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The International Meeting for Applied Geoscience and Energy

28 August–1 September 2023

George R. Brown Convention Center
Houston, Texas

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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!

IMAGE Event App

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
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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

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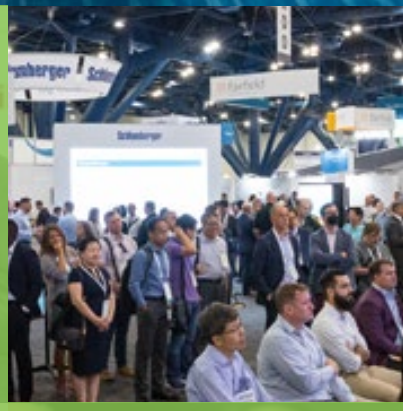
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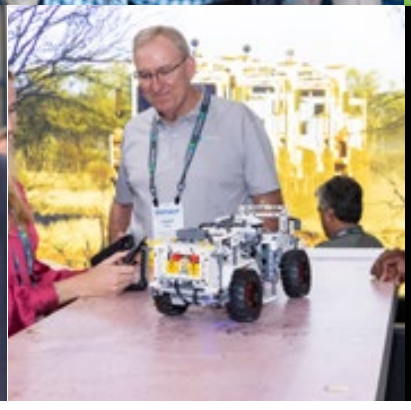


It All Starts Here










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



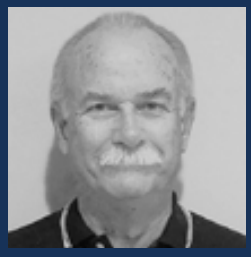
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Camelia Knapp
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Jessica Parker
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Laura Pommer
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Strategic Panels Co-Chair



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



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



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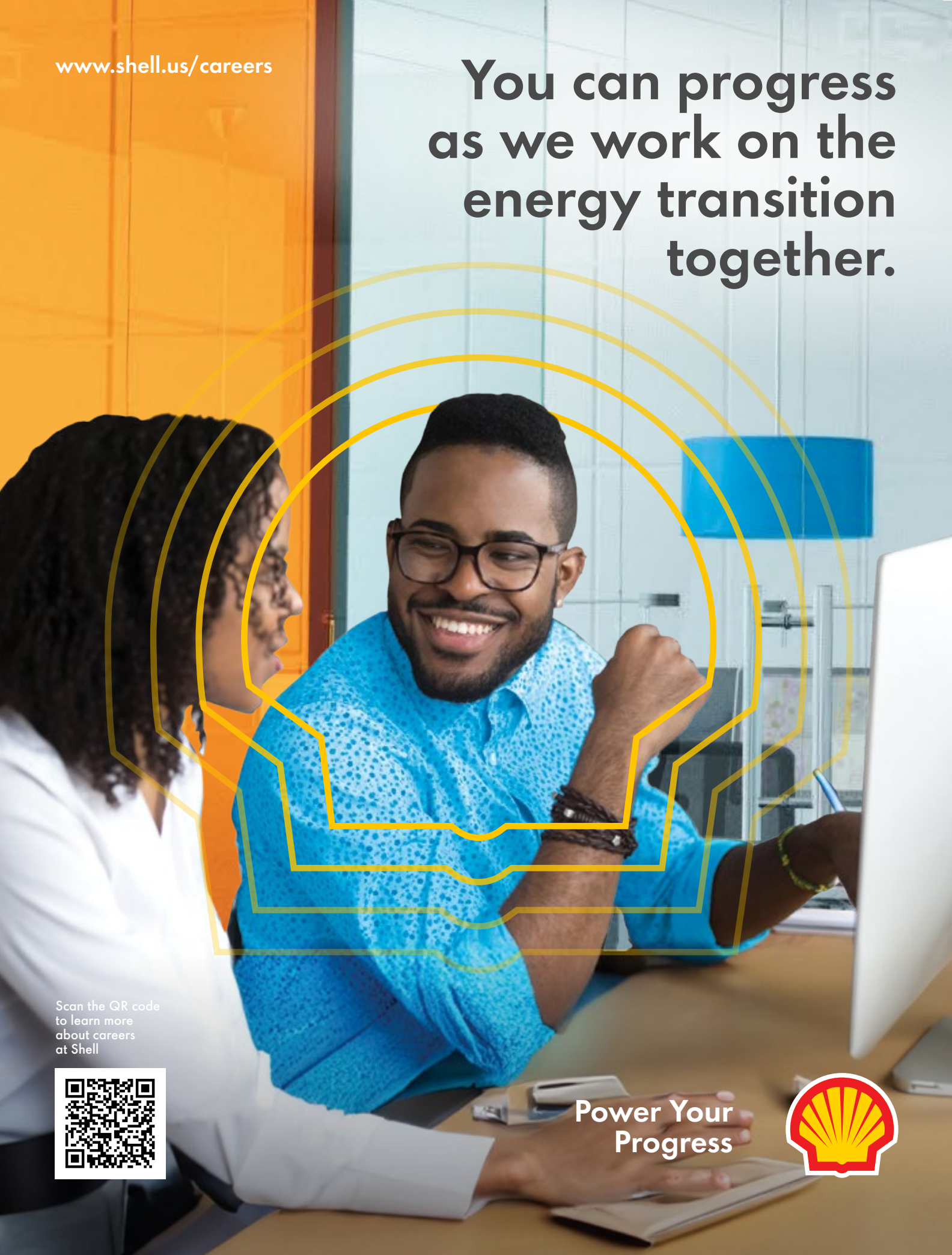
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Schedule at a Glance

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 CO_2 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.

