	EXHIBITOR	BOOTH	EXHIBITOR	BOOTH
Ministry of Science, Energy, Telecommunications and Transport	449	Rock Flow Dynamics	331	Subsurface Clarity, LLC	243
Mount Sopris Instruments	1941	Rogii Inc	1717	Subsurface Consultants & Associates, LLC (SCA)	206
Nanometrics	947	RPS	906	subsurfaceAI Inc	1616
NAPE Expo	1847	S&P Global Commodity Insights	723	Talus Technologies Inc	1210
National Compressed Air Canada Ltd	909	SAExploration	633	TDI-Brooks	847
Near Surface Theater	2139	SambaNova Systems	1111	Tech Limit	1747
Neuralog	707	Sander Geophysics Ltd	1247	TEECsolutions, LLC	1009
New England Research, Inc	1003	Sandia National Laboratories	2036	Teledyne Marine	2038
Nova Scotia	450	Scintrex/Micro-g LaCoste	1936	Telemark Energy Services LLC	1840
NuTech	1050	SDI	641	TEMCompany	2025
OCEANEERING International	2027	Seagate Technology	231	TERRASYS Geophysics	1112
Oklahoma State University	809	SEAMAP a MIND Technology Business	1509	Texas A&M University	1846
One-Geo	1649	Searcher Seismic	507	Texas Christian University	1739
ONHYM Morocco	446	Seequent	752	TGS	1501
OptiSeis Solutions Ltd	1808	SEG	155	The University of Texas Jackson School	501
Orica	1609	SEG EVOLVE & Field Camp Posters	561	Thermo Fisher Scientific	907
Ovation Data	514	SEG Foundation	153	TRICON Geophysics	901
PaleoTex, LLC	914	SEG Foundation Lounge	151	Trinidad and Tobago Ministry of Energy and Energy Industries	560
Paragon Geophysical Services, Inc	951	Seismic Source Co	1000	Troika	1119
Penguin Solutions	802	Seismological Society of America	952	U.S. Geological Survey (USGS)	750
PERUPETRO S.A.	452	SeisWare Inc	1817	Union Geofisica Mexicana (UGM)	648
Petricore	1804	Selman and Associates	1346	University of Kansas Department of Geology/KICC-KICE3	1841
Petrocubic	1145	SensorEra Inc	903	University of Oklahoma	918
Petroleum Agency SA	555	Sercel	1633	U-Pitch Theater	1355
Petroleum Commission - Ghana	331	Sharp Reflections, Inc	1135	Verif-i	1119
Petroleum Experts Limited	1101	SHEARWATER	1300	Vidence	1047
Petrosen E&P	353	Show Management	1903	Vinci Technologies	1811
PetroSkills The Competency Alliance	1457	SimTech	804	VSProwess	1349
PetroStrat, Inc	1646	SINOPEC Geophysical Corporation	121	Weihai Sunfull Geophysical Exploration Equipment	1108
Petrosys	919	SISPROBE@EGIS	1839	WellSight Systems Inc	1212
PGS	520	SLB	1217	Western Colorado University	1848
Planet	1648	SmartSolo Scientific	307	Wildcat Technologies, LLC	1104
Poster Assistance Desk	1949	Society of Sedimentary Geology SEPM	347	Xcalibur MPH (U.S.) Inc	1246
Poster Sessions	1551	Sonardyne	647	XtremeGeo, LLC	1045
Premier Corex	1806	Sound Oceanics - Seisgadget	1917	Zeiss Microscopy	1916
PXGEO	1417	Sound QI Solutions Ltd	2031	Zhaofeng Sensor Equipment Co., Ltd	1448
Qeye	1800	Southwest Research Institute	306	Zonge International, Inc	2040
R.T. Clark Co. Inc	1933	Staatsolie Maatschappij Suriname N.V.	458	Z-Terra Inc	1447
RadExPro Europe OU	607	State of Alaska Division of Oil and Gas	653		
Raptor Consulting	900	Stone Quilt Design	1547		
Rare Earth Mercantile	848	StratoChem Services North America, Inc	852		
Resolve Geosciences, Inc	1208	STRYDE	1035		
RevoChem	1001	Student and Faculty Lounge	660		
		Studio X	341		

Exhibitor Directory

AAPG American Association of Petroleum Geologists#256

PO Box 979, Tulsa, OK 74101, United States
aapg.org
Grant Smith, Product Marketing Specialist
+1 918 584 2555
info@aaapg.org



The American Association of Petroleum Geologists (AAPG) is one of the world's largest professional geological societies. AAPG works to advance the science of geology, especially as it relates to petroleum, natural gas, other subsurface fluids, and mineral resources; to promote the technology of exploring for, finding, and producing these materials in an economically and environmentally sound manner; and to advance the professional well-being of its members. AAPG was founded in 1917 and is headquartered in Tulsa, Oklahoma; currently almost one-third of members live outside the United States.

AAPG Datapages#256

PO Box 979, Tulsa, OK 74101, United States
datapages.com
Eric Jones, Business Lead
+1 800 364 2274



Datapages was the first digital publisher in the industry to aggregate an ever-growing online database of granular scientific intelligence. With information gathered from the largest curated collection from geoscience organizations around the world, Datapages is a one-stop shop for fingertip access to geologic reports, concepts, regional trends, core photographs, seismic lines and type logs across the globe. Get your knowledge from the source.

AAPG Foundation#257

PO Box 979, Tulsa, OK 74101, United States
foundation.aapg.org
Susie Nolen, Programs Team Leader
+1 918 560 2634



Since its inception in 1967, the AAPG Foundation has invested millions in supporting educational and scientific activities in the field of geology. By providing grants, scholarships and more to deserving students, educators, organizations and professionals, we've put the generosity of our donors into action all over the world.

ACT-GEO and Geology

Field School..... #904

344 W 22nd St, Houston, TX 77008, United States
act-geo.com
Vitor Abreu
vitor@act-geo.com

We are recognized for our oil and gas consulting, training, career development services and research. We have a global presence and provide consulting and training services to local and international oil and gas companies. We offer high-quality geosciences consulting and training, with strong emphasis in business applications.

AGT.....#1019

990 Richmond Ave Ste 200N
Houston, TX
United States
www.agtgeo.com

Alcatel Submarine Networks#1641

1 avenue du Canada
91940 Les Ulis, France
www.asn.com
communications@asn.com

ASN, part of Nokia, leads the submarine telecom market with 750,000+ km of optical fiber systems. ASN enables digitalization and remote monitoring of offshore assets, including high-bandwidth telecom and subsea asset control (DC/FO). ASN is specialized in monitoring reservoirs, CCS fields, power cables, and pipelines and proposes turnkey projects (EPCI) tailored to customer needs.

Allton#1006

Koppholen 20, 4313 Sandnes, Norway
www.allton.com
Aslak Myklebostad
CEO
+47 915 19 768

Aslak.Myklebostad@allton.com
EM Technology Evolution.

Allton is a Technology and Service company that specialises in subsurface EM acquisition and imaging for E&P, CO₂ Measurement, Monitoring & Verification, and Marine Mineral Exploration. A competency leader in its field, Allton's R&D Team develops new critical EM technologies to meet future energy demands and address climate mitigation challenges.

ALT - ADVANCED LOGIC TECHNOLOGY#1941

30H Rue de Niederpallen, Zoning de Solupla
L8506 Redange, Luxembourg
www.alt.lu
Rien Corstanje, Geologist & Hydrogeologist
+352 28 56 151
info@alt.lu

Mount Sopris and ALT will demonstrate latest features of WellCAD software: Fully integrated Python editor, the improved log layout engine, streamlined data import, and much more. On display we will have the QL40-OBI-2G Optical Televiwer and several data files for viewing. Visit our booth for more information about our diverse family of slimline geophysical logging tools, systems, and software.



ANCAP#451

Av. Libertador S/N esq. Lavalleja
Oficinas Centrales de ANCAP
Gerencia de Transición Energética, Piso 6
Montevideo, Montevideo 11100, Uruguay
exploracionyproduccion.ancap.com.uy
Pablo Rodriguez, M.Eng. Petroleum Engineering
+598 21931
National oil company of Uruguay offering Oil & Gas exploration opportunities in the country.

Applied Acoustics#2032

Marine Park, Gaptown Hall Road
Great Yarmouth, NR31 0NB, United Kingdom
www.appliedacoustics.com
Gavin Willoughby, Business Development Manager
+44 1493 440355
sales@appliedacoustics.com
Applied Acoustics design & manufacture a range of boomer and sparker systems for UHD shallow seismic marine surveys. Complete survey packages are available to include energy & sound sources, full data acquisition spreads and seismic streamer positioning.

Applied Geodynamics Laboratory (AGL)..... #902
Bureau of Economic Geology
The University of Texas at Austin
P.O. Box X, Austin, TX 78713, United States
www.beg.utexas.edu/agl
Michael Hudec, Principal Investigator
+1 512 471 1428, michael.hudec@beg.utexas.edu
We conduct research and provide services in salt tectonics, shale tectonics, and the role of salt in the energy transition.

Aramco.....#833
1200 Smith St, Houston, TX 77002, United States
americas.aramco.com
Saudi Aramco is a world leader in integrated energy and chemicals. We are driven by the core belief that energy is opportunity. We focus on making our resources more sustainable and more useful. This promotes long-term economic growth and prosperity around the world. Saudi Aramco subsidiaries and affiliates have operated in the U.S. for more than 60 years.

ARK CLS..... #1119
Bedford i-Lab, Priory Business Park, Stannard Way
Bedford, MK44 3RZ, United Kingdom
arkcls.com

AspenTech Subsurface Science & Engineering#536
2500 CityWest Blvd Ste 1800
Houston, TX 77042, United States
www.aspentech.com
Carmen Comis, Director, Field Marketing, Americas
info@aspentech.com
Over 30 Years of Technology Leadership in Geophysics, Petrophysics, Geological and Reservoir Modeling solutions for optimization across subsurface engineering and operations. Empower decision makers to reduce uncertainty, improve confidence, minimize risk and support responsible asset management.

Atlas Fluid Controls Corporation...1741
9206 Emmott Rd, Houston, TX 77040, United States

Automated Seismics#1149
18345 Sierra Hwy Ste 7
Santa Clarita, CA 91351, United States
www.autoseismics.com, info@autoseismics.com
Automated Seismics provides services for surface-based passive seismic data acquisition and processing. Enabled by our new WiFi-equipped and solar-powered nodes, we can deliver real-time data for both short and long term projects with an array of 1000+nodes. We specialize in processing data to track microseismic activity across broad applications from hydraulic fracturing to geothermal energy.

AWS.....#337
410 Terry Avenue North
Seattle, WA 98109, United States
aws.amazon.com/energy

Badley Ashton Geosolutions..... #209
Two Riverway 15th Fl,
Houston, TX 77056, United States
www.badley-ashton.com
Nicolas Foote, CCUS Business Leader
+4474644860257
enquiries@badley-ashton.com
A high-quality geoscience consultancy providing specialist reservoir description and prediction advice to the CO₂ storage and oil & gas industries worldwide. With 40+years of scientific excellence, our integrated core and image-based petrographical, sedimentological and structural studies provide an in-depth understanding of reservoir and seal architectures, uncertainties and risks.

Baker Hughes.....#1923
14990 Yorktown Plaza Dr
Houston, TX 77040
United States
www.bakerhughes.com
Corey Davis
Event Marketing Manager
+1 832 390 8641
Baker Hughes is an energy technology company that provides solutions to energy and industrial customers worldwide. Built on a century of experience and conducting business in over 120 countries, our innovative technologies and services are taking energy forward – making it safer, cleaner and more efficient for people and the planet. Visit us at bakerhughes.com.

Baylor University Department of Geoscience..... #805
One Bear Pl #97354,
Waco, TX 76798, United States
www.baylor.edu/geosciences
Stacy Atchley, Professor
+1 254 644 9471
Baylor Geosciences offers Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees. Our department has faculty engaged in research in several areas including Biogeosciences, Petroleum Geosciences, Paleoclimate, Geophysics, and Surface and Hydrological Processes. Please visit our website to find detailed information about our faculty and research programs.

BEICIP INC.....#740
1880 S Dairy Ashford Rd Ste 630
Houston, TX 77077, United States
www.Beicip.com
Felipe Medellin, CEO / General Manager
+1 281 216 2163
info.houston@beicip.com
BeicipFranlab and its subsidiary affiliates provides technical consulting services cover Basin Modeling to Reservoir Simulation and Production Optimization including, IOR and EOR. We provide a full software portfolio from Basin Modeling, Forward Stratigraphic Modeling, Seismic Inversion, Geostats, Fracturing, and other geological tools to enable full collaboration within all disciplines.

Beijing Orangelamp Geophysical Exploration Co.,Ltd.....#1251
Qiyeshu Building 22# , Heying Rd. 8#,
Nanshao Town, Changping Dist., Beijing China
Beijing, Beijing 102200, China
www.orangelamp.com.cn
Xu Yuling, Business Manager
+86 56929901
info@orangelamp.com.cn
A company located in Beijing China, engaged in selling geophysical instruments, Geophysical survey equipment R&D, providing geophysical field survey services etc.

Beijing Petrosound Technology Co Ltd #1350
Room 1202, Jintai Fudi Building
9 West Anning Zhuang Road, Beijing, China
www.petrosound.cn

Bell Geospace#1014
400 N Sam Houston Pkwy Ste 325
Houston, TX 77060, United States
www.bellgeo.com
Julianne Sharples, International Marketing
+1 281 591 6900  BellGeospace
info@bellgeo.com
Airborne geophysical exploration with advanced FTG technology. After a data acquisition survey is efficiently planned and completed, Bell Geo's proprietary processing and interpretation tools are put to work. We extract maximum value from the ultra-precise, Full Tensor Gravity Gradiometry and magnetic data. Subsurface models are enhanced, geoscientists gain increased confidence.

BGP Inc.....#1433
No.307, Fanyang Zhong Road
Zhuozhou, Hebei 72751, China
www.bgp.com.cn
Yanlin Huang, Vice President, BGP International
+86 312 3737449
BGP is a worldwide leading geophysical solution provider which offers a comprehensive range of leading-edge geophysical products and quality services to the energy industry. It has an operating footprint covering over 80 countries and regions and enjoys a customer base in excess of 300 oil & gas companies.

Blackriver Software Solutions#1148
10700 Richmond Ave Ste 143
Houston, TX 77042, United States
www.blackrivergeotech.com
Jun Zhu, President and Principal Geoscientist
+1 832 532 4474
jzhu@blackrivergeotech.com
Blackriver Software Solutions provides geoscience software solutions and services to our customers. We offer cost-efficient and powerful GES software for complete geological evaluation and best-in-class reservoir modeling. GES integrated software features many intelligent and innovative workflows and has excellent compatibility with other mainstream software applications in the industry.

Exhibitor Directory (continued)

Bluware#330

16290 Katy Fwy Ste 400
Houston, TX 77094, United States
bluware.com
Alexandra Maxwell, Marketing Manager
+1 713 335 1500, info@bluware.com
Bluware increases E&P workflow productivity through cloud solutions and deep learning, so geoscientists can deliver faster and smarter decisions about the subsurface.

bp.....#746

501 Westlake Park Blvd
Houston, TX 77079, United States
www.bp.com
At bp, we're reimagining energy for people and our planet. With operations working across almost every part of the energy system, we're leading the way in reducing carbon emissions and developing more sustainable methods for solving the energy challenge. Our geoscientists, petrophysicists and engineers work as part of a collaborative team on offshore, deepwater and onshore oil and gas projects.

Bruker AXS LLC.....#705

5465 E Cheryl Parkway
Madison, WI 53711, United States
www.bruker.com

C&C Reservoirs.....#601

13831 Northwest Fwy Ste 450
Houston, TX 77040, United States
www.ccrepositories.com
Kieran Tatschner, Marketing Coordinator
+1 713 776 3872, info@creservoirs.com
C&C Reservoirs' Digital Analogue Knowledge System (DAKS™) is a secure, cloud-based, asset-centered, knowledge platform designed to improve decision quality and drive value throughout the E&P lifecycle. DAKS combines in-depth Reservoir Evaluation and EOR Reports, powerful analytical and portfolio analysis tools, a holistic classification scheme and an expansive reservoir knowledge base.

Carbon Management Theater#100

Cegal, LLC.....#215

12140 Wickchester Ln Ste 502, Houston, TX 77079
United States
www.cegal.com
Jonathan Horn Gulliksen, Manager Sales
+1 832 451 8803,
jonathan.horn.gulliksen@cegal.com
Cegal is a tech company delivering leading industry software, world-class consulting, and critical cloud solutions. With 850+ employees in 9 countries, we are growing to become a leading global technology powerhouse for the energy industry and a contributor to the green transition. Cegal offer a mature and extensive suite of plug-ins for Petrel, which allows you to enhance and optimize key workflows.

CGG.....#1622

10300 Town Park Dr
Houston, TX 77072, United States
cgg.com
CGG is a global technology and HPC leader that provides data, products, services and solutions in Earth science, data science, sensing and monitoring. Our unique portfolio supports our clients in efficiently and responsibly solving complex digital, energy transition, natural resource, environmental, and infrastructure challenges for a more sustainable future.

Challenger Geoinstruments

Ltd. (CGL)#301

22 Kangzhuang Rod. Wanda Industrial Park
Development Zone
Zhoushou, Hebei 072750, China
www.changdiwuatan.com

Chemostat, Inc#1801

3760 Westchase Dr,
Houston, TX 77042, United States
www.chemostratus.com

Chevron#656

1400 Smith St
Houston, TX 77002, United States
www.chevron.com
Lanette Marcha, Senior Exploration Earth Scientist
+1 925 842 1000
Chevron is one of the world's leading integrated energy companies. We believe affordable, reliable, & ever-cleaner energy is essential. Chevron produces crude oil & natural gas, manufactures transportation fuels, lubricants, petrochemicals, & additives, develops leading technologies, & focuses on lowering carbon intensity in our operations while growing our lower carbon & traditional business lines.

China Oilfield Services Limited...#1601

1581# Haichuan Road, Haiyang New and Hi-Tec
Development Zone
Tianjin 300459, China
www.cosl.com.cn
China Oilfield Services Limited (COSL-Geophysical) is an important power in China's marine seismic and Geophysical & Geotechnical survey services. serving China's offshore oil & gas exploration and development market, and providing high-quality integrated services in marine seismic evaluation design, acquisition, data processing and interpretation for global customers.