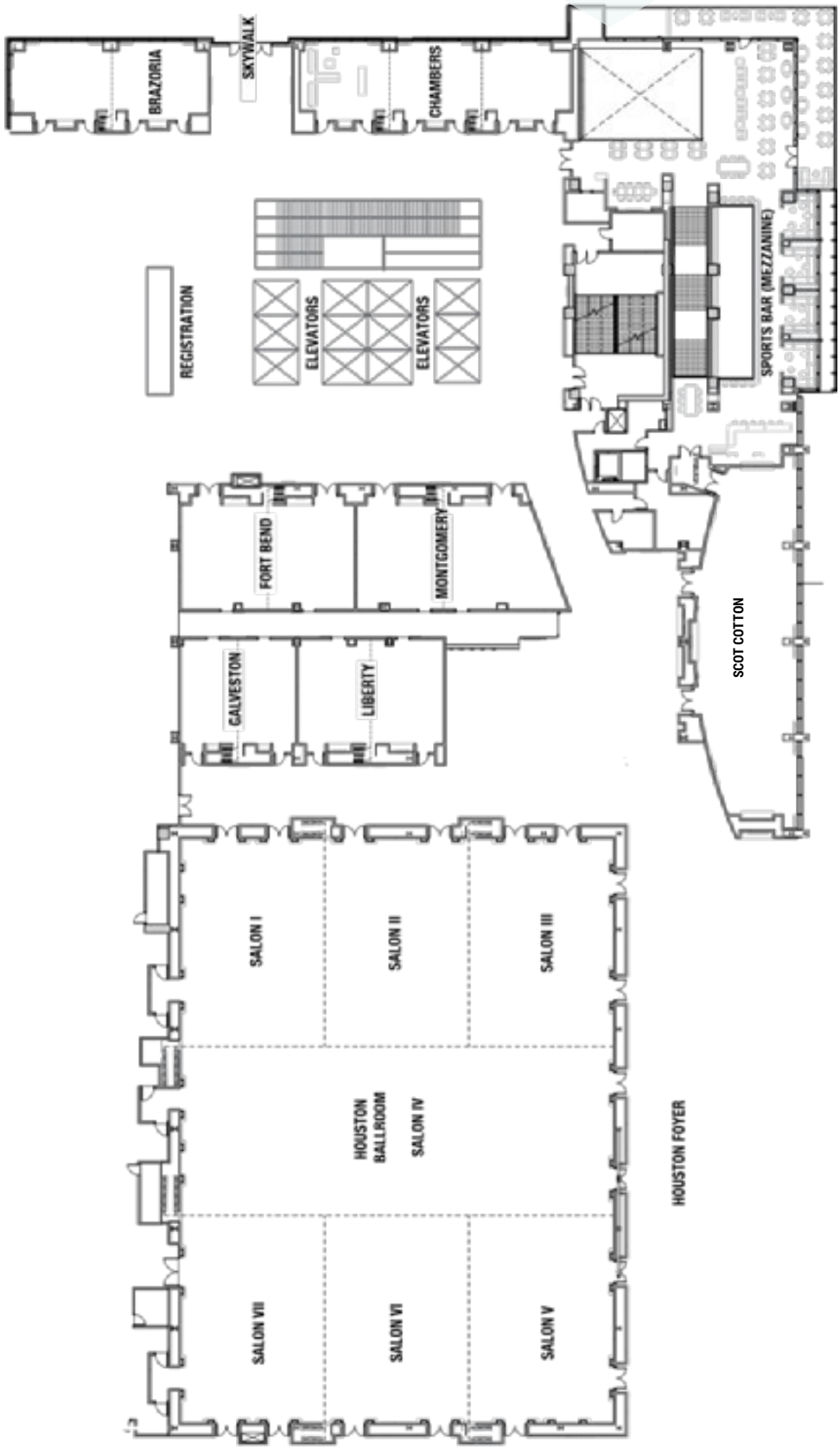
Luggage Check

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

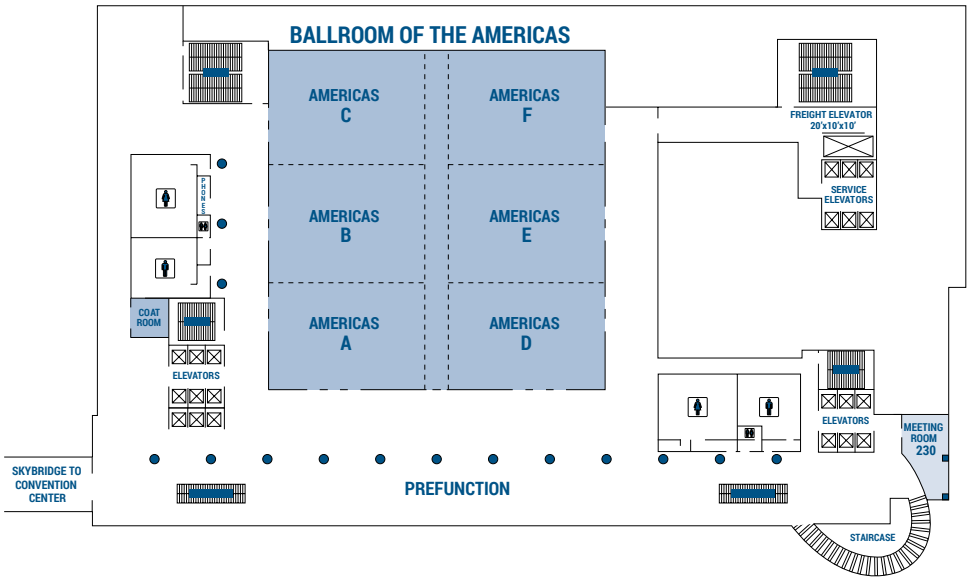
Marriott Marquis Houston

Level 2

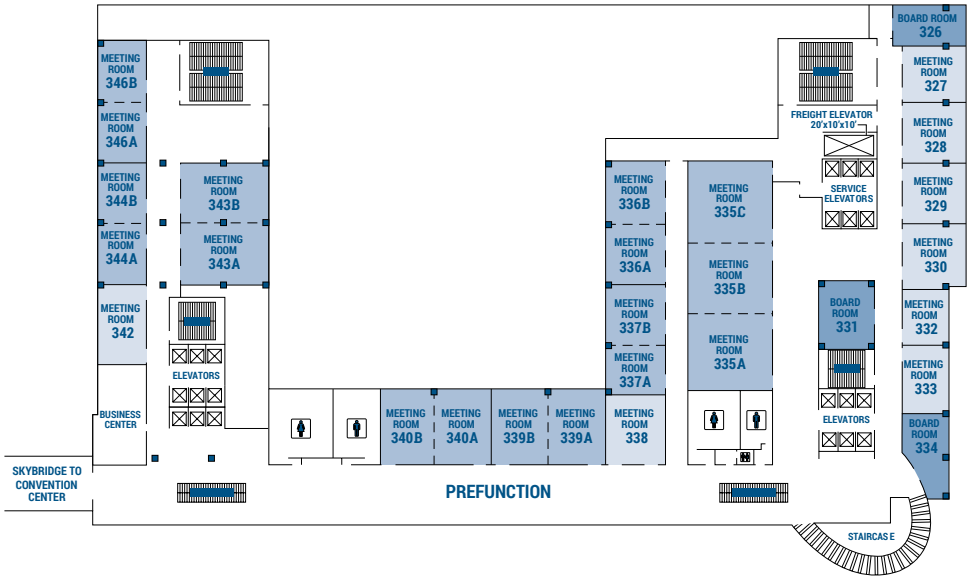


Hilton Americas — Houston

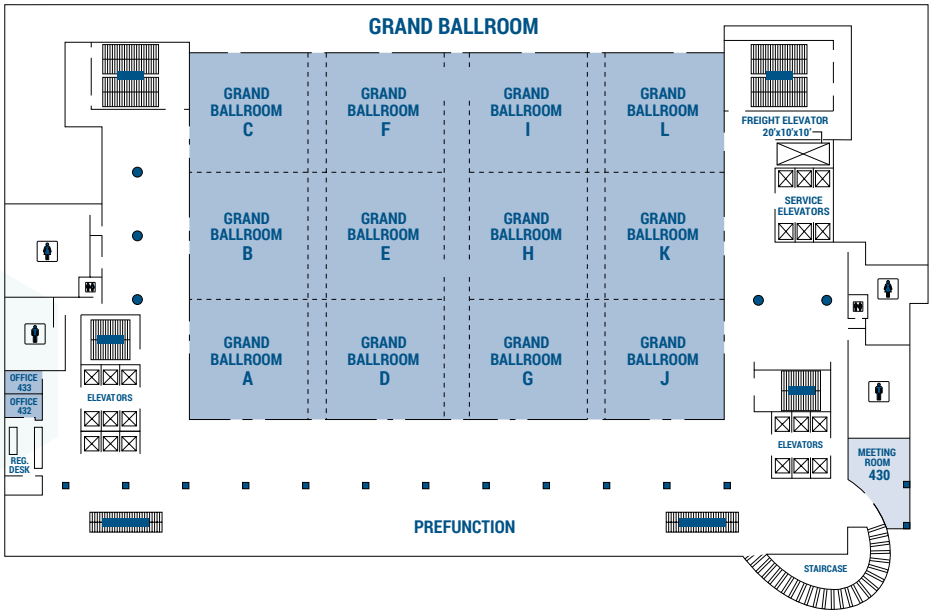
Level 2



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.

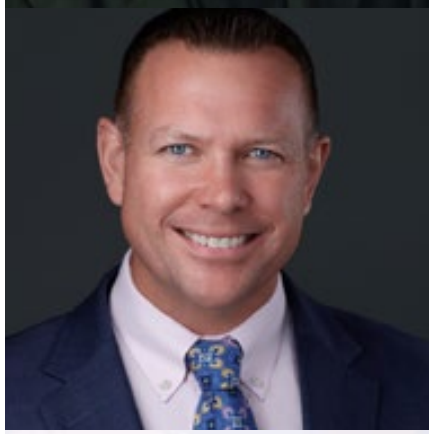
IMAGE 2023 is pleased to present **"Integrating Geology and Geophysics: Lessons from Giant Global Discoveries."** We celebrate the science and professionalism that bring about discoveries and the prosperity they bring. The organizers thank the presenters for stimulating Discovery Thinking in all of us!

- 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 CO_2 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 CO_2 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 CO_2 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?

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.

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.

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.

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.

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 though 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.

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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.









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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.

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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 Kurukshetra 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 CO_2 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

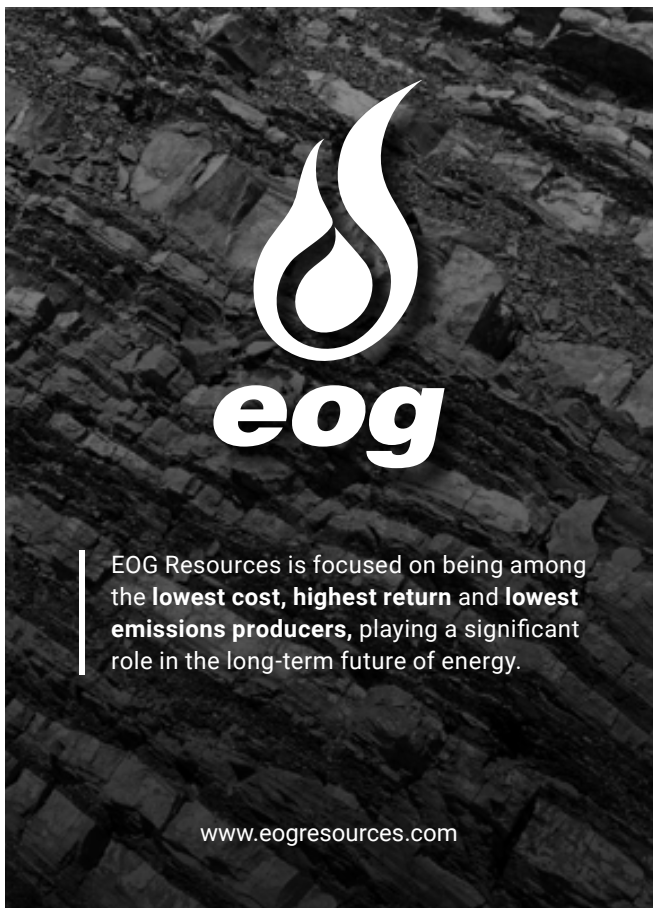


For the most up-to-date information visit imageevent.org

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.





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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 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 CO_2 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.

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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"

Join us in Booth #1355 on Tuesday, Wednesday, and Thursday at the times below to hear about exciting opportunities with new technology

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

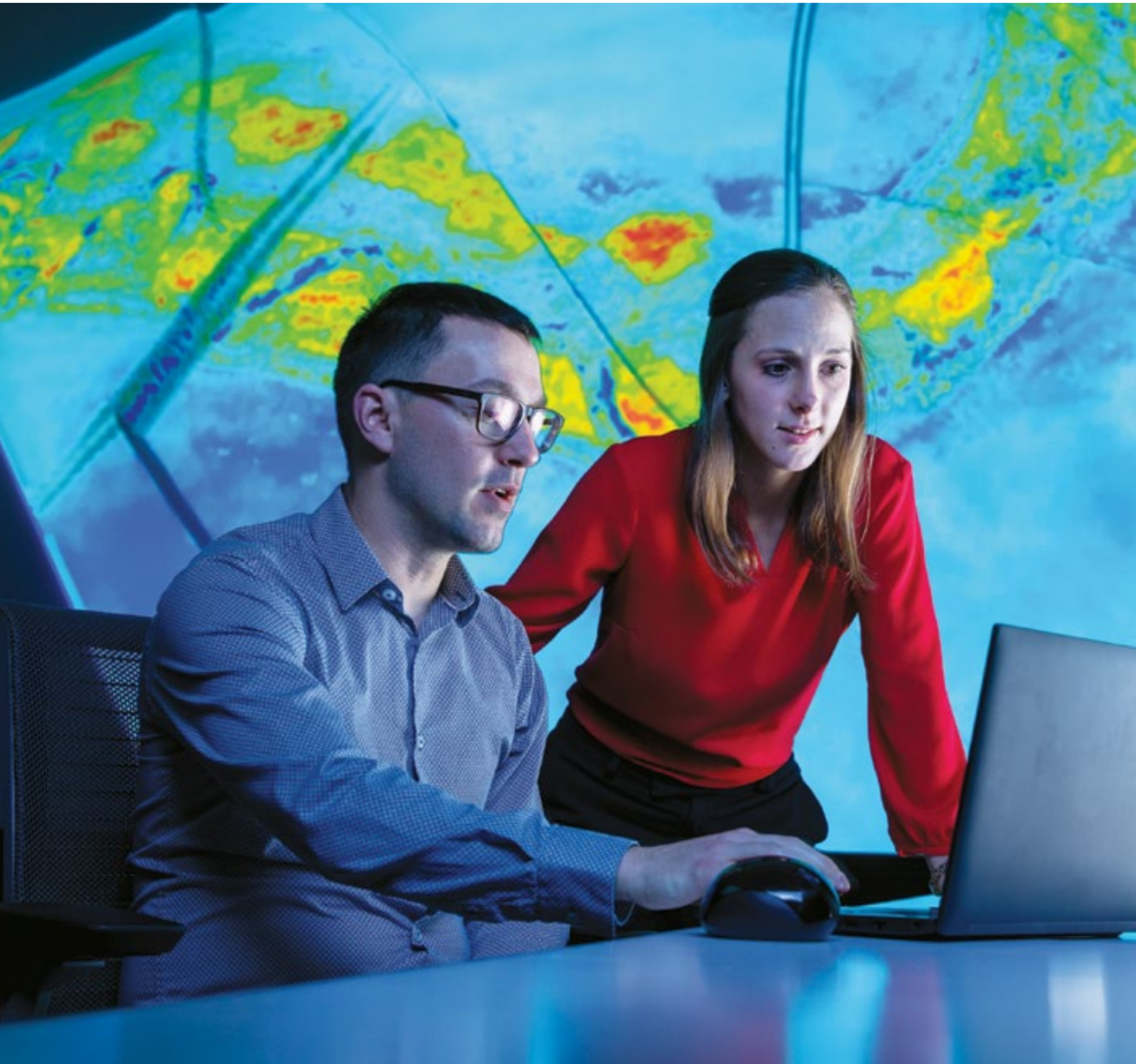
Thursday, 31 August

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

ExxonMobil

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 CO_2 and have cumulatively captured more anthropogenic CO_2 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*.