Coastline Exploration Limited.....#304

The Clocktower Building
3401 Allen Pkwy,
Houston, TX 77019, United States
www.coastlineexploration.com
+1 281 468 2136
info@coastlineexploration.com
Coastline Exploration is an upstream oil and gas exploration and production company. Coastline Exploration is working in partnership with the Somali Government exploring for hydrocarbon resources offshore Somalia to develop the oil and gas industry for the benefit of the Somali people. We own 100% WI in seven PSAs covering approximately 35,000 km².



Cognitive GeoInterpretation Inc.... #340

3697 Longfellow Rd
Tallahassee, FL 32311, United States
www.interpretation.ai
John Adamick, CEO
+1 713 818 9035, john@interpretation.ai
CGI is a tech startup with the vision to develop new and better E&P interpretation workflows through the use of Artificial Intelligence. Through our Interpretation.ai platform, we use AI to aid in both visualization and interpretation of extremely large data sets. Over the next 5 years, CGI aims to change how exploration is done and make positive inroads into other applications that rely on seismic data for the discovery of natural resources.

Colorado School of Mines.....#1834

1500 Illinois St
Golden, CO 80401, United States
www.mines.edu
Come visit Geophysics and Geology/Geological Engineering at IMAGE 2023 to learn more about our graduate programs, what's new in our departments, and how you can make a difference in the lives of our students! We love to chat with alumni, so swing on by!

ConocoPhillips#654

925 North Eldridge Pkwy
Houston, TX 77079, United States
www.conocophillips.com

Core Laboratories..... #808

6316 Windfern Rd,
Houston, TX 77040, United States
www.corelab.com
Lindsay Roe, Director - Digital Innovation
+1 713 328 2673, ps.info@corelab.com
Core Laboratories is a leading provider of proprietary and patented reservoir description and production enhancement services and products that enable our clients to optimize reservoir performance and maximize hydrocarbon recovery. With over 70 offices in more than 50 countries, Core Lab provides its services to the world's major, national and independent oil companies.

DataLog & GeoVision#701

5811 Irvington Blvd
Houston, TX 77009, United States
www.dl-gv.com
Jackie Palmer, CEO
+1 888 938 7393
info@dl-gv.com

DataLog provides reliable mud logging services, accessible day or night, for operations geologists. GeoVision specializes in precise geosteering, offering valuable insights and a fresh perspective to oil companies. Together, we deliver comprehensive expertise for successful oil and gas operations. FIELD TESTED. FUN-LOVING.

DeepWave Consortium #1049

4700 King Abdullah University of Science and Technology
Thuwal, Makkah 23955-6900, Saudi Arabia
deepwave.kaust.edu.sa
Christos Tzivanakis, Research Specialist
+966 128080281
deepwave@kaust.edu.sa

DeepWave is an industry funded research consortium focused on the application of machine (deep) learning to wave-equation-based processing, imaging, and inversion.

The application of these techniques extends to objectives ranging from global Earth discovery, to natural resources exploration, to subsurface monitoring as well as non-destructive testing and medical imaging.

Delft Inversion..... #1004

Paardenmarkt 1, 2611PA Delft, Netherlands
www.delft-inversion.com
Panos Doulgeris, Managing Director
+31 68 18 77 904

Maximize Value in your Projects with Delft Inversion and Helios! Our advanced wave equation based inversion technology empowers exploration by delivering unparalleled insights from your seismic data. Benefit from precise reservoir characterization that enables informed drilling and production strategies while you unlock hidden reserves, reduce uncertainty, and enhance overall project economics.

dGB Earth Sciences#1737

12946 Dairy Ashford Rd Ste 220
Sugar Land, TX 77478, United States
www.dgbes.com
+1 281 240 3939
info@dgbes.com

dGB continues to bring you innovative seismic interpretation solutions. Our software product OpendTect is an open-source seismic interpretation system which can be extended by unique add-ons for fault analysis, inversion, sequence stratigraphy, and seismic modeling. With our new Machine Learning plugin you have the latest AI workflows at your fingertips.

DGH/UH Center of Hydrocarbon Exploration..... 553

DGH/UH Center of Hydrocarbon Exploration
University of Houston,
Michael Castele, Geoscientist
+1 330 421 4054, mcastele@central.uh.edu
Showcasing two frontier offshore basins on the east coast of India. The Andaman and Mahanadi/Bengal Basins have excellent potential for oil and gas exploration.

Digitalization Theater.....#130

Diversified Well Logging.....#1144

9780 Pozos Ln, Conroe, TX 77303, United States
www.dwl-usa.com
Tracie Walker, VP Sales & Marketing
+1 832 557 9366
traciwalker@dwl-usa.com



Diversified Well Logging, LLC., began its operations in the Gulf of Mexico offshore Louisiana and expanded by moving into land-based operations as the unconventional boom began to take off. Diversified continues to make strides in robotics, automation, artificial intelligence and more, all in the pursuit of better economics for our clients and breakthroughs in the energy sector.

DMT GmbH & Co. KG.....#1939

Am TUV 1, 45307 ESSEN, Germany
www.dmt-group.com
Volker Schape, Geophysicist
+49 201 172 1974
info@dmt-group.com

The DMT Group provides geophysical and geological services and innovative Geo Measuring Systems for active seismic and passive seismic data acquisition (SUMMIT), high resolution imaging and structure analysis of drill cores (CoreScan), multisensor tool for chemical and mineralogical core analysis (Ancorelog) and the most accurate gyroscope in the world (GYROMAT 5000).

DownUnder GeoSolutions.....#322

16200 Park Row Dr Ste 100
Houston, TX 77084
United States
www.dug.com
+1 832 582 3221



DownUnder GeoSolutions (DUG) is a leading, global, seismic services provider, delivering a modern, comprehensive geoscience offering backed by over 20 years of experience & a focus on R&D. With tailored services, software & high performance computing solutions enabling by innovative technology such as Multi-parameter FWI Imaging, DUG helps clients extract maximum value from their seismic data.

Dynamic Aviation Group, Inc.#1013

402 Airport Rd, Office Box 7
Bridgewater, VA 22812, United States
www.dynamicaviation.com
Steve Scates, Business Development Executive
+1 540 383 7209
sscates@dynamicaviation.com

Dynamic Aviation supports commercial/ government missions for aerial data acquisition geophysical surveys. We integrate, deploy, operate, and maintain modified special mission aircraft with complex systems to include but not limited to EO/IR, Radar, FMV Cameras, LIDAR, Digital Mapping Cameras, COMINT, Electromagnetic, Gravity, Magnetics, Radiometrics, Hyperspectral Imagers, Datalinks, SATCOMS.

Dynamic Graphics, Inc.#815

3697 Mt Diablo Blvd Ste 330
Lafayette, CA 94549, United States
www.dgi.com
+1 510 522 0700
info@dgi.com

Dynamic Graphics provides innovative software solutions for operators to optimize returns from oil and gas assets. We offer visual and quantitative solutions, especially focused on mature fields, offshore 4D seismic assets, and unconventional. CoViz 4D: Seismic reservoir monitoring solutions; WellArchitect: Premier 3D well planning; EarthVision: 3D geomodeling for the most complex structures.

EAGE..... #905

Bunnik, Netherlands
eage.org/
EAGE is a professional association for geoscientists and engineers. It is an organization with a worldwide membership of about 19,000 providing a global network of commercial and academic professionals and students. The association is truly multi-disciplinary and international in form and pursuits. EAGE operates three Circles: Oil & Gas Geoscience, Near Surface Geoscience, and Sustainable Energy.

Earth Pulse (Wuxi) Technology Co., Ltd. #1450

Room 1909, Tian'e Building C, ipark, Linghu Road 111, Xinwu District, Wuxi, Jiangsu 214115, China
www.earth-pulse.com
Lei Wang, General manager
+86 18811521153
sales@earth-pulse.com



Driven by technological innovation and guided by customer needs, the company jointly builds the geophysical industry ecology. The current product is a exploration node system ANT node, which is small in size, light in weight, low in power consumption, and easy to use. It can be used for global energy exploration, geological disaster monitoring, and underground space detection, etc.

Exhibitor Directory (continued)

Earth Signal Processing Ltd.#1723

1600 715 - 5th Ave SW,
Calgary, AB T2P2X6, Canada
www.earthsignal.com
Brendan Smith, Manager of Business Development
+1403 264 8722
brendan@earthsignal.com
Earth Signal, established in 1993, specializes in providing onshore seismic data processing solutions. With 100% proprietary software, we offer a full suite of imaging tools & complete projects ranging from 2D, 3D, 4D Time-Lapse, Converted Wave 3C, VVAZ & AVAZ, Pre-stack AVO inversion, CCS workflows & Pre-Stack Depth Migration. We have an excellent international reputation as the 3D-Merge Experts.

East View Geospatial#1748

10601 Wayzata Blvd
Minneapolis, MN 55305, United States
www.geospatial.com
+1 952 252 1205
East View Geospatial sells professionally sourced and customized maps, charts and geospatial data from global sources: topographic, 3D, DEM, GIS, vector, nautical, aeronautical, geological, scientific, and imagery. Our in-house cartographic production team builds products to exacting standards and creates its own series using a variety of authoritative data to combine and fit any demand.

EasyCopy Company #2023

650 W Bough Ln Ste 150-117
Houston, TX 77024, United States
www.myeasycopy.com
Leslie Friedrich, Business Development Executive
+1 713 954 4848
EasyCopyGraphiX, EasyView and EasyPlot offer solutions for viewing, editing, montage, conversion and plotting of CGM, EFM PDF, and TIFF files of unlimited sizes as single and multiple pages. Montages look professional and precise. EasyCore is an easy-to-use, time-saving solution for sedimentologists, geologists and reservoir engineers interested in using core description data for further analysis.

EDCON-PRJ, Inc#1016

Lakewood, CO 80235, United States
edcon-prj.com
Michael Hall, President
+1 303 980 6556
Since 1970, EDCON-PRJ is recognized world-wide as an innovative, quality-driven provider of gravity, magnetic, and radiometric data collection, processing, and interpretive services. Airborne/Land/Marine data acquisition; data library; data processing; interpretations; equipment rentals.

EDGE Systems#915

33502 TX-249,
Houston, TX 77362
United States
edgelog.com
Seth Johnson, VP Business Development
+1 337 356 7269
sjohnson@edgelog.com
The industry leader for Geological Services.



Eliis#733

1980 Post Oak Blvd Ste 100
Houston, TX 77056, United States
www.eliis-geo.com
Eliis delivers innovative solutions in earth sciences for a better understanding of the subsurface through the development of PaleoScan™, a new generation of geoscience software, which pushes the analysis of seismic data to an unprecedented level of geological expertise by combining artificial and human intelligences, bringing together the automation provided by software and the expertise of geos.

EMGS#1709

1138 Princ St, Houston, TX 77088, United States
emgs.com

ENAGEO, Entreprise Nationale de Géophysique#314

BP 140 Zone Industrielle Hassi-Messaoud
Ouargla, 30500, Algeria
www.enageo.com

Energy Geoscience Institute#702



423 Wakara Way Ste 300
Salt Lake City, UT 84108, United States
egi.utah.edu/
Carol Smith
Administrative Officer
+1 801 587 8538
carol.smith@egi.utah.edu
Energy & Geoscience Institute (EGI) is a University of Utah research institute specializing in sustainable energy and mineral production. By partnering with EGI, you and your company are investing in science, technology, and innovation, we can build a more resilient energy future for us all.

Engenius Software#1109

4 Arbor St, Alphington, Vic 3079, Australia
survopt.com
Marcus van Jager
Commercial Manager
+61390163455
support@engenius.com.au
Engenius Software has developed SurvOPT, Seafloor Planner and QuickPlot Pro, software solutions in marine logistics, route planning, cost estimation, and risk management for the oil and gas exploration industry. With a focus on efficiency and optimization, our team is dedicated to simplifying complex problems and delivering tailored software solutions that streamline operations and maximize results.

Entec Evotec AS #1209

Storeholveggen 9, Ulsteinvik, 6065, Norway
entec.no

Envoi Limited#559

Old Stables House, 1d Manor Road
London, W13 0LH, United Kingdom
www.envoi.co.uk
Martin Riddle, Technical Director
+44(0)20 8566 1310
deliver@envoi.co.uk
Envoi is a specialist independent A&D advisory group based in London, which assists oil and gas companies facilitate the buying and selling of international upstream energy opportunities. Services include the marketing and management of farmouts & production sales, and an 'eyes and ears' service to help clients identify new international opportunities.

ETAP#557

54 Avenue Mohamed V - Tunis
Tunisia, Tunis 1002, Tunisia
www.etap.com.tn
ElKods ElChahtou, Head of Marketing Department
promotion@etap.com.tn
ETAP is the Tunisian Company for petroleum Activities "Entreprise Tunisienne d'Activités Pétrolières".

The national oil company was created by law n° 72-22 of 10th March, 1972 in order to manage the exploration and production of oil and gas on the behalf of the Tunisian State.

Exhibitor Lounge #2000

Exhibitor Rebooking/Sales Office#2002

ExxonMobil #650

PO Box 4778, Houston, TX 77210, United States
corporate.exxonmobil.com

Fairfield Geotechnologies#1423

9811 Katy Fwy Ste 1150
Houston, TX 77024
United States
fairfieldgeo.com
Brian Adams, VP, Marketing
+1 832 221 6546
badams@fairfieldgeo.com



Privately held Fairfield Geotechnologies is a leading provider of high-resolution multi-client seismic data and services in the United States. Combining market-leading subsurface reflectivity and signal imaging techniques with strategic partnerships, Fairfield Geotechnologies delivers a superior 3D seismic solution for developmental exploitation in key U.S. oil and gas geographies.

Falmouth Scientific Inc.#1100

33 Jonathan Bourne Dr
Pocasset, MA 02559
United States
www.falmouth.com
Fred Hegg,
V. P. of Business Development
+1 508 564 7640
sales@falmouth.com



Falmouth Scientific Inc. manufactures the HMS-620 Bubble Gun family of products. These are unique bubble-less seismic sources that can operate in a broad range of marine environments. The Bubble Guns perform surveys in waters from 1m in depth to 1000+meters. The Bubble Gun systems can operate in the ocean, inland rivers, and lakes with no change in the acoustic signature or system configuration.

FGPS#1119

95b Hanover Terrace
Brighton BN2 9SP, United Kingdom
www.fgps.com

Food Court#2100**FOSINA#1811**

23 rue du Port, 75016 Nanterre, France
fosina.fr
Alexis Constantinou, CEO
contact@fosina.fr
FOSINA offers a disruptive fiber optic sensing solution allowing DAS, DTS, DTGS & DSS measurements from a single interrogator. Our 30+ years expertise extends from custom design to commercialization of solutions with leading performances for harsh environments (offshore/land) such as seismic acquisition, CCUS monitoring, SHM, pipeline, umbilical & power cables integrity monitoring, and well monitoring.

Fraunhofer ITWM#1135

Fraunhofer-Platz 1, 67663 Kaiserslautern,
Rhineland Palatinate, Germany
www.itwm.fraunhofer.de/en/hpc
Norman Ettrich
Member of the Division Management »High Performance Computing«, Team Lead Seismic
+49 631 31600 4626
norman.ettrich@itwm.fraunhofer.de

The division High Performance Computing (HPC) presents seismic imaging algorithms and seismic data processing tools using machine learning. It offers services for code optimization and parallelization.

- GRT: True amplitude angle gather migration for full azimuth data
- DFI: Diffraction imaging for deep and near-surface seismic
- DLseis: Deep learning for seismic processing and well data analysis

Freeman Service Desk#1663**Gathering Place.....#659**

www.imageevent.org
This unique, laid-back Gathering Place will be a hot spot for all attendees at IMAGE event! In addition to interesting topics hosted by industry podcasters like the Digital Wildcaters, there will be a staffed "cash" bar serving adult beverages throughout the day.

GEO EXPRO.....#850

Trollkleiva 23, 1389 Heggedal, Viken, Norway
www.geoexpro.com
Ingvild Ryggen Carstens
Publisher & Managing Director
+4797469090
ingvild.carstens@geoexpro.com
GEO EXPRO - The Global Energy Sector from a Subsurface Perspective

We report on subsurface news, trends and developments from the global energy sector. That means oil and gas, but also deep and shallow geothermal, energy storage and CCS. We keep an eye on new technologies and deep-sea minerals as well.

GeoCare Benefits Group Insurance#652

PO Box 9159, Phoenix, AZ 85068, United States
www.geocarebenefits.com
Mona Grisafe-Oen, Account Manager
+1 800 337 3140
geocarebenefits@agia.com
The GeoCare Benefits Insurance Program is a unique group insurance program designed to meet the specific needs of earth science professionals. The Program is managed by a Committee on Group Insurance working to ensure that the Program provides quality insurance coverage and benefits with exclusive member rates. Products include group life, medical, disability, homeowners and auto, and more

Geochemical Insight.....#1946

1334 S Elizabeth St,
Denver, CO 80210, United States
Geochemicalinsight.com
David Seneshen, President
+1 303 249 2814
dseneshen@gmail.com
Geochemical Insight designs, implements and reports on geochemical exploration surveys to reduce risk in the search for helium, hydrogen, hydrocarbons and critical minerals (e.g., uranium). The geochemical data are integrated with geological and geophysical data to explain the source of geochemical anomalies and instill more confidence in the results. Please come by our booth (#1946) to learn more.

GeoEdges Inc.....#1940

1440 510 - 5th Street SW
Calgary, AB T2P 3S2, Canada
Rick Jame, VP
+1 403 263 0594
GeoEdges Inc. is a Calgary-based company involved in the creation and licensing of digital geological maps for the petroleum exploration and development industry. From the Western Canada Basin, GeoEdges Inc. has expanded its dynamic, regional library of digital maps to all corners of North America and beyond.

Geoex MCG.....#1339

9525 Katy Fwy Ste 495
Houston, TX 77024, United States
www.geoexmcmg.com
+1 281 888 1535
info@geoexmcmg.com
Geoex MCG is a global subsurface data provider, offering high-quality geophysical products and services to the energy industry. The core of our activities lies in identifying attractive areas for the exploration of natural energy resources and the design of geoscientific surveys. We procure data and services suitable for oil & gas exploration, CCUS, natural hydrogen, solar farms, and more.