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.

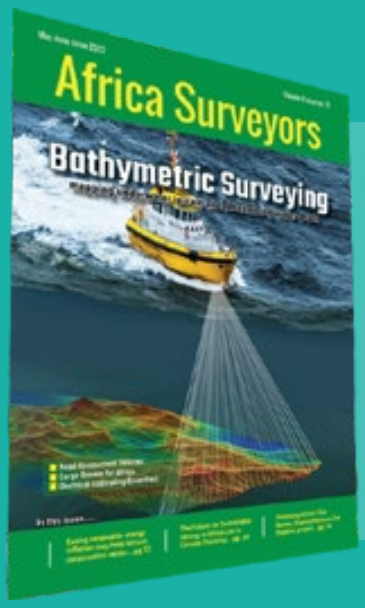
Please note that the number of seats available in each workshop is limited and offered on a first-come, first-served basis. If seats are available, movement between workshops will be permitted.

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.







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but NEVER regular

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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.

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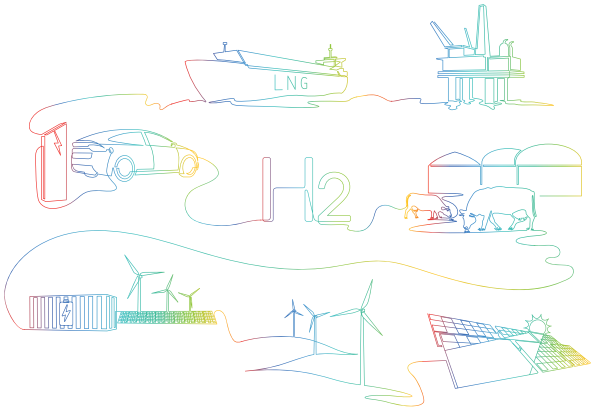


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Technical Program Information

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

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Howard Harper
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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 skeletonizaton 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 Savvaidis, 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

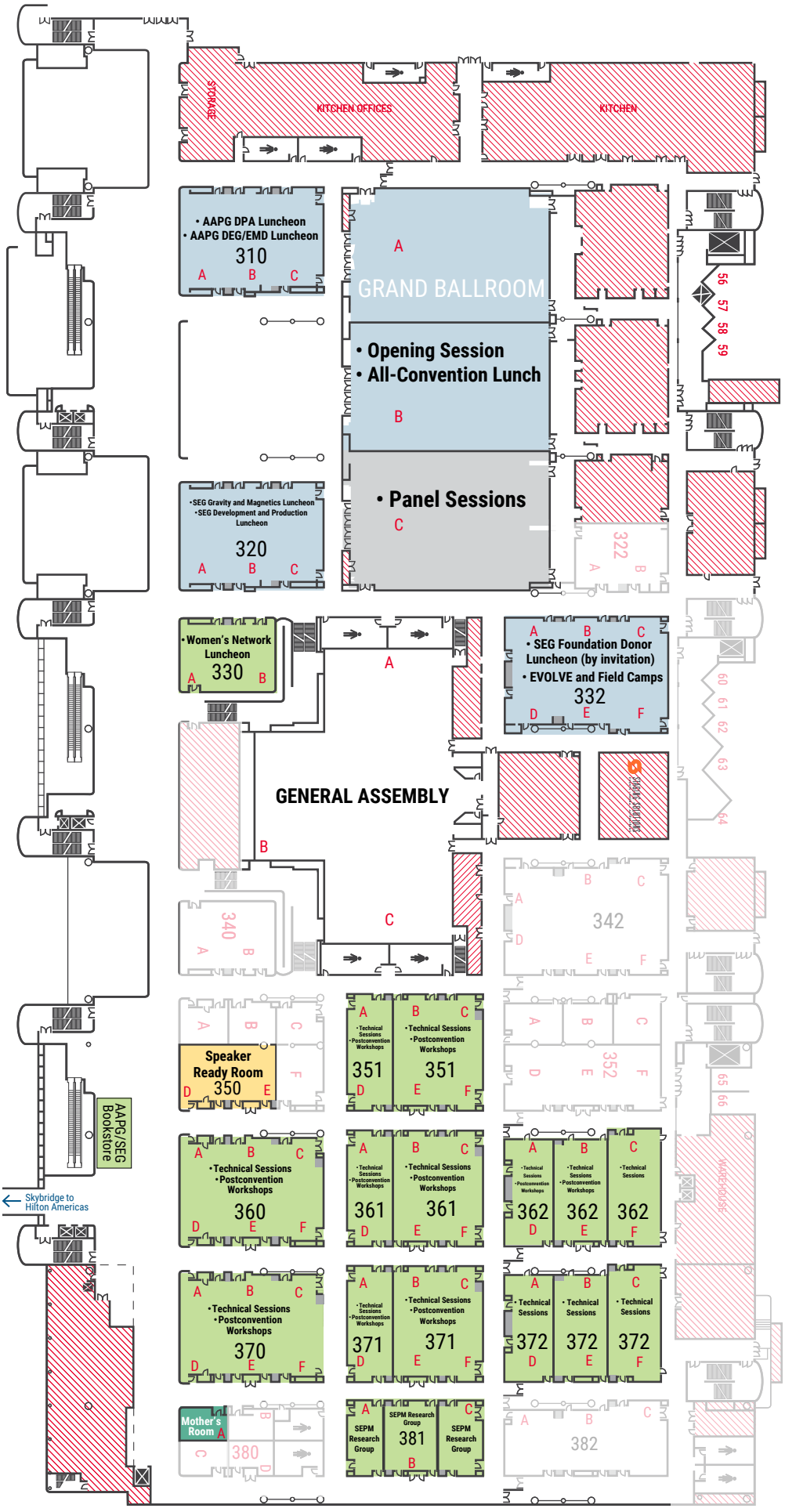
Paper Title Net to gross changes defining compound clinoforms in outcrop — The Morne L'Enfer Formation, Trinidad
Byline Ariana Osman and Ryan Ramsook, The University of the West Indies; and Ron Steel, The University of Texas at Austin
Speaker Ariana Osman

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



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 *without* Borders®: Applied Geoscience for Humanitarian Need 1	SS 7: Geoscientists *without* Borders®: 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	PBAA 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
CO_2.....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



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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

RC.....Integrated Reservoir Characterization
RP.....Rock Physics
SILIC.....Siliciclastic Systems
SMT.....Seismic Modeling and Theory
SP.....Seismic Processing
SS.....Special Session
STGM.....Structure, Tectonics, and Geomechanics
STUD.....AAPG, SEG, and SEPM Student Research
SUS.....Sustainability Energy Development and Environmental Geoscience
TL.....Time Lapse
UNCON.....Unconventional 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
NS 6 .....Dams, Levees, Coastal, and Cryosphere Geophysics

Technical Program Topics at a Glance (Continued)

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

STGM: Structure, Tectonics, and Geomechanics

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
STGM P1 ..... Contractional Tectonics
STGM P2 ..... Extensional Tectonics and Salt-related Systems
STGM P3 ..... Faults, Fractures, and Fluids 1
STGM P4 ..... Faults, Fractures, and Fluids 2

STUD: AAPG, SEG, and SEPM Student Research

STUD P1 ..... Student Session 1
STUD P2 ..... Student Session 2
STUD P3 ..... Student Session 3
STUD P4 ..... Student Session 4
STUD P5 ..... Student Session 5
STUD P6 ..... Student Session 6

SUS: Sustainability Energy Development and Environmental Geoscience

SUS 1 ..... Rock Stars of SDGs
SUS 2 ..... Global Water Crisis
SUS P1 ..... Earth Science in Action

TL: Time Lapse

TL 1 ..... Advances and Case Studies
TL 2 ..... Quantitative Analysis and Inversion
TL P1 ..... Feasibility, Processing, and Imaging of 4D Seismic
TL P2 ..... Improvements in Time-lapse Analysis

UNCON: Unconventional Resources

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
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
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

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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. Podgornova[1], S. Ali[1], T. Lei[1], P. Li[2], M. Johnson[3], L. Lee[3], Z. Jiao[3], J. McLaughlin[3], E. Borchardt[1], L. Liang[4], P. Bettinelli[5], J. Le Calvez[6] (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. Fuita[1], S. Nakayama[1], Y. Yamada[1], T. Mouri[2] (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. Li[1], G. Yu*[2], H. Liu[2], J. Song[2], Y. Zhang[1], Y. Chen[1], T. Yin[2], J. Han[1], Q. Li[1] (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. Chen[1], T. Mizuno[1], P. Bettinelli[2], J. Le Calvez[3] (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. Saller[1], F. Messa[2] (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. Rush[1], G. Rankey[2] (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. Scotchman[1], K. Heyburn[1], H. Smyth[1], 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. Wei[1], J. Sun[1], M. Sen[2] (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. Murphy[1], R. Farnell[1], C. Bellamy[1], A. Morgan[2] (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. Maas[1], H. Bedle[2], M. Ballinas[2], M. Matos[3] (1. Petrobras; 2. University of Oklahoma; 3. SISMO) (INT. AUD.: 4) Speaker: Marcus Maas

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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. Darrh[1], Y. Li[2] (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. Monsegny[1], D. Trad[2], D. Lawton[3] (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. Orozco[1], M. Louboutin[2], F. J. Herrmann[3] (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. Sun[1], J. Shen[3], P. Williamson[2] (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. Colombo[1], E. Turkoglu[1], E. Sandoval Curiel[1], A. Y. Taqi[2] (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. Wang[1], D. Yang[1], Z. Yang[1], Q. Feng[1], G. Long[3], Q. Wang[2] (1. Southern University of Science and Technology; 2. Shenzhen Tagen 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. Bai[1], O. Yilmaz[2] (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

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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. Zhang[1], S. Lu[1], M. D. Sacchi[2] (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. Wang[1], M. Ravasi[2] (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 CO_2 sequestration market:** W. Abriel[1], D. Alumbaugh[2] (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. Cumming[1], S. Sewell[2], M. Folsom[3], D. Feucht[4], G. Matson[5], K. R. Christopherson[6] (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. Capello[1], I. Stewart[2], A. C. Shaughnessy[3], D. M. Cox[4], E. Caslin[5], H. K. Handley[6] (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. Barens[1], E. Cauquil[2], K. Tarek[1] (1. TotalEnergies; 2. One Tech – Technical Lines – TECGEO) (INT. AUD.: 4) Speaker: Leon Barens

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. Dutta[1], D. Kiyashchenko[1], K. Wang[1], A. Libak[2], E. V. Bergfjord[2], I. Grøvik[2], R. Agersborg[2], H. Ruiz[2], A. Shen[1], D. B. Acuna[1], T. Noble[1] (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. Lecerf[1], A. Tantsereva[1], S. de Pierrepont[1], C. Reiser[2] (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. Tura[1], M. Held[1], J. Simmons[1], A. Kvilhaug[2], P. Dhelie[2] (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 Busetti 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

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. Adhiansyah[1], A. Santoso[1], R. Putra[1], A. Ramadhan[1], M. P. Pangestu[1], J. Jhonny[2], H. Ng[2], S. A. Wiyoga[2], C. Cavalleri[2] (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. Saputra[1], J. Hou[1], C. Torres-Verdin[1], S. Davydycheva[2], V. Druskin[2] (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. Nowaczewski[1], D. M. Sturmer[2] (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. Wicaksono[1], G. Gairola[1], P. Zhan[2], D. Guo[3], I. Hoteit[3], V. Vahrenkamp[1] (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. Chan[1], B. Albensaad[2], J. Humphrey[1], Y. Alzayer[3] (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. Griffith[1], J. Pospichal[2], E. de Kaenel[3], M. Pope[1], A. Donovan[1] (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. Murray[1], W. Power[2] (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. Schenk[1], C. Tu*[1], L. Ngo[1], C. Kularathna[2], D. Kornpihl[1] (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. Rodriguez[1], N. Hodgson[1], A. Mesa[1], R. Yorke[2] (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. Bird[1], W. Cathey[2], N. Dowla[3] (1. Bird Geophysical; 2. Earthfield Technology, LLC; 3. Dowla Analytics, LLC) (INT. AUD.: 3)
Speaker: Dale Bird

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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. Yang[1], A. Peace[1], C. Murphy*[2], A. Morgan[2], L. Clark[2] (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. Zhang[1], D. E. Bird[2] (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. Roth[1], E. Nerland[1], C. Twarz[1], D. Baltar[1], D. Helland-Hansen[2] (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 Fonseca[1], N. Dutta[3], T. Mukerji[2] (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. Sandhu[4], U. Waheed[1], C. Song[2], O. Dorn[3], P. Soupios[1] (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. Adebayo[1], S. Ehosioke[1], E. Emmanuel[1], A. M. Hopple[2], P. Regier[3], J. P. Megonigal[2], N. D. Ward[3], V. L. Bailey[3], K. Doro[1] (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 Maido rampart:** C. Truffert[1], s. Bouteille[1], B. Le Moigne[2], K. Samyn[2] (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. Cobb[1], J. Gruver[1], S. Acharya[1], S. Baniya[2], S. Hall[3], B. Han[1], E. Hayes[1], K. Neumann[1], K. Nicholson[1], M. Nishikawa[3], A. Pandey[2], S. Sharma[2], L. Sherpa[4], E. Subedi[2] (1. Ball State University; 2. Kathmandu University; 3. Ball State University; 4. Action for Nepal) (INT. AUD.: 2) Speaker: Chasalin Cobb

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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 Fam[1], M. Naghizadeh[2], O. Yilmaz[3], R. S. Smith[2], N. Esmaeilzadeh[4] (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. Li[1], Z. Hu[1], Y. Tian[1], W. Liu[1], Z. Xu[1], G. Yao[2] (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. He[1], Y. Kim[2] (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. Li[1], R. Chrisman[1], D. Baptiste[1], Y. Liu[2], D. Patel[2], C. Rivas Aroni[2] (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 reimaging 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. Bookes[1], D. Armentrout[2], M. Cvetkovic[3], T. Johnson[1], T. Sullivan[2] (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. Heagy[1], S. Kang[2], J. Capriotti[3], R. Cockett[4], D. W. Oldenburg[1] (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. Clay[1], 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. Ogunbo[1], A. F. Enow[2], S. Kim[1] (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. Xiong[1], D. Lumley[2] (1. University of Texas at

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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. Wrobel[1], J. Blangy[1], T. Rolland[1], E. Mutual[3], K. Rasmussen[2] (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. Almalki[1], A. Rees[2], M. Mohanna[1] (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 4) Speaker: Fahd Almalki