GeoExMachina#342

3514 Shadow Bayou Ct
Houston, TX 77082, United States
http://www.geo-ex-machina.com

Geo-Link#1244

PO Box 1764, Red Lodge, MT 59068, United States
geo-link.net
Jed Adams,
+1 406 446 3654
j_adams@geo-link.net
Geo-Link is a full-service geological consulting company providing geological services to the Oil & Gas Industry throughout the U.S. For a well steered future, choose Geo-Link.

Exhibitor Directory (continued)

Geological Society of America#801

3300 Penrose Pl
Boulder, CO 80301, United States
www.geosociety.org
David Shreve
Member and Customer Services Manager
+1 303 357 1004, dshreve@geosociety.org
Founded in 1888, GSA is a global scientific society with members from academia, government, and industry in more than 100 countries. GSA enhances the professional growth of geoscientists at all career levels, encourages cooperative research among earth, life, planetary, and social scientists, fosters public dialogue on geoscience issues, and promotes the geosciences in the service of humankind.

Geomap Company#1749

1100 Geomap Ln, Plano, TX 75075, United States
www.geomap.com
Robert Sparkman, Sales & Marketing Manager
+1 972 578 0571
rsparkman@geomap.com
Geomap is the leading supplier of interpretive geologic maps to the energy industry offering base, production, reference, structure and custom maps. Data used to create and update these maps covers most domestic conventional and resource plays in the lower 48 and is housed in our 50,000+SFT Geological Library and Data Center, the largest and most comprehensive collection of its kind. FREE map drawing!

GeoMark Research #300

9748 Whithorn Dr,
Houston, TX 77095, United States
geomarkresearch.com
Providing quality geochemical and PVT data, from a source you can trust. Science, done right.

GeoMind#407

Havnabakken 24 D, 874 Oslo, Norway
www.geomind.tech
Anders Kihlberg, CEO, +46703102089
anders.kihlberg@geomind.tech
OpenMind - Interactive AI based 3D interpretation workflow. From intuitive and powerful horizon interpretation to volume calculation.

Geometrics, Inc..... #2033

2190 Fortune Dr
San Jose, CA 95131
United States
www.geometrics.com

Geonics Limited #2034

1745 Meyerside Dr Unit 8
Mississauga, ON L5T 1C6, Canada
www.geonics.com
Mike Catalano
Senior Technical Sales Associate, North America
+1 905 670 9580, geonics@geonics.com
Geonics Limited, founded in 1962, designs and manufactures surface and downhole electromagnetic geophysical instrumentation: Ground Conductivity Meters for agricultural, environmental, and geotechnical applications; metal detectors for geotechnical and UXO; time domain electromagnetic systems for mineral exploration and for resistivity sounding.

GeoPartners Ltd #550

29 Farm Street, Mayfair, London,
W1J 5RL, United Kingdom
www.geopartnersltd.com
James Gulland, Director
+44 20 3178 5334
GeoPartners are a London based, highly experienced international company, specializing in providing Geophysical and Geological services to Government Agencies and the International Energy Industry. We provide a full suite of technical services from data acquisition, processing and interpretation through to Licence Round support, technical advisories and full Licence Block management and promotion.

Geophysical Deep Sensing Technology Co., Ltd #1556

Room 102, Building 16, No. 158
Jinfeng Road, High-Tech Zone
Suzhou, Jiangsu, China
www.geodeepsensing.com
Matthew Hughes, Director Business Development
+44 7975 829 456
Matthew.hughes@geodeepsensing.com
GDST design & manufacture innovative seismic acquisition systems. It's flagship product AllSeis is a cable-free, lightweight, cost-effective and highly reliable nodal seismic data acquisition system.

Geophysical Society of Houston.. #806

1790 W Sam Houston Pkwy N
Houston, TX 77043, United States
www.gshtx.org
Kathy Sanvido, Membership & Office Manager
+1 281 741 1624
office@gshtx.org
The GSH encourages and supports scientific, and educational activities to benefit geophysicists. With over 90 technical and social events each year. We host the only dedicated geophysical museum in the Americas and the Bob Sheriff Library, with 4000+titles. The GSH is dedicated to the education of geophysics through STEM, K-12 outreach, scholarships, continuing education, and professional development.

Geophysical Technology

Inc. (GTI)#1447

800 Mulberry Ln
Bellaire, TX 77401
United States
geophysicaltechnology.com
Richard Degner, CEO/Owner
+1 713 659 0248
GTI's NuSeis™ autonomous nodal seismic recording technology enables data acquisition of the highest quality, with unprecedented operating efficiency, and optimal HSE performance, manufactured to the highest quality standards, available for lease or purchase at low cost. GTI's commitment is to continually innovate and deliver highly differentiated geophysical technology.



GeoScienceWorld #800

1750 Tysons Blvd Ste 1500
McLean, VA 22102, United States
pubs.geoscienceworld.org/
Jessica Lawrence-Hurt, Director of Marketing
+1 202 281 0257
lawrence-hurt@geoscienceworld.org
GeoScienceWorld is a nonprofit collaborative and comprehensive resource for research and communications in the Earth Sciences. GeoScienceWorld works with societies, institutions, authors, and researchers globally to create the essential resource for anyone that relies on high-quality, peer-reviewed geoscience content.

GeoSoftware#1716

2000 W Sam Houston Pkwy S Ste 950
Houston, TX 77042, United States
www.geosoftware.com
info@geosoftware.com
GeoSoftware is a global trusted partner for geoscience software and consulting services that enhance subsurface knowledge. We enable the global energy industry to make the most efficient and accurate decisions that responsibly deliver global energy security. The GeoSoftware portfolio includes Jason, HampsonRussell, PowerLog®, and InsightEarth®.

Geospace Technologies#923

7007 Pinemont Dr
Houston, TX 77040, United States
www.Geospace.com
Jorgen Skjott, VP of Sales
+1 713 986 4444
sales@geospace.com
For more than four decades, Geospace has set the standard for engineering and manufacturing incredibly robust, hardened geophysical seismic data acquisition systems that perform in the world's most austere environments. We leverage this knowledge to deliver reliable, cost-effective energy exploration technology solutions.



Geoteric#1239

1080 Eldridge Pkwy Ste 310
Houston, TX 77077, United States
www.geoteric.com
Jonathan Charles, jonathan.charles@geoteric.com
Geoteric's AI seismic interpretation solutions are enabling operators to unlock more from their seismic data. With cases ranging from North American unconventional plays to Deepwater offshore Gulf of Mexico, Geoteric has expansive knowledge of the unique seismic interpretation and characterization problems operators face with asset development, reservoir monitoring, or CCUS project planning.

Getech#1835

16225 Park Ten Pl Ste 500
Houston, TX 77084, United States
Graham Gifford, VP US Operations
+1 713 979 9900, graham.gifford@getech.com
Getech uses AI-driven analytics, GIS & its unique geoscience data to help organizations accelerate the energy transition:

- finding the critical minerals essential to clean energy technologies
- pinpointing high-value geothermal energy potential
- optimizing the location & operation of renewable energy & carbon storage sites
- identifying the highest value hydrocarbons with lowest carbon footprint

Glenair, Inc.#1005

1211 Air Way
Glendale, CA 91201
United States
www.glenair.com
Terry White, Events Manager
+1 818 247 6000
twhite@glenair.com



Protecting investments in sensitive and valuable equipment enabling high-speed subsea cabled data and power transmission. From ruggedized submersible power connectors to glass-sealed hermetics, to high-speed data transmission and cables, our interconnect solutions survive the toughest, deepest, coldest, hottest, and dirtiest application environments for ocean observing and monitoring.

Global Energy Theater#457

GVERSE GeoGraphix#715

6051 North Course Dr Ste 300
Houston, TX 77072, United States
www.gverse.com
Anthony Ford, VP Sales Executive
aford@gverse.com
GVERSE GeoGraphix was founded in Denver, Colorado to build the world's first geoscience software on Windows. It is the latest evolution in G&G software that delivers advanced geological and geophysical interpretation at an exceptional price. Latest release includes cutting-edge features and tight integration in geomodeling and geophysics, fast reservoir characterization, and much more.

Halliburton#615

3000 N Sam Houston Pkwy E
Houston, TX 77032, United States
www.halliburton.com
Maite Rios-Rodriguez,
Marketing Manager, Landmark
+1 281 871 4000
Halliburton is one of the world's leading providers of products and services to the energy industry. Founded in 1919, we create innovative technologies, products, and services that help our customers maximize their value throughout the life cycle of an asset and advance a sustainable energy future.

High Tech Inc.#1701

21120 Johnson Rd
Long Beach, MS 39560, United States
www.hightechincusa.com
Glenn Pollock, Sales
+1 228 868 6632
hightechinc@aatt.net
Experts in rugged marine sensor systems utilized in geophysical surveys, anti-submarine warfare, marine mammal monitoring and downhole applications. Products include data acquisition systems, hydrophones, array cables, pressure vessels and peripherals related to marine systems.

Houston Geological Society#1351

14811 St Mary's Ln Ste 250
Houston, TX 77079, United States
www.hgs.org
Andrea Peoples, Office Director
+1 713 463 9476
andrea@hgs.org
The objectives of the Society are: (1) to stimulate interest and promote advancement in the geosciences; (2) to disseminate and facilitate discussion of geological information; (3) to enhance professional interaction among geoscientists; and (4) to aid and encourage academic training in the geosciences.

HRH Geology#1549

19 Silverburn Place
Bridge of Don
Aberdeen, AB23 8EG,
United Kingdom
www.hrhgeology.comgravitasedge
Dawood Khan, Managing Director
The advent of digital transformation using the cloud has created a unique opportunity to build a new generation of operations geology software for the rig of the future, improving collaboration and productivity. GravitasEDGE has been designed using the latest technology, with users accessing a rich operations geology toolset to manage the geological workflow.



Hydrocarbon Data Systems, Inc... #646

PO Box 41508, Houston, TX 77241, United States
hds-log.com

IKON Mining & Exploration115

IKON Mining & Exploration is a purveyor of natural science specimens for the collector and the child in all of us. Mineral & Fossil specimens from around the world, Meteorite samples from outer space, handcrafted Jewelry with quality gemstones, and a multitude of Nature-related gift items, will be on display. Come to the booth to explore the one-of-a-kind offerings. IKON can also provide unique Executive gifts or presentation pieces, whether it's a single spectacular piece or thousands of samples.

Ikon Science#739

12140 Wickchester Ln Ste 400
Houston, TX 77079, United States
Sue Pritchett, Americas Marketing Manager
+1 713 914 0300
spritchett@ikonscience.com
Ikon Science applies profound scientific expertise and cutting-edge technological innovations. We enable our esteemed clientele to extract invaluable, actionable knowledge from complex subsurface data. This capability has proven instrumental in empowering customers to make informed decisions and take precise actions, that lead to more accurate, fast results, and reduced operational costs.

Imaged Reality LTD.#233

154 Bishopsgate, C/O Mah
London, England EC2M 4LN, United Kingdom
www.imagedreality.com
Claudia Ruiz-Graham, +447786313863
Claudia.RG@imagedreality.com
Imaged Reality develops immersive technologies to help reduce geological uncertainty by bringing together teams and data in the metaverse. We help organisations collaborate and communicate complex environments, improve interpretations and create a better interaction between multi-disciplinary teams, resulting in better decision making and risk reduction in industries such as O&G, Mining and Energy.

Impac Exploration Services.....#600

1501 Lera Dr Ste 3
Weatherford, OK 73096, United States
Impacxs.com
Jameson West, Account Manager
+1 346 718 8614
Impac Exploration Services provides all of your Mudlogging, GeoSteering and GeoScience services needs.

In-Depth Geophysical, Inc.....#749

1660 Townhurst Dr Ste A&B
Houston, TX 77043, United States
http://indepthgeo.com

Exhibitor Directory (continued)

INOVA Geophysical.....#1233

13000 Executive Dr
Sugar Land, TX 77478, United States
www.inovageo.com
Alice Clapp,
Marketing and Communication Manager
+1 832 998 5007
alice.clapp@inovageo.com
We offer a comprehensive portfolio of rugged and reliable seismic instruments that enable geophysical service providers to efficiently design and execute complex land seismic acquisition programs for their clients around the world. Recording systems: G3i NXT and Quantum recording systems
Source products: AHV-IV series, UV2, and TITAN vibroseis vehicles, and source controllers
Accuseis Digital sensors

INP - National Petroleum Institute#548

Rua dos Desportistas, 259-E, Aterro de Maxaquene
Maputo, Maputo 4724, Mozambique
www.inp.gov.mz
Milton Zibane
+258839511000
Milton.Zibane@inp.gov.mz
Investing in Mozambique
As the Regulatory Authority for petroleum operations, our vision is to ascertain that operations are conducted in accordance with laws, regulations and international best practices. With the advent of Energy Transition, natural gas has been declared as the energy for transition. Mozambique deserves to bring more resources to respond to the need of energy transition.

Interactive Network

Technology (INT).....#315

2901 Wilcrest Dr Ste 300
Houston, TX 77042, United States
www.int.com
info@int.com
INT software empowers energy companies to visualize complex subsurface data (seismic, well log, reservoir & more) through a visualization platform (IVAAP) and libraries (GeoToolkit). INT simplifies complex subsurface data visualization in the cloud. We partner with major players such as AWS and OSDU to ensure our visualization is seamless, cloud-ready, and purpose-built.

IRIS Instruments.....#2035

1 Avenue Buffon, BP 6007
Orleans, Cedex 2, France
http://www.iris-instruments.com

Isobar Science.....#1008

4985 SW 74th Ct
Miami, FL 33155, United States
isobarscience.com
Sonia Oberoi, Client Support
+1 305 600 4395
info@isobarscience.com
Isobar Science specializes in complex isotope services for Geochronology, Geochemical Fingerprinting, and Environmental Source-Tracking, providing high-precision research-quality and timely data. Isobar Science performs measurements using multicollector inductively coupled plasma mass spectrometry MC-ICP-MS coupled with laser ablation (LA-)MC-ICP-MS.

ISTI.....#700

64 Woodlawn Ave
Saratoga Springs, NY 12866, United States
isti.com
Peter Devanney
+1 518 602 0001
ISTI ADVANTAGE Seismicity Monitoring Services for real-time operations decision making. Solutions include private array subscriptions, public stations, installation of a dedicated array, or combinations thereof.
A complete package including:

- High-availability data acquisition
- Automatic event detection and notifications
- Event review
- Web portal and API interface to event catalog and data

Katalyst Data Management.....#623

10311 Westpark Dr
Houston, TX 77042, United States
www.katalystdm.com
James Lamb, SVP Sales and Marketing
+1 281 529 3200
james.lamb@katalystdm.com
Katalyst Data Management@ provides the only integrated, end-to-end subsurface data management solution for the oil and gas industry. Over 215 employees operate in North America, Europe, Asia-Pacific, and South America dedicated to enabling digital transformation and optimizing the value of geotechnical information for exploration, production, and M&A activity.

KIGAM.....#336

Gwahak-ro, Yuseong-gu
Daejeon 34132, Korea South
www.kigam.re.kr/english
KIGAM, the World's Best Geoscience Research Institute, leads the Future Earth Research for Global Prosperity and Sustainability.

Kyoto University.....#807

C1-1-112 Kyoto University Katsura
Nishikyo-ku, Kyoto 6158540, Japan
tansa.kumst.kyoto-u.ac.jp
Shiori Kamei, Student advisor
+81 75 383 3196
toiawase@tansa.kumst.kyoto-u.ac.jp
We are a geophysics laboratory in Kyoto University, Japan. We cover various geophysical topics and look forward to seeing you discuss our latest research results.

Land Seismic Noise

Specialists, LLC.....#1113

1127 Auraria Pkwy Ste 201B
Denver, CO 8020, United States
www.landnoise.com
Sissy Theisen, President
+1 720 213 6635
info@landnoise.com
LSNS is a seismic imaging company using proprietary signal recovery technology to improve data and increase the accuracy of QI work. Besides time and depth imaging we have extensive survey merging experience, best in industry VVAZ & AVAZ, and reservoir & interpretation services. We also do acquisition optimization which uses our proprietary methodology and optimization algorithms for survey design.

LIM Technology.....#1836

26 Lenox Pointe NE
Atlanta, GA 20324, United States
www.lim.eu/solution-pour-exploration?lang=en
François Simand, Sales Engineer
+1 404 661 5299
francois.simand@lim.eu
LIM Logging is a world leader in manufacturing slimhole geophysical logging equipment such as Optical and Acoustic Telemetry for borehole imaging but also a full range of probes for hydrogeology and exploration: Sonic, Resistivity, Conductivity, etc. LIM is also providing solutions for Measurement While Drilling (MWD): record of drilling parameters geotechnical reports and drill fleet management.

LMF (Leobersdorfer Maschinenfabrik GmbH).....#1046

Suedbahnstrasse 28
A-2544 LEOBERSDORF, Austria
www.lmf.at
Joachim Winter
Director Sales and PM Seismic Compressors
+43 2256 9001 317
sales@lmf.at
LMF has been manufacturing high-pressure compressor systems for marine seismic surveys for more than 40 years. LMF's continuity and the experience of more than 700 installations on seismic research vessels worldwide is reflected in the most reliable seismic compressor portfolio available on the market.

LUMINA GEOPHYSICAL#1823

26009 Budde Rd Ste A200
The Woodlands, TX 77380, United States
WWW.LUMINAGEO.COM
CESAR BOLIVAR
GOBA BUSINESS DEVELOPMENT MANAGER
+1 832 785 7335
CESAR.BOLIVAR@LUMINAGEO.COM
Lumina was founded by a team of highly recognize and qualified professionals with enviable success with clients ranging from small independent operators to super Majors and NOCs. From data acquisition to engineering, drilling, and completion, Lumina's tailored solutions empower you to make the right decisions at the right time. With a fully integrated portfolio of services,

Luxoft.....#237

600 Fifth Ave, New York, NY 10020
United States
www.luxoft.com

Mackay School of Earth Sciences & Engineering#853

1664 N Virginia St
Reno, NV 89557
United States
www.unr.edu/mackay

Marine Magnetics Inc.#1838

135 Spy Court, Markham, ON L3R 5H6, Canada
www.marinemagnetics.com
Gina Lopez, Sales Manager
+1 619 655 0179
gina.lopez@marinemagnetics.com
Headquartered in Toronto, Canada, with an office in California, we design and manufacture the only Overhauser Magnetometers for use worldwide. Our 22+ year success is rooted in the combination of Technology and Design, that takes the user experience into account. We've researched the conditions in which they must perform. We're realists: Accidents happen. Our systems are built to survive them.