10:45 AM.... **Mobile oil estimate with integrated method of geochemistry and N_2 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. Hackley[1], R. McAleer[1], A. Jubb[1], B. Valentine[1], J. Birdwell[2] (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. Xiao[1], Z. Xiao[1], X. Zhang[2], Y. Zhang[1], J. Zhao[1], C. Fang[1], K. Shao[1], C. Yao[1], J. Yan[1] (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-Pola[1], S. Saleh[2], S. Fomel[2] (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. Lei[1], K. Walker[2], A. Donald[3], A. Bolshakov[2], L. Liang[1], R. Prioul[1], E. I. Velez[4] (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. Janson[1], S. Machin[2] (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-Gamundi[1], P. M. Harris[2], G. Eberli[3], S. J. Purkis[3] (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. Elliott[2], M. Everett[1] (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. Wang[1], Q. Liu[2] (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. James[1], J. Stoll[2], K. Noh[3], A. Swidinsky[3] (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. Zhou[1], L. Gross[2], D. Yang[1] (1. Southern University of Science and Technology; 2. The University of Queensland) (INT. AUD.: 4) Speaker: Yan Zhou

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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. Davies[1], A. M. King[2], S. Notiyal[3], A. Kumar[4] (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. Pearce[2], M. Franzel[3], E. Daneshvar[1], J. Hirani[3], D. Riley[4], N. Campion[5], G. Hildred[2] (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. Moscardelli[1], V. Smith[2], A. Hessler[3], I. Olariu[1], M. A. Lorente[2], E. Sivil[1], X. Liu[2] (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. Pearce[2], P. A. Cornick[2], E. Daneshvar[1], P. S. O'Neill[4], N. Campion[3], D. Riley*[4], G. Hildred[5] (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. Noble[1], J. Wang[1], W. Gouveia[1], S. Mothi[2], S. Huang[2], V. Vandrasi[2], Y. Yang[2], G. Soto[1], J. Durand[1], E. Beal[1], A. Malone[3], T. Yang[3], C. Gautre[1], M. Tatanova[1], J. Thornton[1], A. Abdel Aziz[1], C. Bressers[1] (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. Deng[1], H. Su[1], B. Bonala[1], J. Mei[1], J. Lewis[2], E. Ortiz[2], W. Martins[2] (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. Babalola[1], E. Townend[1], J. Wang[1], K. Bianchini[1], N. Chazalnoel[2], F. Rozario[2], B. Wray[2] (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. DeVito[1], D. E. Bird*[2], M. Cvetkovic[3] (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. Tertois[2], I. Ravve*[1], Z. Koren[3] (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. Dommisse[1], C. Kerans[1], J. Ayangade[3], D. Hodgetts[2] (1. University of Texas at Austin; 2. VRGeoscience Limited; 3. Craytive Technologies) (INT. AUD.: 1) Speaker: Robin Dommisse

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

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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: Prithwijit Chowdhury

2:10 PM..... **Modeling fault label uncertainty in 3D seismic volumes for machine learning workflows:** A. Mustafa[1], R. Rastegar[2], G. AlRegib[1] (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. Borisov[1], Y. Zhang[2], J. Ivanov[3], R. D. Miller[4], S. Sloan[5] (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 Duarte[1], J. Schwarzrock[1], D. Da Silva[1], J. M. Araujo[1], M. Ferreira[2] (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. Lei[1], H. Wang[1], C. Wu[2], K. Yang[1], J. Xiang[3] (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. Huang[1], Z. Wu[1], X. Xiao[1], Z. Zhang[2], P. Wang[3] (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 Barros[2], N. Martinho Cruz[1], D. Potomati Vaccaro Nascimento[1], M. P. De Almeida Junior[3], D. Dos Santos Marques[1], J. M. Nunes Cruz[1], P. S. Sales[1], A. Da Cruz Nascimento[1], C. E. de Borges Salles Abreu[1], D. Dopkin[3], S. Singh[3] (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

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2:10 PM..... **The CCUS landscape and vital role of geophysics:** A. Tura[1], Y. Ning[2] (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. Roche[2], R. Yani[3], D. Castro[3], H. Chen[3], G. Castellanos[3], O. Grijalva[3], J. Garcia[3], W. Jimenez[3], B. Coc[3], I. Ligorria[3], W. Perez[3], C. Perez[3], J. Tojil[3], D. Calan[3], L. Arriola[3], B. Cosenza-Muralles[1], D. Barral[1] (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. Ahmed[1], M. Elshalkany[1], W. Sauck[2], A. Abouelmagd[3], S. Mansour[4], I. El-Nekhiely[3], M. Abdelfattah[4] (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 unconventionals.

1:20 PM..... **Fracture characterization in shale and tight reservoirs using horizontal well sonic logging data:** P. Liu[1], N. Li[1], H. Wu[1], H. Zhao[2], M. Zhang[2], K. Wang[1], H. Fan[2] (1. Research Institute of Petroleum Exploration and Development; 2. China University of Petroleum (Beijing)) (INT. AUD.: 2) Speaker: Peng Liu

1:45 PM..... **NMR T_2 Cutoff Models for Tight Gas Sandstone Reservoir:** A. A. Alkhaldi[1], J. Gao[2], G. Hursan[3], H. Kwak[2] (1. Saudi Aramco; 2. Saudi Aramco; 3. Saudi Aramco) (INT. AUD.: 3) Speaker: Abdullah Alkhaldi

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. Gafurova[1], A. Khlyupin[2], A. Kalmykov[3], D. Korost[3], K. Al-Ramadan[4] (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. Gan[2], A. Petrik[1], G. Cedillo[3], B. Ruehlicke[2] (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. Tang[1], H. Li[2], Y. Su[1] (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. Wu[3], P. Liu[3], N. Li[3], Y. Huang[2], H. Zhang[3], W. Zhang[1], H. Tian[3], Y. Li[3], Z. Feng[3] (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. Alzayer[1], C. Tsingas[2], A. Dawood[1], A. Al-Ali[1] (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. Alqattan[1], R. Goldstein[2] (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. Eltom[1], R. Goldstein[2] (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. Zeller[1], D. W. Hunt[1], C. Aizprua[4], L. E. Gomis[3], A. S. Chandler[2], O. Wennberg[1] (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

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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. Liu[1], B. Yang[2], Y. Xu[2], D. Yang[1] (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. Frahm[1], R. Bell[1], R. Davy[1], J. Morgan[1], M. Warner[1], N. Bangs[2], R. Aria[3], S. Kodaira[3], S. Henrys[4], H. A. Debens[5] (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. Li[1], L. Bencherif-Soerensen[2], P. Folstad[2], B. Macy[1], S. Shaw[1], B. Roy[1] (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. Xu[1], G. Long[2], Y. Wang[2], H. Zeng[3], B. Wang[2], J. Zhu[2] (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. Wang[1], X. Wu[3], J. Chen[2] (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. Haghighat[2], U. Waheed*[1], G. Karniadakis[3] (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. Miller[1], Z. Lawrence[3], A. A. Martinez[2], J. Ivanov[4], D. Borisov[5] (1. Kansas Geological Survey; 2. ExxonMobil; 3. ExxonMobil Upstream Integrated Solutions Company; 4. Kansas