MicroSeismic #1409

10777 Westheimer Ste 250
Houston, TX 77042, United States
www.microseismic.com
We help our clients protect their assets, operations, and the environment, as the world transitions to reliable and secure sources of energy. As our expertise has grown, our vision of monitoring applications now includes CO₂ sequestration, sinkhole detection, enhanced geothermal systems, production and disposal wells, reservoir stimulation, and wellbore stability in tectonically active areas.

MIND Technology, Inc..... #1509

2002 Timberloch Pl Ste 550
The Woodlands, TX 77380
United States
mind-technology.com
Rob Capps, President & Chief Executive Officer
+1 281 353 4475
MIND TECHNOLOGY provides technology to the oceanographic, hydrographic, defense, seismic and security industries. Headquartered in The Woodlands, Texas, MIND has a global presence with key operating locations in the United States, Singapore, Malaysia, and the United Kingdom.

**Ministry of Natural Resources****Belize #547**

Geology and Petroleum Department
Market Square, Belmopan, Cayo, Belize
gpd.gov.bz

Ministry of Science, Energy, Telecommunications and Transport . #449

36 Trafalgar Road, Kingston, 10, Jamaica
www.mset.gov.jm/
Raymond Thompson, Director, Oil and Gas
+8769298990
rthompson@mset.gov.jm
Provide the legal and policy framework that guide innovation and development in the science, energy and technology sectors to fuel growth.

Mount Sopris Instruments#1941

4975 E 41st Ave
Denver, CO 80216
United States
www.mountsopris.com
Hanna Flamme, Geophysical Engineer
+1 303 279 3211
sales@mountsopris.com
For IMAGE 2023 Mount Sopris and ALT will demonstrate latest features of WellCAD Image & Structure Interpretation software and CORECAD latest enhancements. On display will be the latest model QL40-OBI-2G-UV Optical Televiwer and several data files for viewing. Visit our booth for more information about our diverse family of slimline geophysical logging tools, systems, and latest WellCAD software.

**Nanometrics#947**

3001 Solandt Rd
Kanata, ON K2K2M8
Canada
www.nanometrics.ca
Krista Colby Wheatley, Director of Marketing
+1 613 898 2481
With over 37 years of seismic technology and industry application experience, we are a global, award-winning company providing monitoring solutions and equipment for studying artificial and natural seismicity. Specializing in collecting and analyzing critical real-time data for global, regional, and local seismic networks, we deliver world-class network design, installation, and monitoring services

**NAPE Expo#1847**

800 Fournier St
Fort Worth, TX 76102, United States
napeexpo.com

National Compressed Air**Canada Ltd. #909**

6890 Davand Dr
Mississauga, ON L5T 1J5, Canada
Pran Kirtani, Director (Sales)
+1 905 897 9800
info@nationalcompressedair.com
World leader in compressor packages/drill rigs/ track carriers for exploration/production drilling. Configurations include helicopter portable/man portable comp/track carriers/trailer or skid mount/screw compressors to 500 psig/booster compressors to 5000 psig/exploration drill rigs/ offshore high-pressure compound air compressor land seismic systems to 3000 psig for high-pressure air-gun applications.

Near Surface Theater#2139**Neuralog#707**

4800 Sugar Grove Blvd
Stafford, TX 77477, United States
www.neuralog.com
+1 281 240 2525
sales@neuralog.com
Neuralog offers practical, intuitive solutions to work with legacy and modern well log data. From data capture, preparation, and evaluation to management and delivery, Neuralog increases your personal and organizational productivity to help you "turn paper into petroleum."

New England Research, Inc. #1003

331 Olcott Dr
White River Junction, VT 05001, United States
ner.com
Laurent Louis, Principal Scientist
+1 281 731 9532
NER provides equipment and test protocols that address reservoir characterization and engineering challenges in both conventional and unconventional reservoirs at in situ conditions of stress, pore pressure, and temperature. NER also offers a unique petrophysical and chemical core profiling capability allowing rapid high resolution material characterization for rock typing and core-to-log integration.

Nova Scotia Department of Natural Resources and Renewables..... #450

1690 Hollis St 12th Floor, Halifax, NS, Canada
energy.novascotia.ca

Exhibitor Directory (continued)

NuTech #1050

4101 Interwood North Pkwy Ste 250
Houston, TX 77032, United States
nutechenergy.com
Galen Dillewyn, V.P. Business Development
+1 281 812 4030
gdillewyn@nutechenergy.com
NuTech's web-based reservoir characterization platform, IRAD is the solution with thousands of logs and grided property maps in every major basin. Find prospective wells for a custom evaluation, quickly create cross-sections, query 3D geological properties and production by bench, instantly download petrophysics, geomechanics, and regional basin studies. IRAD fills the gaps in your daily workflow.

OCEANEERING International..... #2027

11917 FM 529
Houston, TX 77041, United States
www.oceaneering.com

Oklahoma State University..... #809

105 Noble Research Center
Stillwater, OK 74078, United States
Camelia Knapp, School Head and Professor
+1 405 744 6358
camelia.knapp@okstate.edu
University offering B.S, M.S and Ph.D. degrees. We also have a PSM available.

One-Geo#1649

www.one-geo.com
Ro Shukla, Engineer
Mudlogging mass spectrometer. Get the most comprehensive wellsite mud gas analysis.

ONHYM Morocco #446

5 Avenue Moulay Hassan BP99
Rabat, Rabat BP99, Morocco
www.onhym.comen
Soufyan Azagoune, Event Manager
+212660091641
azagoune@onhym.com
The Office National des Hydrocarbures et des Mines (ONHYM) is the National Oil Company of Morocco. It is a state-owned entity responsible for the exploration, production, and development of hydrocarbon resources in the country. The company is dedicated to promoting sustainable development, technical excellence, and international cooperation in the hydrocarbon sector.

OptiSeis Solutions Ltd. #1808

Calgary, AB T2T1P8, Canada
optiseis.com
Alyson Birce
+1 4038617687
info@optiseis.com
OptiSeis Solutions Ltd. provides innovative geophysical solutions for all subsurface exploration and production projects including energy, critical minerals, carbon sequestration, and geothermal. OptiSeis' EcoSeis platform provides high resolution subsurface imaging and analytics while reducing environmental footprint by 50% and enabling enhanced subsurface imaging, safety, and operational efficiency.



Orica #1609

33101 E Quincy Ave
Watkins, CO 80137, United States
www.orica.com
Jerry Lawson, Commercial Oil & Gas Manager
+1 281 224 8061, jerry.lawson@orica.com
Orica is one of the world's leading mining and infrastructure solutions providers. From the production and supply of explosives, blasting systems, mining chemicals and geotechnical monitoring to our cutting-edge digital solutions and comprehensive range of services, we sustainably mobilize the earth's resources.

Ovation Data #514

14199 Westfair East Dr
Houston, TX 77041
United States
www.ovationdata.com
Jasmine Tran, Vice President Marketing
+1 713 464 1300, solutions@ovationdata.com
Our powerfully integrated platform provides secure, quick access to a rich library of validated data for faster, more insightful decisions. We ensure client assets are preserved, protected & accessible on-demand. We've architected a unique blend of traditional & cloud-based solutions backed by security, performance & immediate access. Rely on Ovation to integrate, automate, & transform your business.



Paragon Geophysical Services, Inc. #951

3500 N Rock Rd Bldg 800 Ste B
Wichita, KS 67226, United States
paragongeo.com

Penguin Solutions #802

45800 Northport Loop W
Fremont, CA 94538, United States
www.penguincomputing.com
Pamela Sherwood, Sr Event Marketing Manager
+1 415 954 2800
sales@penguincomputing.com
Penguin Solutions™ designs highly advanced infrastructure, machines and networked systems. Our solutions are enabling the world's most innovative enterprises and government institutions to build the autonomous future, drive discovery and amplify human potential.

PERUPETRO S.A. #452

Luis Aldana 320, San Borja
LIMA, LIMA 15034, Peru
www.perupetro.com.pe
Vilma Ruiz, Promotion Executive
+511 2061800
vrui@perupetro.com.pe
PERUPETRO S.A. is the State company, on behalf of the Peruvian State and it is responsible for promoting, negotiating, underwriting and monitoring contracts for exploration and exploitation of hydrocarbons in Peru.

Petricore #1804

2703 Highway 6 S Ste 280
Houston, TX 7705, United States
www.petricore.com
Carlos Palavicini
+1 713 370 9511
sales@petricore.com
Petricore offers an extensive suite of Rock Lab Services: Routine Core Analysis, Special Core Analysis (SCAL), and Digital Rock Analysis, in addition to Wellsite Services. Committed to excellence, with specialized teams in USA, Mexico and Norway, our priority is quality and customer care. We provide customized services in close collaboration with clients. Our experts are always keen to assist.

Petrocubic #1145

5850 San Felipe St #500
Houston, TX 77056, United States
petrocubic.com

- Find and hire oil and gas consultants online.
- Use software on-demand from leading vendors with hourly rates in the cloud.

Petroleum Agency SA #555

2nd Floor, Heron Place, Heron Crescent
Century City, Cape Town, Western Cape 7441
South Africa
www.petroleumagency.com
Sean Davids, Divisional Geologist
+27 21 9383500
davidss@petroleumagency.com
South Africa's oil and gas upstream regulator, presenting exploration opportunities. Visit us to see new prospectivity identified in deep water offshore Cretaceous basins and gain new insights into the resource potential of our onshore Karoo Basin.

Petroleum Commission - Ghana ... #551

Plot 4A George W Bush Highway
/www.petrocom.gov.gh

Petroleum Experts Limited..... #1101

Petex House, 10 Logie Mill
Edinburgh, EH7 4HG, United Kingdom
www.petex.com
+44 131 474 7030, edinburgh@petex.com
Petroleum Experts Ltd (Petex) develops Integrated Production Modelling (IPM), structural geology (MOVE) and the Digital Oil Field (DOF) platforms. All the major international oil companies have taken the IPM suite as their corporate standard. The product suites are physics-based modelling tools which are best-in-class and recognised by the oil and gas industry as its global standard.

Petrosen E&P..... # 553

Route du Service Geographique
Hann, Dakar, BP 2076, Senegal
www.petrosen.sn
Arsene Frederic Boissy
+33 839 92 92
fboissy@petrosen.sn



Petrosen E&P is a subsidiary of the National Oil Company responsible for exploration and development activities. It has put in place an ambitious upstream agenda that aims to unlock the full potential of the country's offshore basins, and as such, is inviting regional and global E&P players and financiers to take part in one of Africa's most promising energy markets.

PetroSkills | The Competency

Alliance..... #1457

25403 Katy Mills Pkwy
Katy, TX 77494, United States
www.petroskills.com
Clay Kindred
Director, Marketing and Communications
+1 918 828 2503
training@petroskills.com
With a complete spectrum of solutions, courses and learning tools, PetroSkills develops competent professionals in all technical processes, spanning the industry's entire value chain, worldwide. Just as The Competency Alliance is doing for NetZero and Renewables, PetroSkills connects learning to the workplace, allowing employers to manage and assure the competence of workers at every level

PetroStrat, Inc..... #1646

3760 Westchase Dr
Houston, TX 77042, United States
petrostrat.com
Thomas Demchuk, Business Development Manager
+1 281 660 1491
thomas.demchuk@petrostrat.com
PetroStrat is a Stratigraphic Consultancy that provides a comprehensive suite of integrated geological services to the Oil & Gas industry. We provide subsurface solutions across biostratigraphy and sedimentology/reservoir geology. We offer full service paleontology (micropaleontology, nannopaleontology and palynology) together with sedimentology/reservoir geology services.



Petrosys..... #919

1 Briar Lake Plaza Ste 950, W Sam Houston Pkwy S,
Houston, TX 77042, United States
www.petrosys.com.au
Connor Burt, Geoscientist
+1 348 292 5915, info@petrosys.com.au
Petrosys offers a comprehensive suite of tools across mapping, surface modeling, data management and seismic processing. With a global presence and a proven track record, Petrosys technology empowers clients to make data-driven decisions, reduce risk and enhance data integration. Learn how Petrosys can help you drive success, optimize asset value and boost operational efficiency.

PGS..... #520

Lilleakerveien 4C, 283 Oslo, Norway
www.pgs.com, marketing@pgs.com
PGS is a global geophysical company that gathers offshore survey data and uses vast cloud compute to image the earth. Geophysics is a key enabler for energy security and energy transition. We support the search for affordable and sustainable energy for all. In collaboration with industry, society, and authorities, PGS advances marine subsurface knowledge for evolving energy needs.

Planet..... #1648

645 Harrison St 4 Flr
San Francisco, CA 94107, United States
www.planet.com
Ryan Sison, Field Marketing Specialist
Planet is the leading provider of global, daily satellite imagery and geospatial solutions. Planet is driven by a mission to image all of Earth's landmass every day, making global change visible, accessible and actionable. To learn more visit www.planet.com and follow us on Twitter at @planet.

Poster Assistance Desk..... #1949

Poster Sessions..... #1551

Premier Corex..... #1806

11335 Clay Rd Ste 180
Houston, TX 77041, United States
www.premiercorex.com
Bradi Cruz, Global Marketing Director
+1 713 962 1918, sales@pofg.com
Premier Corex is a global leader in aggregating, generating, and applying rock and fluid data, utilizing it to better understand, explore, and develop earth resources. We have assembled world-class experts, laboratories, and platforms to produce data, make it readily accessible, and help our clients apply it effectively.

PXGEO..... #1417

www.pxgeo.com, info@pxgeo.com
PXGEO is an innovative marine geophysical service provider combining the strengths of ocean bottom node and towed streamer seismic data acquisition techniques to deliver seamless subsurface imaging for a sustainable future.

Qeye..... #1800

407 2nd Street SW 830
Calgary, AB T2P2Y3, Canada
www.qeye-labs.com
Wendell Pardasie, Managing Director
+1 403 617 5031
calgary@qeye-labs.com
Qeye is a geophysical technology company specializing in quantitative interpretation (QI). Our workflows combine measurements and interpretations across disciplines and different scales. We integrate geological interpretations with geophysical measurements and allow our clients to move beyond the elastic domain and hence better understand their reservoirs.

R.T. Clark Co. Inc..... #1933

PO Box 20957
Oklahoma City, OK 73156, United States
www.rtlark.com

RadExPro Europe OU..... #607

Järvevana tee 9-40, Tallinn, 1314, Estonia
radexpro.com

Raptor Consulting..... #900

80 Emerson Ln Ste 1307
Bridgeville, PA 15017, United States
http://www.raptorconsulting.com

Rare Earth Mercantile..... #848

Anna Clark, Owner
+1 405 283 2517
shop@rareearthmercantile.com
Curated rocks, minerals, fossils, natural home decor, and stone jewelry.

Resolve Geosciences, Inc..... #1208

18 Lake View Loop
Fulshear, TX 77441, United States
http://www.resolvegeo.com

RevoChem..... #1001

16203 Park Row Ste 100
Houston, TX 77084, United States
www.revochem.com
Bob Aylsworth, Business Development Manager
+1 281 676 4619, info@revochem.com
RevoChem provides reservoir characterization and monitoring by analyzing geochemical fingerprints from the rock and produced oils to quantify drainage frac height, production allocation, and well communication to optimize field development, improve reservoir prediction, and EOR. We have characterized and monitored over 4,500+ wells throughout North & South America, and around the world.

Exhibitor Directory (continued)

Rock Flow Dynamics.....#331

2200 Post Oak Blvd Ste 1260
Houston, TX 77056, United States

rfdyn.com

Jessica Kalynn

Managing Director, Americas

+1 403 998 9299

rfdsales@rfdyn.com

Promoting cross domain collaboration, tNavigator is a single environment that enables subsurface teams to work together to navigate your reservoir and not lose any time or data by moving between applications. In tNavigator you will find unique integrated workflows from geophysics to reservoir modelling, allowing geoscientists to construct a robust interpretation and reservoir model of their field.



Rogii Inc.....#1717

11750 Katy Fwy Ste 780

Houston, TX 77079

United States

www.rogii.com

support@rogii.com

ROGII provides upstream oil and gas operators with world-class software solutions for real-time analysis, data automation, and operational efficiency for geology, drilling, and completions teams to use on a customized cloud-based platform. ROGII is committed to providing an innovative and customizable suite of applications to multidisciplinary teams as oil and gas continues to evolve.



RPS.....#906

20405 Tomball Pkwy Bldg 2 Ste 200

Houston, TX 77070

United States

www.rpsgroup.com

S&P Global Commodity Insights...#723

1111 Bagby Street Ste 2200

Houston, TX 77024, United States

www.spglobal.comcommodityinsights

Amber Margraves, Marketing Manager

amber.margraves@spglobal.com

S&P Global Commodity Insights® provides benchmarks & assessments, technology & workflow solutions, data & analytics and independent commodity market news that dives deep into market supply and demand trends to plan your next steps.

SAExploration.....#633

13645 North Promenade Blvd
Stafford, TX 77477, United States

www.saexploration.com

Mark Farine, VP Business Development

+1 713 922 8846

SAExploration, a global seismic acquisition services company, offers a full range of geophysical ground acquisition services from design, drilling, recording and field quality. SAExploration also offers marine geophysical acquisition services, specialized in ocean bottom seismic with capacities ranging from tidal zones, transition zones, shallow and deep waters and operating depths of 3,450 meters.

SambaNova Systems.....#1111

2200 Geng Rd Unit 100

Palo Alto, CA 94303, United States

sambanova.ai/

Ronnie Martinez

+1 650 263 1153

ronnie.martinez@sambanovasystems.com

SambaNova customers quickly deploy state-of-the-art AI and computer vision capabilities. Our purpose-built enterprise-scale AI platform is the technology backbone for the next generation of AI computing and overcomes the limitations of legacy technology to power the large complex foundation models that enable customers to discover new services and revenue streams, and boost efficiency.

Sander Geophysics Ltd.....#1247

260 Hunt Club Rd, Ottawa, ON K1V 1C1, Canada

www.sgl.com

Sandia National Laboratories.....#2036

1515 Eubank Blvd SE

Albuquerque, NM 87123, United States

www.sandia.gov

Sandia National Laboratories is operated by National Technology and Engineering Solutions of Sandia LLC, a wholly owned subsidiary of Honeywell International Inc. for the U.S. Department of Energy's National Nuclear Security Administration which has major research & development responsibilities in nuclear deterrence, global security, defense, energy technologies & economic competitiveness.

Scintrex/Micro-g LaCoste.....#1936

222 Snidercroft Rd
Concord, ON L4K 1B5, Canada

scintrex@scintrexltd.com

Bill Male, International Sales Manager

+1 905 669 2280

sales@scintrexltd.com

Scintrex and Micro-g LaCoste are the gravity specialists, having a Gravity Instrument designed with your requirements in mind. A newly redesigned SEAll marine gravity meter provides better accuracy in rougher seas than ever before. Why not do a HybridGravity® survey? With the absolute accuracy of the A10 meter and the speed of the CG 6, larger surveys are completed quicker, lowering costs.

SDI.....#641

3603 Westcenter Dr

Houston, TX 77042, United States

www.sdicgm.com

Tarik Hamedi, Account Manager

+1 713 266 5667

info@sdicgm.com

SDKs and technical graphics integration tools:

APs SDK for Microsoft Universal Print

- Plot well-logs from any application or cloud-native application using Microsoft Universal Print.
- Data Mapper
- Map generation & data presentation
- HTML5 Viewer SDK
- Zero-footprint client-side CGM, PDF, SVG, TIFF, GeoTIFF support

System Development, Inc. enterprise solutions & support.

Seagate Technology.....#231

Kristy DeMarco,

Director, GTM Channel & Verticals

+1 949 463 9899

kristy.demarco@seagate.com

Seagate's Lyve products offer data transfer as a service, perfect for accelerating geophysical data delivery with storage that's built for the edge. Mass-capacity mobile edge storage and data transfer service for your enterprise. Come by our booth to learn more.

SEAMAP a MIND Technology Business..... #1509
 51 Changi North Crescent
 Singapore, Singapore 499626, Singapore
 seamap.com



Mark Welker
 Managing Director
 +65 6545 1054
 sales@seamap.com
 Seamap, a MIND Technology business, designs, manufactures and sells a broad range of proprietary products for the seismic, hydrographic and offshore industry. With engineering, manufacturing, sales and support bases located in Texas, Singapore, Malaysia and The United Kingdom, Seamap is able to respond to customer's needs anywhere in the world 24-hours a day.

Searcher Seismic.....#507

Suite 1, Level 4
 85 South Perth Esplanade,
 South Perth, WA 6151
 Australia



www.searcherseismic.com
 Paul Larsen, VP Sales & Commercial
 +61893270300
 sales@searcherseismic.cm
 Searcher is a leading service provider of multi-client geoscience data and products to global energy and mining companies. In addition to extensive global geophysical and geological data libraries, Searcher offer advanced software products. These web-based platforms include, Seisintel, sAlsmic, and GeoClerk.

Seequent.....#752

860 Homer St Ste 300, Vancouver, British Columbia V6B 2W5, Canada
 www.seequent.com
 Lisa Quattrini, Marketing
 +1 214 846 0657
 Seequent is the subsurface software company within Bentley Systems, the infrastructure engineering software company. Together, we are helping build a more resilient future by connecting the built world above ground with the hidden world below it. We share a vision that connecting software, teams, and data leads to better understanding and ultimately better decisions – for people and the planet.

SEG EVOLVE Field Camp Posters...#561

SEG Foundation.....#153

125 W 15th St Ste 100
 Tulsa, OK 74119
 United States
 foundation@seg.org
 +1 918 497 5515



The SEG Foundation encourages and supports scientific, educational, and charitable activities through the funding of innovative activities and grant programs that benefit geophysicists, their professional community, the Society of Exploration Geophysicists (SEG), and the general public. The SEG Foundation is a 501(c)(3) charitable organization that provides management, reporting and stewardship services that donors require.

SEG Foundation Lounge#151

SEG Society of Exploration

Geophysicists#155

10300 Town Park Dr Ste SE 1000
 Houston, TX 77072, United States
 seg.org

Tania Stephens, Community Engagement Manager
 +1 918 497 4646

tstephens@seg.org
 Inspiring the geophysicists



of today and tomorrow,
 SEG's long-standing tradition of excellence in education, professional development, new business generation, and engagement cultivates a unique community platform that encourages collaboration and thought leadership for the advancement of geophysical science around the world

Seismic Source Co#1000

2391 E Coleman Rd
 Ponca City, OK 74604, United States
 www.seismicsource.com

John Giles, President
 +1 580 762 8233, sales@seismicsource.com
 SSC provides a variety of electronics and software for the seismic exploration. Products include: SourceLink (Acquisition Management), Universal Encoder 3 (Doghouse), Force 3 (Vibroseis), Boom Box 3 (Dynamite), Remote Trigger Module 3 (Impulsive Source), Bird Dog 3 (Geophone, Hydrophone, and Vib Testing), NavLink (GPS Navigation/Tracking), and DAQlink4 (High Resolution General Purpose).

Seismological Society of America...#952

400 Evelyn Ave Ste 201
 Albany, CA 94706, United States
 www.seismosoc.org/

Nan Broadbent, Executive Director
 +1 510 525 5474, info@seismosoc.org
 The Seismological Society of America (SSA) is an international scientific society devoted to the advancement of seismology and the understanding of earthquakes for the benefit of society. We publish three journals – The Bulletin of the Seismological Society of America, Seismological Research Letters and The Seismic Record. We support seismologists through grant programs, mentoring, and conferences.

SeisWare Inc.....#1817

12620 FM 1960 Rd W Ste A-4 # 265
 Houston, TX 77065, United States
 seisware.com

Paige Mamer, Marketing Specialist
 +1 403 218 8029, info@seisware.com
 SeisWare is a provider of integrated geoscience software for geological & geophysical interpretation and field development. Based in Calgary and Houston, with partners globally, SeisWare is known for its intuitive workflows and expert customer support. 2023 marks 25 years since the launch of SeisWare software.

Selman and Associates..... #1346

PO Box 61150
 Midland, Tx 79711
 United States



selmanlog.com

info@selmanlog.com
 With over 40 years of wellsite experience, CHOOSE US for Manned Mudlogging, Remotely Monitored Gas Logging, and Geosteering Services! Well gas is analyzed with our SLIC® or FID instruments, and (optionally): H₂S, CO₂, and/or Mass Spec. Using our own software, we provide Geosteering services with Standardized Report delivery containing multiple 2D/3D views and important actionable information.

SensorEra Inc.....#903

4200 San Jacinto St,
 Houston, TX 77004, United States
 www.sensorera.tech

Sercel#1633

17200 Park Row, Houston, TX 77084, United States
 www.sercel.com

Sandra Parker,
 Executive Assistant- Sales & Marketing
 Sercel is a pioneer in measuring, monitoring & understanding Earth's subsurface to provide high-standard solutions to its customers. Since 1956, Sercel has combined advanced technologies & geoscience to deliver the most precise data. This data-driven approach empowers its customers to make well-informed, confident decisions. If you want to know more, visit <https://www.sercel.com>

Sharp Reflections, Inc.....#1135

1880 South Dairy Ashford Rd Ste 320
 Ashford Crossing II
 Houston, TX 77077, United States

sharpreflections.com
 Jessica Warden, Sales Manager, Americas
 +1 832 235 6437
 jessica.warden@sharpreflections.com
 Sharp Reflections was built on a bold idea—reinvent seismic data processing and analysis. Our software, powered by a high-performance computing engine, provides fast and easy access to enormous volumes of raw processed data. It empowers data processors and interpreters to work together in one space to extract detailed reservoir insight, make trustable drilling decisions and optimize production.

Exhibitor Directory (continued)

SHEARWATER..... #1300

945 Bunker Hill Road Ste 650
Houston, TX 77024, United States,
www.shearwatergeo.com
Reena Ramcharitar
Technical Business Development Manager
By combining technology, innovation and client collaboration at every step from sensor to image, our transparent and flexible approach delivers exceptional geophysical results. Shearwater measures the earth to increase knowledge of our planet for a responsible future.

Show Management#1903

SimTech..... #804

16225 Park Ten Ste 500
Houston, TX 77084, United States
http://www.simtechnology.com

SINOPEC Geophysical Corporation #121

NO.9 Jishikou Road Chaoyang District
Beijing 100020, China, ssc.sinopec.com
Sinopec Geophysical Corporation(SGC) is a wholly-owned subsidiary of SINOPEC Group with a history of more than 70 years. SGC mainly engages in geophysical exploration services including geophysical data acquisition, processing, interpretation, technology research and development, equipment manufacturing, and comprehensive research on reservoir geophysics.

SISPROBE@EGIS.....#1839

EGIS geotechnique, 3 Rue du Dr Schweitzer
380180 Seyssins, France
www.sisprobe.com
Dan Hollis, Director, Business Development
+1 626 818 4979, dan.hollis@sisprobe.com
Sisprobe is a passive seismic services provider. We use ambient seismic noise and seismic events recorded in all seismic arrays to image & monitor the subsurface from a few meters to tens of km depth. Based in France with offices in the USA and Australia, we provide low-cost, environmentally friendly, rapid and reliable surveys for mineral and resource exploration, and infrastructure monitoring.

SLB.....#1217

4646 West Sam Houston Pkwy N
Houston, TX 77041, United States
www.slb.com
Arno van Zyl, Trade Show & Event Manager
+1 713 369 7855
SLB (NYSE: SLB) is a global technology company that drives energy innovation for a balanced planet. With a global footprint in more than 100 countries and employees representing almost twice as many nationalities, we work each day on innovating oil and gas, delivering digital at scale, decarbonizing industries, and developing and scaling new energy systems that accelerate the energy transition.

SmartSolo Scientific.....#307

Unit 145 3901-54 Ave NE
Calgary, AB T3J 3W5, Canada
SmartSolo.com
gary wu
SmartSolo Scientific, We focus on serving scientists and technological innovators. Assistant of scientific research success. Our mission is to help our customers make the world safer, greener and better. SmartSolo Scientific provides customers with leading innovative technology, convenient purchasing solutions and a full range of scientific research services. For more details, please contact us!

Society of Sedimentary Geology SEPM.....#347

1621 S Eucalyptus Ave Ste 204
Broken Arrow, OK 74012, United States
www.sepm.org
Howard Harper, Executive Director
+1 918 808 6985
hharper@sepm.org
SEPM - All about sedimentary geoscience - including memberships, publications, courses, field trips, research conferences and meetings of all sizes. It is SEPM's mission to encourage and disseminate knowledge about sedimentary geoscience through its meetings, publications, and personal networks.

Sonardyne.....#647

8280 Willow Pl Dr
North Ste 130
Houston, TX 77070, United States
www.sonardyne.com
Kim Swords, Technical Sales Manager
+1 281 890 2120
marketing@sonardyne.com
We have been writing the future of underwater technology for over 50 years. We engineer, manufacture, service and support solutions that transform what's possible in offshore energy, maritime defence and ocean science. We own your challenges and deliver on the promises we make.

Sound Oceanics - Seisgadget #1917

3308 Ella Blvd, Houston, TX 77018, United States
www.soundoceanics.com
Peter Sack, Managing Partner
+1 713 357 9501
info@soundoceanics.com
Turnkey seismic services for energy, wind, construction, deep Imaging and any other geophysical need

Sound QI Solutions Ltd.#2031

730 521 3rd Ave SW, Calgary, AB T2P 3T3, Canada
www.sound-qi.com
Laurie Weston, President
+1 403 830 7233
info@sound-qi.com
Sound QI provides services and software for subsurface reservoir and geological prediction. Services include rock physics studies and advanced seismic data analysis, such as AVO and pre-stack inversion, for 2D, 3D, 3C, and 4D data. Our QI-Pro software is a unique visual logic application for the integration, validation, and interactive classification of all data types.

Southwest Research Institute.....#306

6220 Culebra Rd
San Antonio, TX 78238, United States
www.swri.org/industries/geological-services
David Ferrill, Institute Scientist
+1 210 522 6082
dferrill@swri.org
SwRI, an independent, nonprofit R&D organization, provides structural geology and geomechanics solutions, including mechanical stratigraphy, fracture analysis, stress and geomechanical analyses, 2D/3D cross-section restoration, regional seismic structural characterization, drone-based photogrammetry and virtual outcrop analysis, joint industry projects, and training and field seminars.

Staatsolie Maatschappij Suriname N.V.#458

Dr.Ir.H.S.Adhinstraat 21, PO Box 4069
Paramaribo, Suriname
http://www.staatsolie.com

State of Alaska Division of Oil and Gas#653

550 W 7th Ave Ste 1100
Anchorage, AK 99501, United States
dog.dnr.alaska.gov
Derek Nottingham, Director
+1 907 269 8800
The Division of Oil and Gas manages lands for oil, gas, and geothermal exploration and development in a fair and transparent manner to maximize the prudent use of resources for the greatest benefit of all Alaskans, and facilitates safe and environmentally conscious operation and maintenance of common carrier pipelines.

Stone Quilt Design.....#1547

6755 Ranch Ln
Morrison, CO 80465, United States
www.stonequiltedesign.com
Susan Judy, Owner
+1 303 809 2629

Susan Judy is a stone relief sculptor with a background in exploration geology. She has worked in relief sculpture since 1998 inlaying rare stone slabs with fossil and crystal specimens to create geologic and abstract art. Her 2- and 3-D art has received awards at geologic exhibitions in private galleries, and is held in both private and corporate collections.

StratoChem Services North America, Inc.....#852

15222 Summer Bounty Trail
Cypress, TX 77429,
United States
stratochem.com
Hunter Eden,
Sales & Client Success Manager
+1 720 648 7850



hunter.eden@stratochemlabs.com
StratoChem Services is a world-class organic geochemical lab and interpretive consultancy in Cairo, Egypt. Specializing in a variety of rock, oil, & gas analyses, StratoChem's decades of experience and top-quality data make it the first choice for clients around the world. Affordably priced, we prioritize quick turnaround times & comprehensive answers. Check us out! Contact info@stratochemlabs.com

STRYDE.....#1035

22330 Merchants Way Ste 190
Katy, TX, United States
www.strydefurther.com
Pete Shelton, Head of Business Development
+1 346 368 3278
pete.shelton@strydefurther.com

STRYDE manufactures pioneering onshore seismic sensors and offers fast-track data processing solutions, enabling land seismic acquisition contractors, companies, and organisations seeking to access high-resolution seismic:

- In a reduced timeframe
- At a significantly reduced price point
- With minimal environmental footprint
- With less exposure to risk

Student and Faculty Lounge..... #660**Studio X..... #440**

211 E 7th Street 5th Fl
Austin, TX 78701
United States
x.studio



Studio X is a first-of-its-kind open global innovation company working to accelerate the pace of innovation in energy. Studio X breaks norms by creating a community workshare network to partner with startups, legacy brands, scientists, entrepreneurs, and creative minds to create new flows, innovate on existing ideas, and solve some of the world's largest energy challenges.

Subsurface Clarity, LLC#243

27207 Starry Oaks Dr
Magnolia, TX 77354, United States
subsurfaceclarity.com
Ken Abdullah, Principal Geoscientist
+1 832 521 3311
ken@subsurfaceclarity.com

Subsurface Clarity is a seismic data interpretation company designed to reveal the complex 3D architecture of your reservoir targets. Using leading-edge technologies, our experts move your data volumes through Post-Stack Conditioning, detailed Horizon and Fault mapping, Sequence and Facies analyses, and 3D Property Modeling, to Static Reservoir Models. All in highly-reduced cycle time.

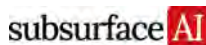
Subsurface Consultants & Associates, LLC (SCA) #206

10700 Richmond Ave Ste 325
Houston, TX 77042, United States
www.scacompanies.com
Mary Atchison, VP of Training Operations
+1 713 789 2444

info@scacompanies.com
Subsurface Consultants & Associates, LLC (SCA) is a service provider to the upstream oil and gas industry. We offer four primary services including geoscience and engineering consulting, upstream projects and studies, training services, and direct hire recruitment. Other services include carbon capture utilization and storage geological consulting, A&D advisory, 3rd party & peer review, and mentoring.

subsurfaceAI Inc..... #1616

Suite 1206, 734 -
7 Avenue SW,
Calgary, Canada
Renjun Wen, President, CEO
+1 403 617 5398
renjun@geomodeling.com



Geomodeling provides advanced software and expert services in multi-scale reservoir modeling, upscaling and quantitative seismic attribute analysis beyond conventional workflows. We offer software products to solve major challenges in seismic reservoir characterization and heterogeneity modeling.

Talus Technologies Inc.....#1210

Ste 1230 335 8th Ave SW
Calgary, AB T2P 1C9, Canada
explorationarchives.com
Paul Thompson, Vice President
+1 403 478 6592

paul.thompson@talus-tech.com
Talus develops seismic data management software which has met with wide industry acceptance. Its Exploration Archives software suite is actively in use by many of the O&G supermajors. We have experience upgrading clients from various legacy systems on the market today to Exploration Archives, and our clients tell us they experience cleaner data, reduced storage costs, and increased productivity.

TDI-Brooks#847

14391 S Dowling Road
College Station, TX 77845, United States
www.tdi-bi.com
Melissa Wood, Director of Business Development,
Sales & Marketing
+1 713 208 1734
melissawood@tdi-bi.com

TDI-Brooks is a scientific field acquisition services company specializing in multi-disciplinary oceanographic projects including seabed geotechnical coring/CPT and geophysical surveys for deep-water developments, pipelines, cable routes and offshore wind farms, environmental baseline surveys (EBS), metocean and geochemical "seep hunting" exploration and heat flow for oil and gas.