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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. Arenas[1], G. B. Savioli[1], J. E. Santos*[1], J. Carcione[2] (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 Basabe[1], M. Sen[2], J. Vamaraju[3] (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 aquired 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. Yang[1], J. Huang[1], H. Zhu[2], G. Mcmechan[2] (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. Sayed[1], F. Twynam[1], R. Bachrach[1], M. Cavalca[1], L. Leon[1], M. Shadrina[1], Q. Li[2], R. Biswas[2], D. Tebo[2], S. Buist[2] (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. Schuster[2], S. Feng[1] (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. Ore[1], E. Martin[2], I. I. Rubio-Cisneros[3], A. J. Girard[2], J. Ma[4], S. Kanakiya[5], O. A. Sanuade[6], A. Titov[7], R. de Souza[8] (1. West Virginia University; 2. Colorado School of Mines; 3. Téotl Geociencias e Ingeniería Aplicada; 4. Halliburton Far East Pte. Ltd; 5. University of Houston; 6. Oklahoma State University; 7. Fervo Energy; 8. Avanade Australia) (INT. AUD.: 1) Speaker: Tobi Ore

SS 6 Use of Seismic Data for Critical Mineral Exploration

Session Chairs: Ana Curcio and Anais 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. Schijns[1], J. Townsend[2], D. Haddow[3], M. Shawcross[3], K. Ehrig[3] (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. Naghizadeh[1], R. S. Smith[2], K. Rubingh[1], R. Sherlock[1], J. Ayer[1], B. Lafrance[1], s. cheraghi[1], d. snyder[1], J. Vergne[3], D. Hollis[3], A. Mordret[3] (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. Bell[1], G. Turner*[1], M. Megebry[1], G. Bhat[2], B. Knell[2] (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. Shragge[1], R.

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Krahenbuhl[1], A. Swidinsky[2], J. Bradford[1], E. Kounika[3], N. Yalo[3] (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. Persaud[1], R. Ghose[2], M. Thant[3], Z. Kyaw[3], K. Win[3], T. Oo[4], Z. Win[3], P. Lwin[3], A. Min[3], T. Thiha[3], T. Oo[3], T. Yadanar[3], M. Khant[3], P. Than[3] (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. Rankey[1], M. Perez[2], T. Uriam[3] (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. Garcia[1], P. P. Flaig[2], C. Denison[4], T. Demchuk[3], T. Adatte[5], J. Spangenberg[5], S. Castelltort[6], L. G. Moscardelli[2] (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. White[2], S. C. Atchley[2], G. E. Stinchcomb[1], S. Dworkin[2], E. Petsios[2] (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 unconventionals.*

3:40 PM..... **Accurate characterization and modeling of heterogeneous shale samples based on deep learning: Implication for upscaling:** Y. Wu[1], K. Liu[1], C. Lin[1], C. Dong[1], S. An[2], P. Ma[1] (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 unconventionals:** 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. Grechishnikova[2], S. Prochnow[1] (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



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. Liu[1], K. Liu*[2], L. Yang[3], C. Li[1] (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 Daher[1], A. Thebault[1], G. Suzanne[1], B. Auffray[1], M. Callies[1], 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. Schenk[1], C. Tu*[1], H. Maulana[2], P. Mullin[1], A. Hassan[1], J. Azwa[2], F. Deraman[2], S. Sulaiman[2], F. Ali[2], B. Wei[2], A. Abdullah[2] (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. Gairola[1], S. Thiele[2], P. Khanna[3], A. Ramdani[1], Y. Panara[1], G. Frijia[4], A. Cipriani[5], P. Swart[6], R. Gloaguen[2], V. Vahrenkamp[1] (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. Universita' 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. Taberner[1], A. Fadili[2], S. Berg[3], F. Marcelis[1], Y. Gao[3], R. Bouwmeester[5], W. De Boever[4], M. Boone[4], J. Dewanckele[4], T. Sorop[3], J. van der Horst[3] (1. Shell Global Solutions International B.V.; 2. Shell Global Solutions International B.V.; 3. Shell Global Solutions International B.V.; 4. TESCAN 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. Guo[1], S. Operto[1], H. S. Aghamiry[2] (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. Kalita[1], L. Casasanta[2] (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. He[1], G. Hu[1], J. Ma[2], b. zhang[1], W. Xu[3] (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. Matos[1], 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. Ruan[1], R. Ghose[1], W. A. Mulder[2] (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. Hennings[1], K. Smye*[2], J. Ge[1], E. A. Horne[3], J. Nicot[1] (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..... **CO_2 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 CO_2 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. Phan[1], W. Hu[2], A. Abubakar[3] (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. Pesce[1], S. Soler[2] (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. Cheng[1], D. Yang[1], Q. Luo[2], S. Han[2] (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. Hu[1], X. Wei[2], X. Wu[3], J. Sun[4], J. Chen[5], Y. Huang[6] (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. Boateng[1], D. D. Wemegah[1], W. Apoh[2] (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. Allison[2], S. Adcock[1] (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 Ukpor Metropolis, Nigeria:** C. M. Arukwe[1], G. E. Nwafor[2], T. E. Onyebum*[2], O. T. Emenaha[1], C. V. Orabueze[2], I. C. Meniru[2], C. V. Ahaneku[1], E. J. Amasiani[1] (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. Rim[2], M. Zhang*[1], Y. Li[1] (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 CO_2 layers:** G. Papageorgiou[1], M. Chapman[2] (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. Holt[1], A. Bakk[2], E. Fjær[2], S. Lozovyi[2], K. Mews[1] (1. NTNU; 2. SINTEF Industry) (INT. AUD.: 3) Speaker: Rune Holt

Wednesday, 30 August

8:50 AM..... **Seismic dispersion and attenuation caused by CO_2 EOR-related flooding:** A. Ghaderi[1], M. Landrø[2], M. Prasad[3] (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. Chapman[1], C. Macdonald[1], A. Yao[1], A. Robinson[2], J. Bull[2], G. Bayrakci[3], T. Minshull[2], T. Henstock[2], G. Papageorgiou[4] (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. Zhang[2], C. Masarik[1], A. Baharvand Ahmadi[4], D. Bai[3] (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. Krishnasamy[1], J. Sheng[1], R. Florendo[1], J. Beck[1], J. A. Sierra[2], S. Murphy[2], J. Siebens[2], Y. Iwo-Brown[2] (1. TGS; 2. EOG Resources) (INT. AUD.: 3) Speaker: Terence Krishnasamy

8:50 AM..... **High resolution angle gather tomography with Fourier neural operators:** S. Crawley[1], G. Huang[2], R. Djebbi[1], J. Ramos-Martinez[3], N. Chemingui[4] (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. saxSaxtonon, 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. Macquet[1], D. Lawton[1], K. Innanen[2], B. Kolkman-Quinn[3], J. Cooper[2] (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. Pevzner[1], B. Gurevich*[1], R. Isaenkov[1], P. Shashkin[1], K. Tertyshnikov[1], A. Yurikov[1], S. Yavuz[1], J. Correa[2], S. Glubokovskikh[1], T. J. Wood[2], B. Freifeld[3], P. Barraclough[4] (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. Brooks[1], X. Fang[1], T. Chen[1], G. Knapo[1], H. Wilkinson[2] (1. SensorEra Inc; 2. GreenPowerUSA (GPUSA)) (INT. AUD.: 3) Speaker: Nicholas Brooks

9:15 AM..... **Reservoir plume imaging with controlled source electromagnetics:** K. Strack[1], C. Barajas-Olalde[2], S. Davydycheva[1], A. Y. Paembonan[3], P. Soupios[4] (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. Zhiqiang[1], D. Gao[2], S. A. Graham[3], G. Wu[1], T. Duan[1] (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. He[3], S. Li[2], 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