Tech Limit..... #1747

12 Gould Road
Stirling, SA 5152, Australia
techlimit.com
Scott Mildren, Managing Director
+61 0417848444

The Tech Limit Toolbox for integrated geomechanical solutions. 1D/3D pore pressure and geomechanical models, pre-drill wellbore stability, risking CCUS site integrity and unconventional optimisation. Execute complete workflows and integrate a range of data types on a single platform. Setup repeatable tasks as custom workflows for instant results. Take the stress out of geomechanics.

TEECsolutions, LLC #1009

3100 Wilcrest Drive Ste 325
Houston, TX 77042, United States
http://teecsolutions.com

Exhibitor Directory (continued)

Teledyne Marine #2038

1026 N Williamson Blvd
Daytona Beach, FL 32114, United States
www.teledynemarine.com
+1 386 236 0780
info@teledynemarine.com
Teledyne Marine encompasses core technologies to address the needs of the offshore seismic market.



Companies include:

Teledyne Geophysical - long-standing supplier of hydrophones, and streamer cables; Teledyne Bolt, Real Time Systems, and AG Geophysical, with product offerings including eco-friendly sound sources, air gun controller/synchronization systems, and harsh environment interconnect systems.

Telemark Lucia Services LLC 1840

4054 Saint Lucia St
Boulder, CO
United States
telenrg.com

TEMCompany #2025

Vester Soegaardsvej 22, Aarhus, 8230
Denmark
www.temcompany.com
Pradip Maurya, C.T.O
+4542688445

Experience the future of near surface imaging with TEMcompany's cutting-edge TEM Instruments. Our high-resolution, fast, and modern instruments enable near-surface 3D mapping for groundwater and other geotechnical applications. Embrace the convenience of wireless operation, and high quality data collection. Unlock the power of innovation for efficient and precise geophysical exploration.

TERRASYS Geophysics.....#1112

Baumeisterstr. 2
20099 Hamburg, Germany
www.terrasysgeo.com
Markus Krieger
+49402800460, info@terrasysgeo.com
Independent consultancy focusing on efficient Gravity/Magnetic/EM integration for reliable earth models, from resource exploration to near-surface investigations.

To support our clients, TERRASYS applies flexible, target-oriented workflows, from structural joint inversion to petrophysical modelling. Our multi-disciplinary approach to geology-driven solutions reduces uncertainty, risk and cost.

Texas A&M University..... #1846

611 Ross St Halbouty Bldg 3115 TAMU
College Station, TX 77843
United States
geogeo.tamu.edu/

Texas Christian University.....#1739

Fort Worth, TX, United States
cse.tcu.edu/geology/index.php
Blake Warwick, Lab Manager
+1 817 257 3964
blake.warwick@tcu.edu
Our mission is to provide a professional partnership between students, faculty, and leaders in the energy industry through cooperation, mentorship, research, and education.

TGS#1501

10451 Clay Rd
Houston, TX 77041, United States
www.tgs.com
+1 713 860 2100, marketing@tgs.com
TGS provides scientific data and intelligence to companies active in the energy sector. In addition to a global, extensive and diverse energy data library, TGS offers specialized services such as advanced processing and analytics alongside cloud-based data applications and solutions.

The University of Texas

Jackson School#501

1 University Station C1100
Austin, TX 78712, United States
www.jsg.utexas.edu/

Thermo Fisher Scientific.....#907

5350 NE Dawson Creek Dr
Hillsboro, OR 97124, United States
www.thermofisher.compergeos

Trinidad and Tobago Ministry of

Energy and Energy Industries... #560

Levels 15, 22-26, Tower C, International Waterfront Centre, #1 Wrightson Road Port of Spain, Trinidad & Tobago
www.energy.gov.tt
Tanuja Balkeran, Geocientist
+1 868 338 3344, bidround@energy.gov.tt
The Ministry of Energy and Energy Industries Trinidad and Tobago is responsible for the overall management of the oil, gas and minerals sectors in Trinidad and Tobago. This includes the monitoring, controlling and regulating of the country's energy and mineral sectors, which are the largest single contributors to the Gross Domestic Product of the country.

TRICON Geophysics.....#901

1717 N Sam Houston Pkwy W Ste 125A
Houston, TX 77038, United States
www.tricongeophysics.com
Dave Williams, Vice President
+1 713 532 5006
dave.williams@tricongeophysics.com
Seismic Imaging PSTM & PSDM
Reservoir Services AVO & Inversion
Petrophysical Analysis
Fracture Analysis VVAz & AVAz

Troika.....#1119

Chiltern House, Marsack Street
Reading RG4 5AP, United Kingdom
verif-i.com

U.S. Geological Survey (USGS).....#750

Energy Resources Program
Box 25046, MS 939, Denver Federal Center
Denver, CO 80403, United States
energy.usgs.gov
The USGS Energy Resources Program (ERP) conducts research and assessments on the location, quantity, and quality of mineral and energy resources. The ERP provides reliable and impartial scientific information on geologically based energy resources including oil, natural gas, coal, coalbed methane, gas hydrates, uranium, hydrogen, and oil shale.

Union Geofisica Mexicana (UGM) ... #648

Av. Ruiz #315-C, Zona Centro
Ensenada, Baja California 22860, Mexico
uniongeofisicamexicana.org.mx
Jonas De Basabe, Professor
+52 646 1750500, ugm.contacto@gmail.com
The Mexican Geophysical Union (UGM) brings together geoscientists in Solid Earth, Oceanography, Limnology, Atmosphere, and Space Sciences. Founded in 1960, it is now one of the largest Mexican geoscience societies. The most important activity is the Annual Meeting.

University of Houston - EAS.....#1705

3507 Cullen Blvd SR1 312
Houston, TX 77204, United States
eas.uh.edu
Sarai Hernandez, Admin. Assistant
+1 713 743 2943, shernandez20@uh.edu
The Department of Earth and Atmospheric Sciences (EAS) at the University of Houston addresses fundamental questions in the Earth and planetary sciences. Our transformative and interdisciplinary research refines the understanding of how major Earth and planetary systems develop and interact. Student education and training are fundamentally enhanced by our broad research areas.

University of Kansas Department of Geology/KICC-KICE3.....#1841

1414 Naismith Dr, Ritchie Hall Rm 254
Lawrence, KS 66045, United States
www.geo.ku.edu
David Fowle, Department Chair & Dean's Professor
+1 785 864 1955, fowle@ku.edu
Top ranked Earth Science graduate programs in Paleontology, Geophysics, Glaciology, Oil-Gas GEOL, Energy Transition, ENVRN & Hydro- GEOL, Sedimentary GEOL, GEO Chem., Geochronology, Tectonics & Structural GEOL, and Geobiology; w/ NSF, NASA, other grants/contracts. State-of-the-art facilities & home of KICC (Kansas Interdisciplinary Carbonates Consortium)/KICE³ (K.I.C. for Earth, Energy & Environment).

University of Oklahoma#918

100 E Boyd Street Ste 710
 Norman, OK 73019, United States
 geosciences.ou.edu
 Ashley Tullius, Senior Student Program Coordinator
 +1 405 325 3253
 geology@ou.edu

The School of Geosciences is a leader in multidisciplinary studies of complex and dynamic geosystems and their impacts on society. The School will provide students with high-quality education and research opportunities within a creative and interdisciplinary environment with an emphasis on fundamental and applied geosciences

U-Pitch Theater#1355**Verif-i#1119**

Chiltern House, Marsack Street
 Reading RG4 5AP, United Kingdom
 verif-i.com

Vidence#1047

4288 Lozells Ave Ste 213 (Lower)
 Burnaby, British Columbia V5A 0C7, Canada
 www.videnceinc.com
 Marc Enter, Director
 +1 403 333 6086
 Marc.Enter@videnceinc.com
 At Vidence we help improve landing zone selection, mitigate completions risks, characterize facies, and determine controls on porosity development. Automated Mineralogy by AMICS combines detailed textural information from backscatter electron imaging, as well as fully quantitative mineralogical analysis by SEM-EDS to provide the most informative cuttings-based analysis available to the O&G industry.

Vinci Technologies.....#1811

27B rue du Port, Parc de l'Ile
 92000 Nanterre, France
 www.vinci-technologies.com
 Flavien Rameau
 +33 141379220
 vincinet@vinci-technologies.com
 Our vision: Enhancing climate change mitigation. Vinci's origins began with the manufacturing of highly specialized laboratory and field instruments. Throughout this history, Vinci has supported the evolution of our core client industries while adapting and developing new instruments to address emerging challenges - carbon footprint, environment, global awareness and energy transition.

VSProwess#1349

Greenways, Wiveliscombe, United Kingdom
 vsprowess.com
 VSProwess Ltd are independent specialists in Vertical Seismic Profile (VSP) processing, offering a wide range of advanced processing services.

Weihai Sunfull Geophysical Exploration Equipment.....#1108

No. 1517-7 Hexing Road
 Hi & New Tech Development Zone
 Weihai, Shandong, China
 www.sunfull.com

WellSight Systems Inc.#1212

PO Box 1514
 Aspen Landing
 Calgary, AB T3H 0N8
 Canada
 wellsight.com
 Craig Rutar, Sales & Support
 +1 800 4471534
 info@wellsight.com



WellSight Systems Inc. is the world's leading provider of Geological Strip Log software - StarLog: StripLog, MudLog & HorizontalLog for well site Geologists & Mud Loggers which creates a digital record of your downhole data. The popular StarLog Suite of products are used by thousands of customers worldwide in drilling and exploration. LogManager & LogViewer are used to manage, view & print StripLogs.

Western Colorado University..... #1848

1 Western Way, Gunnison, CO 81231, United States
 western.edu/geology
 Bradford Burton, Professor
 +1 970 250 9495
 Announcing our new Graduate Certificate in Energy Geoscience program, coming in Fall 2024.

Wildcat Technologies, LLC#1104

218 Higgins St, Humble, TX 77338, United States
 wildcattechnologies.com
 Albert Maende, Applications Geochemist/Geologist
 +1 281 540 3208
 info@wildcattechnologies.com
 HAWK Pyrolysis TOC & Carbonate Carbon instrument delivers exceptional sensitivity, accuracy and reliable results for reservoir and source rocks. Our intuitive database software HAWK-Eye streamlines sample analysis & data interpretation. The HAWK provides insights into petroleum assessment, including HAWK-PAM & API Gravity prediction. A reliable & cost-effective solution for your lab or well site.

Xcalibur MPH (U.S.) Inc..... #1246

11755 W Little York Rd
 Houston, TX 77040, United States
 https://www.xcaliburmp.com/

XtremeGeo, LLC #1045

PO Box 350021
 Westminster, CO 80035, United States
 xtgeo.com
 XtremeGeo is the creator of Flatirons; refraction statics software, Phoenix; big data refraction software, and PickX; a neural net first break picker. XtremeGeo also offers near surface processing.

Zeiss Microscopy#1916

One North Broadway
 White Plains, NY 10601,
 United States
 zeiss.com/microscopy
 Karin Salerno,
 Marketing Events Manager
 +1 914 6817627



Reservoir structures exhibit heterogeneity from kilometer-to-nanometer scales. Pore-scale information acquired based on macroscopic heterogeneity can provide insights quantitatively upscaled to the core plug and whole core scales. The ZEISS portfolio of light, X-ray, electron, and ion microscopes is uniquely capable of solving the multiscale and multi-physics challenges of pore and core analysis.

Zhaofeng Sensor Equipment Co., Ltd... #1448

In North, Aote Automobile Factory
 Xushui, Baoding, Hebei 72555, China
 www.zfgeo.com
 Haojie Feng, Sales Manager
 +86 10 87576701
 zhaofeng@zfgeo.com
 Business 01: Factory Production
 Three factories to manufacture & supply Wireless Geophone, Vibrator and Seismic Cable for 2D/3D seismic survey. Business 02: 2D/3D Seismic Survey. We are looking for 2D/3D seismic project, and partners who is full of experience with bidding process.

Zonge International, Inc..... #2040

3475 N Dodge Blvd
 Tucson, AZ 85749, United States
 zonge.com
 Scott Urquhart, President
 +1 520 401 2221
 sales@zonge.com
 For more than 50 years, Zonge has provided contract geophysical field services supporting minerals, water, geothermal, CO₂, and petroleum exploration and monitoring. We also manufacture and sell a full line of equipment for electrical and electromagnetic geophysics. Worldwide, we can provide crews, expertise, or equipment for resistivity, IP, CR, CSAMT, TEM, AMT, MT, seismic, magnetics, gravity.

Z-Terra Inc.#1447

17171 Park Row Ste 247
 Houston, TX 77084, United States
 www.z-terra.com
 Alexander Mihai Popovici, CEO
 +1 281 945 0000
 mihai@z-terra.com
 Z-Terra is a leading edge provider of integrated enterprise seismic imaging software and service solutions for the upstream oil and gas industry. Z-Terra is based in Houston, and has offices and representation in Calgary, The Hague, London, Aberdeen, Bucharest, Rio de Janeiro, Kuala Lumpur, Kuwait City, Abu Dhabi, and Buenos Aires. Z-Terra developed and sells a complete depth imaging system.

Category Listings

List current as of 8 August 2023

3D HIGH-RES SEISMIC

Applied Acoustics.....	2032
DeepWave Consortium.....	1049
Engenius Software.....	1109
Fairfield Geotechnologies.....	1423
Geoteric.....	1239
Interactive Network Technology (INT).....	315
KIGAM.....	336
PGS.....	520
PXGEO.....	1417
SAExploration.....	633
SambaNova Systems.....	1111
SINOPEC Geophysical Corporation.....	121
SISPROBE@EGIS.....	1839
Sound QI Solutions Ltd.....	2031
STRYDE.....	1035
TRICON Geophysics.....	901

3D MODELING

Applied Geodynamics Laboratory (AGL).....	902
Baker Hughes.....	1923
Blackriver Software Solutions.....	1148
Cegal LLC.....	215
DGH/UH Center of Hydrocarbon Exploration.....	553
East View Geospatial.....	1748
Engenius Software.....	1109
Interactive Network Technology (INT).....	315
KIGAM.....	336
Petricore.....	1804
Rock Flow Dynamics.....	331
Sound QI Solutions Ltd.....	2031
Southwest Research Institute.....	306
Subsurface Clarity, LLC.....	136
VSProwess.....	1349

3D VISUALIZATION

AspenTech Subsurface Science & Engineering.....	536
Blackriver Software Solutions.....	1148
Cognitive GeoInterpretation Inc.....	241
DGH/UH Center of Hydrocarbon Exploration.....	553
GeoMind.....	407
Geoteric.....	1239
Interactive Network Technology (INT).....	315
PGS.....	520
Rock Flow Dynamics.....	331
SDI.....	641
Sound QI Solutions Ltd.....	2031
Subsurface Clarity, LLC.....	136
Tech Limit.....	1747

4D SEISMIC / PERMANENT RESERVOIR MONITORING

Alcatel Submarine Networks.....	1641
DeepWave Consortium.....	1049
Delft Inversion.....	1004
KIGAM.....	336
PGS.....	520
Qeye.....	1800
Sound QI Solutions Ltd.....	2031

ACCESSORIES / SUPPLIES / MATERIALS

Glenair, Inc.....	1005
Seismic Source Co.....	1000

ACQUISITION DESIGN

Bell Geospace.....	1014
Engenius Software.....	1109
Fairfield Geotechnologies.....	1423
Land Seismic Noise Specialists, LLC.....	1113
OptiSeis Solutions Ltd.....	1808
PGS.....	520
PXGEO.....	1417
SINOPEC Geophysical Corporation.....	121
Telemark Energy Services LLC.....	1840
VSProwess.....	1349

ADVERTISING / MARKETING

GEO EXPRO.....	850
----------------	-----

AERIAL GEOPHYSICAL SURVEYS

Bell Geospace.....	1014
Dynamic Aviation Group, Inc.....	1013
Planet.....	1648

AIR GUNS / WATER GUNS

KIGAM.....	336
MIND Technology, Inc.....	1509
SEAMAP a MIND Technology Business.....	1509
Sercel.....	1633

AIRBORNE / AIRBORNE SURVEYS

Bell Geospace.....	1014
Dynamic Aviation Group, Inc.....	1013
Planet.....	1648

AIRBORNE MAGNETOMETER

Bell Geospace.....	1014
--------------------	------

AIRBORNE RADAR REMOTE SENSING/AERIAL PHOTOGRAPHY

ACT-GEO and Geology Field School.....	904
Dynamic Aviation Group, Inc.....	1013
Planet.....	1648

ANALOG STUDIES AND SOLUTIONS

C&C Reservoirs.....	601
Southwest Research Institute.....	306

ANALYSIS / MODELING / SERVICES

Bell Geospace.....	1014
GeoSoftware.....	1716
Isobar Science.....	1008
KIGAM.....	336
Land Seismic Noise Specialists, LLC.....	1113
One-Geo.....	1649
Petricore.....	1804
Planet.....	1648
StratoChem Services North America, Inc.....	852
Tech Limit.....	1747

ARTIFICIAL INTELLIGENCES, XRF ANALYSIS, GEOSTEERING

Bluware.....	330
Cognitive GeoInterpretation Inc.....	241
DataLog & GeoVision.....	701
DeepWave Consortium.....	1049
GeoMind.....	407
Geoteric.....	1239
One-Geo.....	1649
Penguin Solutions.....	802
PXGEO.....	1417
SambaNova Systems.....	1111

ASSOCIATIONS / SOCIETIES

EAGE.....	905
Seismological Society of America.....	952

BASIN STUDIES/MODELING ANALYSIS

ACT-GEO and Geology Field School.....	904
C&C Reservoirs.....	601
DGH/UH Center of Hydrocarbon Exploration.....	553
GeoMark Research.....	300
Ikon Science.....	739
NuTech.....	1050
StratoChem Services North America, Inc.....	852

BITS/DOWNHOLE TOOLS/ON-SITE EQUIPMENT

National Compressed Air Canada Ltd.....	909
---	-----

BOOKS

GeoScienceWorld.....	800
----------------------	-----

BOREHOLE ANALYSIS

One-Geo.....	1649
Tech Limit.....	1747

BOREHOLE SEISMIC

FOSINA.....	1811
SINOPEC Geophysical Corporation.....	121
Telemark Energy Services LLC.....	1840
Vinci Technologies.....	1811
Zhaofeng Sensor Equipment Co., Ltd.....	1448

BUSINESS / FINANCIAL SERVICES

GeoCare Benefits Group Insurance.....	652
---------------------------------------	-----

CABLES / CONNECTORS

Alcatel Submarine Networks.....	1641
Glenair, Inc.....	1005
Teledyne Marine.....	2038

COMPRESSORS

KIGAM.....	336
National Compressed Air Canada Ltd.....	909

COMPUTER GRAPHICS

SDI.....	641
----------	-----

COMPUTER HARDWARE FOR EXPLORATION OR PROSPECT EVALUATION

Penguin Solutions.....	802
------------------------	-----

COMPUTER TECHNOLOGY / SOFTWARE / SUPPLIES

Blackriver Software Solutions.....	1148
Bluware.....	330
C&C Reservoirs.....	601
EasyCopy Company.....	2023
Engenius Software.....	1109
GeoSoftware.....	1716
Geoteric.....	1239
Penguin Solutions.....	802
Planet.....	1648
SDI.....	641
Studio X.....	236
Tech Limit.....	1747
WellSight Systems Inc.....	1212

CONNECTORS AND CABLES

Glenair, Inc.....	1005
Zhaofeng Sensor Equipment Co., Ltd.....	1448

CONSULTANTS / CONTRACTORS

Applied Geodynamics Laboratory (AGL).....	902
EDGE Systems.....	915
Getech.....	1835
Katalyst Data Management.....	623
Subsurface Clarity, LLC.....	136
Tech Limit.....	1747
TERRASYS Geophysics.....	1112
Zhaofeng Sensor Equipment Co., Ltd.....	1448

CORE ANALYSIS/STORAGE/CORING

Core Laboratories.....	808
DMT GmbH & Co. KG.....	1939
GeoMark Research.....	300
NuTech.....	1050
Premier Corex.....	1806
Southwest Research Institute.....	306
Texas Christian University.....	2018

CORE DESCRIPTION SOFTWARE

EasyCopy Company.....	2023
-----------------------	------

CUSTOM SUBSURFACE MAPPING

Geomap Company.....	1749
---------------------	------

DATA ACQUISITION

Allton.....	1006
Bell Geospace.....	1014
East View Geospatial.....	1748
Fairfield Geotechnologies.....	1423
FOSINA.....	1811
HRH Geology.....	1549
KIGAM.....	336
Telemark Energy Services LLC.....	1840
Vinci Technologies.....	1811
Zhaofeng Sensor Equipment Co., Ltd.....	1448

DATA MANAGEMENT AND STORAGE

Bluware.....	330
Cegal LLC.....	215
Core Laboratories.....	808
Katalyst Data Management.....	623

DATA MANAGEMENT

Baker Hughes.....	1923
Bluware.....	330
Getech.....	1835
Katalyst Data Management.....	623
Neuralog.....	707
WellSight Systems Inc.....	1212

DATA PROCESSING

ACT-GEO and Geology Field School.....	904
East View Geospatial.....	1748
KIGAM.....	336

DATA SERVICES

Ikon Science.....	739
Katalyst Data Management.....	623
KIGAM.....	336
Planet.....	1648
Studio X.....	236

DEPTH IMAGING

AspenTech Subsurface Science & Engineering.....	536
Land Seismic Noise Specialists, LLC.....	1113
LIM Technology.....	1836
PXGEO.....	1417
TRICON Geophysics.....	901

Category Listings (continued)

DIGITAL RECORD OF WELL EVENTS

Alcatel Submarine Networks	1641
WellSight Systems Inc.....	1212

DIGITAL ROCK ANALYSIS

Core Laboratories	808
DMT GmbH & Co. KG.....	1939
Ikon Science.....	739
Petricore.....	1804
Premier Corex.....	1806

DIGITIZING SERVICES

Baker Hughes.....	1923
Geomap Company.....	1749
PXGEO	1417

DIGITIZING/DIGITAL PRODUCTS AND SERVICES

C&C Reservoirs	601
CGG	1622
East View Geospatial	1748
GeoMark Research.....	300
HRH Geology.....	1549
Katalyst Data Management	623
Neuralog	707
SLB.....	1217
Studio X.....	236

DRILL CUTTINGS ANALYSIS

EDGE Systems.....	915
GeoMark Research.....	300
Impac Exploration Services.....	600
NuTech.....	1050
One-Geo	1649
Petricore.....	1804
Premier Corex.....	1806

E&P PROJECT ECONOMICS AND EVALUATION

ACT-GEO and Geology Field School.....	904
C&C Reservoirs	601

EDUCATIONAL INSTITUTION

Applied Geodynamics Laboratory (AGL).....	902
Texas Christian University.....	2018
University of Oklahoma.....	918
Western Colorado University.....	1848

ELECTRICAL AND ELECTROMAGNETIC

Allton.....	1006
Geonics Limited.....	2034
TEMCompany.....	2025
TERRASYS Geophysics.....	1112

ELECTRICAL RESISTIVITY INSTRUMENTS / EQUIPMENT

LIM Technology.....	1836
TEMCompany.....	2025

ELECTROMAGNETIC INSTRUMENTS

Geonics Limited.....	2034
TEMCompany.....	2025

ENGINEERING CONSULTING SERVICES

NuTech.....	1050
-------------	------

EXHIBITION ORGANIZERS

KIGAM.....	336
------------	-----

EXPLORATION DATA AND MAP LIBRARIES

Core Laboratories.....	808
GeoEdges Inc.....	1940
Geomap Company.....	1749
Interactive Network Technology (INT).....	315
Neuralog	707

EXPLORATION OPPORTUNITIES

Coastline Exploration Limited.....	755
DGH/UH Center of Hydrocarbon Exploration.....	553
Envoi Limited.....	559
GeoEdges Inc.....	1940
PERUPETRO S.A.....	452
PGS.....	520

FIBRE OPTIC SENSING

FOSINA.....	1811
-------------	------

FIELD INSTRUMENTATION

FOSINA.....	1811
Impac Exploration Services.....	600
TEMCompany.....	2025

FOUNDATION

AAPG Foundation.....	257
SEG Foundation.....	153

FRACK MONITORING

Automated Seismics.....	1149
FOSINA.....	1811
Interactive Network Technology (INT).....	315
Vinci Technologies	1811

GEOCHEMICAL SERVICES AND CONSULTING

Geochemical Insight.....	1946
GeoMark Research.....	300
Ikon Science.....	739
One-Geo	1649
Premier Corex.....	1806
StratoChem Services North America, Inc.	852

GEOCHEMICAL SURVEYS

Geochemical Insight.....	1946
--------------------------	------

GEOLOGIC ART

Stone Quilt Design	1547
--------------------------	------

GEOLOGIC/GEOPHYSICAL WORKSTATIONS

GeoMind.....	407
Studio X.....	236

GEOLOGICAL / GEOPHYSICAL MODELING

ACT-GEO and Geology Field School.....	904
AspenTech Subsurface Science & Engineering	536
Cegal LLC.....	215
DGH/UH Center of Hydrocarbon Exploration.....	553
East View Geospatial	1748
GeoMind.....	407
GeoSoftware.....	1716
Getech.....	1835
HRH Geology.....	1549
Interactive Network Technology (INT).....	315
Marine Magnetics Inc.....	1838
Rock Flow Dynamics	331
SISPROBE@EGIS	1839
TERRASYS Geophysics.....	1112

GEOLOGICAL EDUCATIONAL SOCIETY

Houston Geological Society	1351
----------------------------------	------

GEOLOGICAL MODELING

Applied Geodynamics Laboratory (AGL).....	902
Blackriver Software Solutions.....	1148
NuTech.....	1050
Rock Flow Dynamics.....	331
Southwest Research Institute.....	306
StratoChem Services North America, Inc.....	852

GEOLOGICAL SERVICES (AND INTERPRETATION)

Core Laboratories.....	808
DGH/UH Center of Hydrocarbon Exploration.....	553
DMT GmbH & Co. KG.....	1939
GeoEdges Inc.....	1940
Geo-Linkm Inc.....	1244
GVERSE GeoGraphix.....	715
HRH Geology.....	1549
Impac Exploration Services.....	600
Neuralog.....	707
Premier Corex.....	1806
SambaNova Systems.....	1111
Southwest Research Institute.....	306

GEOLOGICAL STUDIES AND CONSULTING

ACT-GEO and Geology Field School.....	904
C&C Reservoirs.....	601
CGG.....	1622
EasyCopy Company.....	2023
Geo-Linkm Inc.....	1244
GeoMark Research.....	300
Getech.....	1835
HRH Geology.....	1549
Impac Exploration Services.....	600
Premier Corex.....	1806
Southwest Research Institute.....	306
StratoChem Services North America, Inc.....	852
Subsurface Clarity, LLC.....	136

GEPHONES

Earth Pulse (Wuxi) Technology Co., Ltd.....	1450
Sercel.....	1633
Zhaofeng Sensor Equipment Co., Ltd.....	1448

GEOPHYSICAL

Allton.....	1006
Applied Acoustics.....	2032
Beijing Orangelamp Geophysical Exploration Co.,Ltd.....	1251
Bell Geospace.....	1014
dGB Earth Sciences.....	1737
EasyCopy Company.....	2023
FOSINA.....	1811
Geonics Limited.....	2034
LIM Technology.....	1836
Marine Magnetics Inc.....	1838
PXGEO.....	1417
Qeye.....	1800
TEMCompany.....	2025
TGS.....	1501
Vinci Technologies.....	1811
Zhaofeng Sensor Equipment Co., Ltd.....	1448

GEOPHYSICAL DATA PROCESSING

AspenTech Subsurface Science & Engineering.....	536
Bell Geospace.....	1014
dGB Earth Sciences.....	1737
GeoMind.....	407
Land Seismic Noise Specialists, LLC.....	1113
Marine Magnetics Inc.....	1838
PGS.....	520
SINOPEC Geophysical Corporation.....	121
TGS.....	1501
TRICON Geophysics.....	901

GEOPHYSICAL INTERPRETATION

AspenTech Subsurface Science & Engineering.....	536
Cognitive GeoInterpretation Inc.....	241
dGB Earth Sciences.....	1737
DGH/UH Center of Hydrocarbon Exploration.....	553
Eliis.....	733
GeoMind.....	407
GeoSoftware.....	1716
Getech.....	1835
GVERSE GeoGraphix.....	715
Ikon Science.....	739
Land Seismic Noise Specialists, LLC.....	1113
LIM Technology.....	1836
Premier Corex.....	1806
SambaNova Systems.....	1111
SINOPEC Geophysical Corporation.....	121
TEMCompany.....	2025
TERRASYS Geophysics.....	1112

GEOPHYSICAL MODELING

AspenTech Subsurface Science & Engineering.....	536
DeepWave Consortium.....	1049
dGB Earth Sciences.....	1737
Premier Corex.....	1806

GEOPHYSICAL PROCESSING

AspenTech Subsurface Science & Engineering.....	536
dGB Earth Sciences.....	1737
Earth Pulse (Wuxi) Technology Co., Ltd.....	1450
OptiSeis Solutions Ltd.....	1808

GEOPHYSICAL SERVICES (AND INTERPRETATION)

Allton.....	1006
AspenTech Subsurface Science & Engineering.....	536
Cegal LLC.....	215
dGB Earth Sciences.....	1737
DMT GmbH & Co. KG.....	1939
Eliis.....	733
Fairfield Geotechnologies.....	1423
GeoMind.....	407
GeoSoftware.....	1716
Petricore.....	1804
Qeye.....	1800
SAExploration.....	633
SINOPEC Geophysical Corporation.....	121
SISPROBE@EGIS.....	1839
Studio X.....	236
Telemark Energy Services LLC.....	1840
TERRASYS Geophysics.....	1112

GEOPHYSICAL SUPPLIES

Applied Acoustics.....	2032
Marine Magnetics Inc.....	1838

GEOSTEERING

Baker Hughes.....	1923
DataLog & GeoVision.....	701
EDGE Systems.....	915
Geo-Linkm Inc.....	1244
GVERSE GeoGraphix.....	715
Impac Exploration Services.....	600

GEOTECHNICAL INSTRUMENTS

TEMCompany.....	2025
-----------------	------

GIS

East View Geospatial.....	1748
Getech.....	1835
OptiSeis Solutions Ltd.....	1808
Planet.....	1648
SINOPEC Geophysical Corporation.....	121

Category Listings (continued)

GLOBAL POSITIONING SYSTEMS (GPS)

Applied Acoustics..... 2032

GRAVITY SERVICES AND CONSULTING

Getech..... 1835
TERRASYS Geophysics..... 1112

GRAVITY/MAGNETICS EM, GEOELECTRIC

Allton..... 1006
Bell Geospace..... 1014
Geonics Limited..... 2034
Getech..... 1835
Telemark Energy Services LLC..... 1840
TERRASYS Geophysics..... 1112

HELICOPTER PORTABLE AIR COMPRESSORS/ DRILLS/DRILLING ACC

National Compressed Air Canada Ltd..... 909

HELICOPTER/AIRCRAFT SERVICES

Dynamic Aviation Group, Inc..... 1013

HIGH PERFORMANCE COMPUTING

Cegal LLC..... 215
DeepWave Consortium..... 1049
Penguin Solutions..... 802
SambaNova Systems..... 1111

HIGH PRESSURE SEISMIC AIR COMPRESSORS

National Compressed Air Canada Ltd..... 909

HYDROGRAPHIC GEOPHYSICAL SURVEYS

Applied Acoustics..... 2032

HYDROPHONES

Teledyne Marine..... 2038
Vinci Technologies..... 1811
Zhaofeng Sensor Equipment Co., Ltd..... 1448

HYPERSPECTRAL IMAGING

Dynamic Aviation Group, Inc..... 1013

IMAGE ANALYSIS

Petricore..... 1804
Planet..... 1648
PXGEO..... 1417
SambaNova Systems..... 1111
Tech Limit..... 1747

INDUCED POLARIZATION INSTRUMENTS

LIM Technology..... 1836

INSTRUMENTS / EQUIPMENT

Core Laboratories..... 808
DMT GmbH & Co. KG..... 1939
Geonics Limited..... 2034
Marine Magnetics Inc..... 1838
Seismic Source Co..... 1000
Sercel..... 1633
Teledyne Marine..... 2038
Zhaofeng Sensor Equipment Co., Ltd..... 1448

INTEGRATED INTERPRETATION

Allton..... 1006
Blackriver Software Solutions..... 1148
DGH/UH Center of Hydrocarbon Exploration..... 553
Eliis..... 733
Geochemical Insight..... 1946
GeoSoftware..... 1716
Getech..... 1835
GVERSE GeoGraphix..... 715
NuTech..... 1050
Sound QI Solutions Ltd..... 2031
StratoChem Services North America, Inc..... 852
Subsurface Clarity, LLC..... 136
TERRASYS Geophysics..... 1112

INTERACTIVE INTERPRETATION

Cognitive GeoInterpretation Inc..... 241
Eliis..... 733
Neuralog..... 707
Sound QI Solutions Ltd..... 2031
Subsurface Clarity, LLC..... 136

INTERNATIONAL SERVICE COMPANY

Allton..... 1006

INVERSION MODELING

CGG..... 1622
Delft Inversion..... 1004
Land Seismic Noise Specialists, LLC..... 1113

ISOTOPE ANALYSIS

Isobar Science..... 1008

JOURNALS

GeoScienceWorld..... 800
Seismological Society of America..... 952

LABORATORY INSTRUMENT OR EQUIPMENT/ MICROSCOPES

Impac Exploration Services..... 600
Vinci Technologies..... 1811
Wildcat Technologies, LLC..... 1104

LABORATORY SERVICES (CORE ANALYSIS)

Premier Corex..... 1806

LABORATORY

Geochemical Insight..... 1946
GeoMark Research..... 300
Impac Exploration Services..... 600
Isobar Science..... 1008
StratoChem Services North America, Inc..... 852

LAND CABLES AND ASSOCIATED EQUIPMENT

Sercel..... 1633

LAND SEISMIC DATA ACQUISITION

Automated Seismics..... 1149
DMT GmbH & Co. KG..... 1939
Fairfield Geotechnologies..... 1423
SAExploration..... 633
STRYDE..... 1035

LAND SEISMIC DATA PROCESSING

Fairfield Geotechnologies..... 1423
Interactive Network Technology (INT)..... 315
Land Seismic Noise Specialists, LLC..... 1113
STRYDE..... 1035
TRICON Geophysics..... 901

LOG DIGITIZING

Geomap Company.....	1749
GVERSE GeoGraphix.....	715
HRH Geology.....	1549
Katalyst Data Management.....	623
Neuralog.....	707
TGS.....	1501

LOGGING INSTRUMENTS / EQUIPMENT

Impac Exploration Services.....	600
One-Geo.....	1649

LOGGING SERVICE

Baker Hughes.....	1923
Impac Exploration Services.....	600
One-Geo.....	1649

MAGNETIC SERVICE AND CONSULTING

Getech.....	1835
TERRASYS Geophysics.....	1112

MAGNETOMETERS

Marine Magnetics Inc.....	1838
---------------------------	------

MAN PORTABLE AIR COMPRESSORS, DRILLS & DRILLING ACC

National Compressed Air Canada Ltd.....	909
---	-----

MAP DISPLAYS

GeoEdges Inc.....	1940
-------------------	------

MAPPING SOFTWARE

Baker Hughes.....	1923
Blackriver Software Solutions.....	1148
GeoMind.....	407
GVERSE GeoGraphix.....	715
Neuralog.....	707
SDI.....	641
Sound QI Solutions Ltd.....	2031

MAPPING WEB-BASED

East View Geospatial.....	1748
Geomap Company.....	1749
SDI.....	641

MAPPING

East View Geospatial.....	1748
GeoEdges Inc.....	1940
Geomap Company.....	1749

MAPPING/CARTOGRAPHIC SERVICES/DATA

East View Geospatial.....	1748
GeoEdges Inc.....	1940
Geomap Company.....	1749

MAPS

East View Geospatial.....	1748
GeoEdges Inc.....	1940
Geomap Company.....	1749

MARINE MAGNETOMETER

Marine Magnetics Inc.....	1838
---------------------------	------

MARINE SEISMIC DATA ACQUISITION

Applied Acoustics.....	2032
Engenius Software.....	1109
PGS.....	520
SAExploration.....	633

MARINE SEISMIC DATA PROCESSING

PGS.....	520
TRICON Geophysics.....	901

MARINE SEISMIC SOURCES (AIR GUNS AND OTHERS)

Applied Acoustics.....	2032
MIND Technology, Inc.....	1509
SEAMAP a MIND Technology Business.....	1509
Teledyne Marine.....	2038

MARINE SEISMIC

Applied Acoustics.....	2032
Engenius Software.....	1109
MIND Technology, Inc.....	1509
National Compressed Air Canada Ltd.....	909
PXGEO.....	1417
SAExploration.....	633
SEAMAP a MIND Technology Business.....	1509
Teledyne Marine.....	2038

MARINE STREAMERS AND ASSOCIATED EQUIPMENT

Applied Acoustics.....	2032
MIND Technology, Inc.....	1509
SEAMAP a MIND Technology Business.....	1509
Sercel.....	1633
Teledyne Marine.....	2038

MEASUREMENT WHILE DRILLING (MWD)

LIM Technology.....	1836
---------------------	------

MICROSEISMIC ANALYSIS

Automated Seismics.....	1149
DeepWave Consortium.....	1049
FOSINA.....	1811
SISPROBE@EGIS.....	1839

MINERAL/FOSSIL/GEM SPECIMENS

Stone Quilt Design.....	1547
-------------------------	------

MINING GEOPHYSICAL INSTRUMENTS / SUPPLIES

Geonics Limited.....	2034
LIM Technology.....	1836

MUD LOGGING

DataLog & GeoVision.....	701
EDGE Systems.....	915
Geo-Linkm Inc.....	1244
Impac Exploration Services.....	600
One-Geo.....	1649
WellSight Systems Inc.....	1212

MULTI-CLIENT SURVEYS

Allton.....	1006
CGG.....	1622
Fairfield Geotechnologies.....	1423
GeoEdges Inc.....	1940

NEAR SURFACE SURVEYS — MINING

Geonics Limited.....	2034
LIM Technology.....	1836
OptiSeis Solutions Ltd.....	1808
SISPROBE@EGIS.....	1839
Telemark Energy Services LLC.....	1840
TEMCompany.....	2025

NON-EXCLUSIVE SEISMIC DATA

Fairfield Geotechnologies.....	1423
TGS.....	1501

Category Listings (continued)

NON-SEISMIC GEOPHYSICAL EQUIPMENT/ SERVICES

Geonics Limited..... 2034

NONSEISMIC METHODS DATA ACQUISITION

Allton..... 1006

NONSEISMIC METHODS DATA PROCESSING

Allton..... 1006
TERRASYS Geophysics..... 1112

OCEAN BOTTOM SEISMIC

Fairfield Geotechnologies..... 1423
PXGEO..... 1417
SAExploration..... 633
Sercel..... 1633

OCEANOGRAPHIC INSTRUMENTATION AND EQUIPMENT

Marine Magnetics Inc..... 1838
Teledyne Marine..... 2038

OIL COMPANIES

Chevron..... 656
Coastline Exploration Limited..... 755
EasyCopy Company..... 2023

OTHER

FOSINA..... 1811
Geomap Company..... 1749
Houston Geological Society..... 1351
Interactive Network Technology (INT)..... 315
Isobar Science..... 1008
Petricore..... 1804
Rare Earth Mercantile..... 848
SDI..... 641
Stone Quilt Design..... 1547

PASSIVE SEISMIC

Alcatel Submarine Networks..... 1641
Automated Seismics..... 1149
Fairfield Geotechnologies..... 1423
MIND Technology, Inc..... 1509
SAExploration..... 633
SEAMAP a MIND Technology Business..... 1509
SISPROBE@EGIS..... 1839
Telemark Energy Services LLC..... 1840
Vinci Technologies..... 1811

PETROLEUM ANALYSIS

Core Laboratories..... 808
GeoMark Research..... 300
StratoChem Services North America, Inc..... 852

PETROPHYSICAL ANALYSIS

Blackriver Software Solutions..... 1148
Core Laboratories..... 808
GeoSoftware..... 1716
GVERSE GeoGraphix..... 715
NuTech..... 1050
Petricore..... 1804
Studio X..... 236
Tech Limit..... 1747
TRICON Geophysics..... 901

PETROPHYSICAL

EasyCopy Company..... 2023
GeoMark Research..... 300

PROJECT MANAGEMENT

ACT-GEO and Geology Field School..... 904
Alcatel Submarine Networks..... 1641
Telemark Energy Services LLC..... 1840

PUBLIC INSTITUTIONS / UNIVERSITIES

Oklahoma State University..... 809

PUBLICATIONS AND TRAINING

GEO EXPRO..... 850

PYTHON

DataLog & GeoVision..... 701
GVERSE GeoGraphix..... 715
Qeye..... 1800
SDI..... 641

QUALITY CONTROL

Telemark Energy Services LLC..... 1840

RECORDING – CONTINUOUS

LIM Technology..... 1836
STRYDE..... 1035

RECORDING – WIRELESS

STRYDE..... 1035

RESEARCH (EXPLORATION)

Applied Geodynamics Laboratory (AGL)..... 902
Marine Magnetics Inc..... 1838
Studio X..... 236

RESERVES APPRAISAL/RESOURCE MANAGEMENT/AND RISK ANALYSIS

Studio X..... 236

RESERVOIR EVALUATION

Blackriver Software Solutions..... 1148
C&C Reservoirs..... 601
NuTech..... 1050
One-Geo..... 1649
Petricore..... 1804
Rock Flow Dynamics..... 331
TGS..... 1501

RESERVOIR OPTIMIZATION

C&C Reservoirs..... 601
Core Laboratories..... 808
GeoMark Research..... 300
NuTech..... 1050
Rock Flow Dynamics..... 331

RESERVOIR STUDIES

C&C Reservoirs..... 601
DGH/UH Center of Hydrocarbon Exploration..... 553
Ikon Science..... 739
NuTech..... 1050
Rock Flow Dynamics..... 331
Southwest Research Institute..... 306

ROCK PHYSICS

Cegal LLC..... 215
Delft Inversion..... 1004
GeoSoftware..... 1716
Ikon Science..... 739
Petricore..... 1804
Qeye..... 1800
Sound QI Solutions Ltd..... 2031
Tech Limit..... 1747

SATELLITE IMAGE PROCESSING/DIGITIZING AND INTERPRETATION

CGG	1622
SambaNova Systems.....	1111

SCANNING

Geomap Company.....	1749
Neuralog	707

SEISMIC ACQUISITION — LAND

OptiSeis Solutions Ltd.....	1808
SAExploration	633
Sercel.....	1633
STRYDE	1035

SEISMIC ACQUISITION — MARINE

Engenius Software.....	1109
OptiSeis Solutions Ltd.....	1808
PGS.....	520
SAExploration	633
Sercel.....	1633

SEISMIC ANALYSIS

CGG	1622
Eliis	733
GeoMind.....	407
Geoteric.....	1239
Interactive Network Technology (INT).....	315
SambaNova Systems.....	1111
Subsurface Clarity, LLC.....	136

SEISMIC DATA ACQUISITION

Automated Seismics.....	1149
Baker Hughes.....	1923
DMT GmbH & Co. KG.....	1939
SAExploration	633
SISPROBE@EGIS	1839
STRYDE	1035
Telemark Energy Services LLC.....	1840
TGS.....	1501
Zhaofeng Sensor Equipment Co., Ltd.....	1448

SEISMIC DATA LIBRARY

CGG	1622
TGS.....	1501

SEISMIC DATA PROCESSING

DeepWave Consortium	1049
Land Seismic Noise Specialists, LLC	1113
SambaNova Systems.....	1111
STRYDE	1035
TRICON Geophysics	901

SEISMIC EQUIPMENT & INSTRUMENTATION

DMT GmbH & Co. KG.....	1939
Earth Pulse (Wuxi) Technology Co., Ltd.....	1450
FOSINA	1811
MIND Technology, Inc.	1509
SEAMAP a MIND Technology Business.....	1509
Seismic Source Co.....	1000
SINOPEC Geophysical Corporation	121
STRYDE	1035
Vinci Technologies	1811

SEISMIC EQUIPMENT LEASING / SALES

Earth Pulse (Wuxi) Technology Co., Ltd.....	1450
Zhaofeng Sensor Equipment Co., Ltd.....	1448

SEISMIC EQUIPMENT PARTS / REPAIRS / EXCHANGES

Earth Pulse (Wuxi) Technology Co., Ltd.....	1450
---	------

SEISMIC IMAGING

AspenTech Subsurface Science & Engineering.....	536
Bluware.....	330
CGG	1622
DeepWave Consortium	1049
EasyCopy Company	2023
FOSINA.....	1811
Geoteric.....	1239
PXGEO	1417
SISPROBE@EGIS	1839
STRYDE	1035
Subsurface Clarity, LLC.....	136
TRICON Geophysics	901

SEISMIC INTERPRETATION AND CONSULTING

ACT-GEO and Geology Field School.....	904
Applied Geodynamics Laboratory (AGL).....	902
AspenTech Subsurface Science & Engineering.....	536
Bluware.....	330
DGH/UH Center of Hydrocarbon Exploration.....	553
Eliis.....	733
Geoteric.....	1239
Land Seismic Noise Specialists, LLC	1113
OptiSeis Solutions Ltd.....	1808
Qeye	1800
Southwest Research Institute.....	306
Subsurface Clarity, LLC.....	136
TGS.....	1501

SEISMIC INVERSION AND ROCK PROPERTIES

Delft Inversion.....	1004
Qeye	1800
Sound QI Solutions Ltd.....	2031
Tech Limit.....	1747
TRICON Geophysics	901

SEISMIC INVERSION

Cegal LLC.....	215
DeepWave Consortium	1049
Delft Inversion.....	1004
dGB Earth Sciences.....	1737
Eliis.....	733
GeoSoftware	1716
Ikon Science	739
Land Seismic Noise Specialists, LLC	1113
Qeye	1800
TRICON Geophysics	901

SEISMIC MODELING ANALYSIS

ACT-GEO and Geology Field School.....	904
Delft Inversion.....	1004
GVERSE GeoGraphix	715

SEISMIC RECORDING SYSTEMS

DMT GmbH & Co. KG.....	1939
Vinci Technologies	1811

SEISMIC SOFTWARE

Interactive Network Technology (INT).....	315
---	-----

SEISMIC TO SIMULATION

Delft Inversion.....	1004
Rock Flow Dynamics	331

SEISMIC WELL DATA PROCESSING

dGB Earth Sciences.....	1737
-------------------------	------

SEISMOGRAPHS

DMT GmbH & Co. KG.....	1939
------------------------	------

Category Listings (continued)

SOFTWARE

Baker Hughes.....	1923
Blackriver Software Solutions.....	1148
Cegal LLC.....	215
Delft Inversion.....	1004
dGB Earth Sciences.....	1737
EasyCopy Company.....	2023
Eliis.....	733
Engenius Software.....	1109
GeoMind.....	407
GeoSoftware.....	1716
HRH Geology.....	1549
Ikon Science.....	739
Katalyst Data Management.....	623
OptiSeis Solutions Ltd.....	1808
Rock Flow Dynamics.....	331
SDI.....	641
Sound QI Solutions Ltd.....	2031
StratoChem Services North America, Inc.....	852
VSProwess.....	1349

SUB SEA NAVIGATION

Applied Acoustics.....	2032
Teledyne Marine.....	2038

SURVEILLANCE

Dynamic Aviation Group, Inc.....	1013
Planet.....	1648

SURVEYING

Planet.....	1648
-------------	------

THIN SECTIONING

EasyCopy Company.....	2023
-----------------------	------

TIME DOMAIN EM RECEIVERS

Geonics Limited.....	2034
----------------------	------

TOWED ARRAYS

Marine Magnetics Inc.....	1838
---------------------------	------

TRACK VEHICLES

National Compressed Air Canada Ltd.....	909
---	-----

TRAINING / EDUCATION SERVICES

ACT-GEO and Geology Field School.....	904
Eliis.....	733
OptiSeis Solutions Ltd.....	1808
Seismological Society of America.....	952
Southwest Research Institute.....	306
VSProwess.....	1349

UPSTREAM E&P A&D

Chevron.....	656
Coastline Exploration Limited.....	755
Envoi Limited.....	559
SambaNova Systems.....	1111

VEHICLES

Teledyne Marine.....	2038
----------------------	------

VELOCITY DATA

SISPROBE@EGIS.....	1839
--------------------	------

VSP

Delft Inversion.....	1004
FOSINA.....	1811
OptiSeis Solutions Ltd.....	1808
Vinci Technologies.....	1811
VSProwess.....	1349

WELL DATA PROCESSING

HRH Geology.....	1549
------------------	------

WELL LOG ANALYSIS

Blackriver Software Solutions.....	1148
Delft Inversion.....	1004
dGB Earth Sciences.....	1737
GVERSE GeoGraphix.....	715
HRH Geology.....	1549
Neuralog.....	707
Rock Flow Dynamics.....	331
SLB.....	1217
Tech Limit.....	1747
TGS.....	1501

WELL LOG LIBRARIES

Geomap Company.....	1749
Interactive Network Technology (INT).....	315

WELL LOG PRINTERS

EasyCopy Company.....	2023
Neuralog.....	707

WELL LOGGING

LIM Technology.....	1836
One-Geo.....	1649
SLB.....	1217
Studio X.....	236
TGS.....	1501
WellSight Systems Inc.....	1212

WELLSITE CHEMOSTRATIGRAPHY

Petricore.....	1804
----------------	------

Join the
 **SEG Community**

Passionate about geoscience?

Use our digital space to fulfill your ambitions with the support of our global community ignited by a shared passion. Find opportunities, connect, and exchange tips and tricks with people in your field.





International Meeting for Applied Geoscience & Energy
25-30 August 2024 • Houston, Texas
George R. Brown Convention Center

SAVE

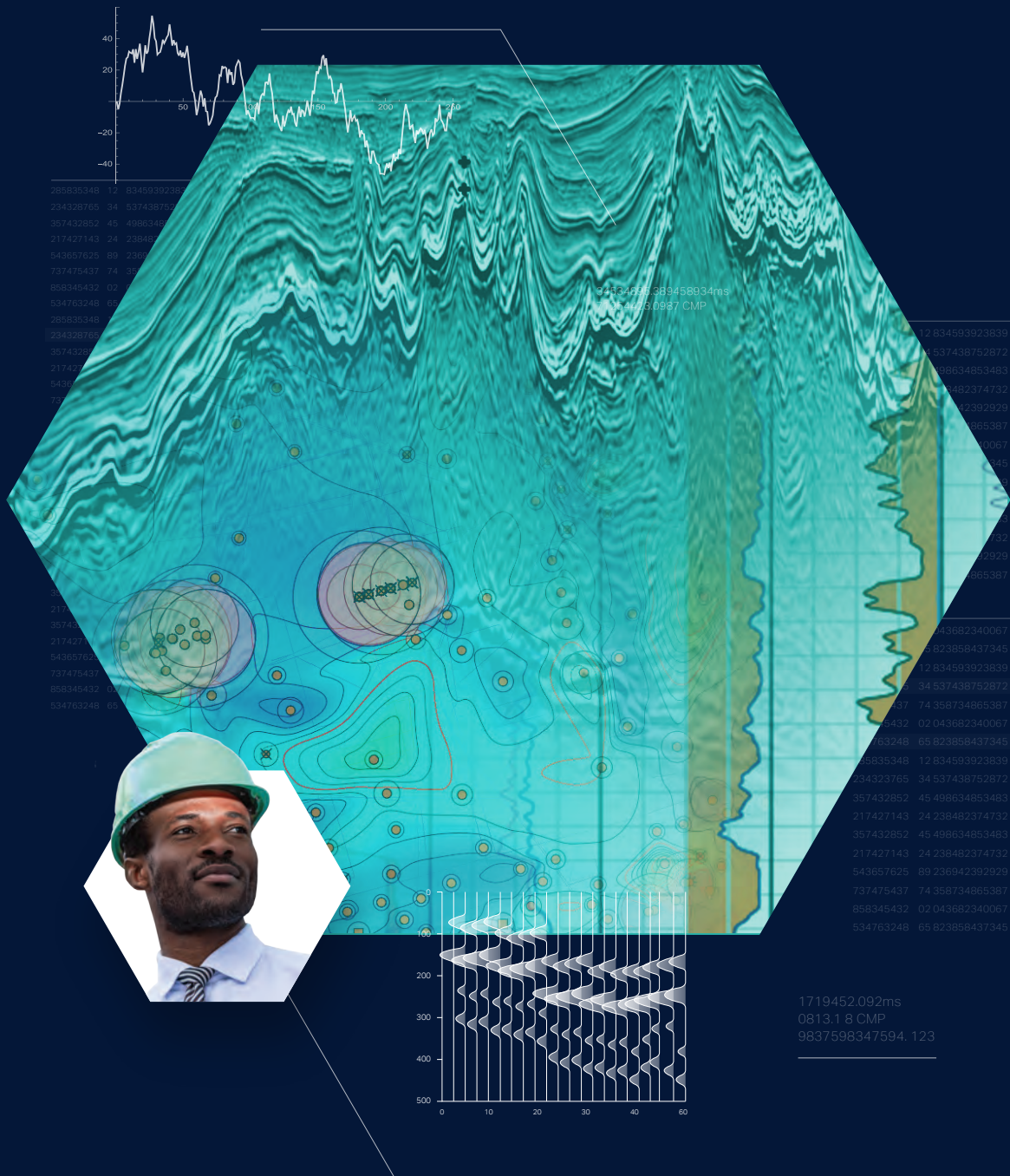
THE

DATE

IMAGEevent.org

Mark your calendars and start making your plans to attend, IMAGE '24, the premier meeting for geoscientists and energy professionals to connect and advance understandings, expand global networks, and create solutions for increased energy demand and challenges.





Powering the future of energy with data and insights

Across the energy spectrum, we engage our core geoscience expertise to create subsurface insights that empower the energy industry to make the best data-driven decisions.

We are committed to delivering data and insights to power the future of energy.



Start Your Energy Data Journey Here

TGS.com

Visit us at Booth #1501