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

Session Chairs: Abdullah Alkhaldi 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. Cao[1], Z. Jin[1], R. Zhu[2], K. Liu[1] (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. Alfraih[1], K. Arouri[2], P. Luo[2], A. Alraddadi[2], M. Mohanna[2] (1. Saudi Aramco; 2. Saudi Aramco) (INT. AUD.: 5) Speaker: Ibrahim Alfraih

8:50 AM..... **Petrophysical characterization of Lower Cretaceous marly chalk through ^{1}H-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. Cao[1], Z. Zhang[1], J. Guo[1], 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. Ramdani[1], G. Gairola[1], A. Omar[1], P. Khanna[2], H. Hoteit[1], V. Vahrenkamp[1] (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. Giles[1], K. Giles[2], M. Rowan[3], K. Maza[1], N. Christie-Blick[1], D. Lankford-Bravo[2] (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. Rankey[1], K. P. Jakobsen[2] (1. University of Kansas; 2. COWI) (INT. AUD.: 3) Speaker: Gene Rankey

11:35 AM .... **The upward-shallowing model for carbonate pertidal 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 CO_2 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 CO_2 enhanced gas recovery and CO_2 storage in shales: A critical review:** E. A. Okoli[1], K. Oladoyin[2], C. C. Akaolisa[1], D. O. Ikoro[1], U. B. Onyeawuna[1], C. Uma[1], H. Okafor[1], D. O. Iheanacho[1] (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 ($SCCO_2$):** T. Zhang[2], Y. Li[1], E. Jiang[3], Y. Lin[1], J. Zou[1], W. Zhou[1], C. He[1] (1. Chengdu University of Technology; 2. Research Institude of Petroleum Exploration & Development; 3. China National Petroleum Corporation) (INT. AUD.: 3) Speaker: Tianze Zhang

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. Hu[1], M. V. Eaid[1], S. Keating[1], X. Cai[3], K. Innanen[2] (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. Routh[1], S. R. Nayak[1], J. Dorsett[2], K. Bandyopadhyay[2], Y. Cha[1], V. Gudipati[1], R. Neelamani[1], G. Palacharla[1], S. Conway[1], A. Raphael[2] (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. Zhang[1], R. Zhai[2], Y. Wang[3] (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. Dighans[1], R. Kavanagh[1], B. Davis[1], A. Quarles[1], P. H. Hennings[2] (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. Keene[1], J. Zawila[2], T. Lupo[1], R. Gibson[1], A. R. Huffman[4], R. Storniolo[3] (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. Fang[1], T. Chen[1], N. J. Brooks[1], A. R. Huffman[2], T. Lupo[3], R. Storniolo[4] (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. Huffman[1], T. Lupo[2], R. Storniolo[5], A. Keene[2], J. Zawila[3], E. Hiemstra[5], T. Chen[4], E. Marlow[6], X. Fang[4], N. J. Brooks[7], S. Bowman-Young[6], N. Fleegal[8], A. Ramsay[6] (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. Zhou[1], Y. Ma[2] (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. Abubakar[1], H. Di[1], Z. Li[1], H. Maniar[1], T. Zhao[2] (1. SLB; 2. SLB) (INT. AUD.: 2) Speaker: Aria Abubakar

11:10 AM .... **What samples must seismic interpreters label for efficient machine learning?:** R. Benkert[1], M. Prabhushankar[2], G. AlRegib[1] (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. Nicoll[1], J. Jennings[1], K. Heyburn[1], C. Gravestock[1], 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.

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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. James[1], M. Manzi[2] (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. Leong[1], T. Zhu[2] (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. Asirifi[1], X. Chen[1], P. Ratre[2], R. Ng[2], A. Mohammadi Gh[1] (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. Fantello[1], K. Hon[2], M. Huebner[3] (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. Salazar[1], C. Rabe[1], A. R. Papa[2] (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* (Ikon 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. Stright[1], B. Daniels[2], S. Hubbard[4], B. Romans[3] (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. West[1], C. Olariu[2], R. Steel[1] (1. University of Texas at Austin; 2. The University of Texas at Auststin) (INT. AUD.: 2) Speaker: Logan West

11:10 AM .... **Complex heterolithic turbidites of the Cretaceous Katafito Formation and implications for the evolution of the Northern Tethys Seaway, Pindos Basin, Greece:** S. M. Hudson[1], J. M. Sevy[2], S. Naone[1] (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. Wang[2], H. Zhuo[1] (1. Sun Yat-Sen University; 2. South China Sea Institute of Oceanology, CAS) (INT. AUD.: 3) Speaker: Zhina Wang

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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. Zhang[1], L. Dong[1], J. Wang[1], Y. Wang[1], 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 Fuck[1], L. Casasanta[2] (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. Ding[1], X. Hu[2], K. Wang[1], J. Guo[1], C. Liu[3], H. Zhang[3], Y. Liu[3] (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. Ramdani[1], A. Bakulin[2], V. Vahrenkamp[1] (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. Zhu[1], H. Sun[2], W. Peng[2], X. Fu[1], S. Zhao[1], Z. Zhou[1] (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. Zhang[1], H. Tan[2], Y. Zhang[2] (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

CO2 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 CO_2: A joint industry investigation of CO_2 storage monitoring via the integrated simulation of geology, flow, geomechanics and geophysics:** W. Abriel[1], M. Fehler[3], J. Stefani[2] (1. Orinda Geophysial; 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 CO_2 sequestration project in Southern Colorado:** Y. Ning[1], D. N. Herman[1], A. Tura[1], J. Bridgeman[2], D. O'Brien[2] (1. Colorado School of Mines; 2. Oxy) (INT. AUD.: 3) Speaker: Yanrui Ning

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2:10 PM..... **Geomechanical modelling for geological CO_2 storage offshore Northern Australia:** D. Dewhurst[1], Y. Zhang[2], P. Schaubs[2], L. Stalker[1], K. Michael[1] (1. CSIRO Energy; 2. CSIRO Mineral Resources) (INT. AUD.: 3) Speaker: David Dewhurst

2:35 PM..... **Probabilistic assessment of CO_2 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. Lopez[1], Y. Guo[2], Q. Li[2], b. yu[1], C. Zhang[1] (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. Costa[1], S. L. da Silva[3], A. A. Karsou[1], R. Moreira[1], J. L. Lopez[2], M. Cetale[1] (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. Wenbin[1], H. Tang[1], X. Liu[1], Y. Wang[2] (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. Zhang[1], Z. Deng[2], Y. Wang[2] (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. Masfara[1], C. Weemstra[1], T. Cullison[2] (1. Delft University of Technology; 2. Stanford University) (INT. AUD.: 6) Speaker: La Ode Marzujriban Masfara

1:45 PM..... **Automated processing development at a CO_2 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. Dommisse, 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. You[1], E. Li[2] (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 Nikaitchuq Field, North Slope Alaska:** C. L. McCullagh[1], J. Zuber[2] (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. Urdaneta[1], C. Jeong[2], X. Wu[3], J. Chen[4] (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 Jiajia 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. Shahin[1], S. Riahi[2] (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**

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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 H_2 exploration:** M. Zhang[1], Y. Li[1], G. Ellis[2] (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. Alkhimenkov (Massachusetts Institute of Technology) (INT. AUD.: 3) Speaker: Yury Alkhimenkov

2:10 PM..... **WITHDRAWN**

2:35 PM..... **Influence of pore-scale anisotropy on elastic wave attributes:** I. Vasconcelos[1], C. Mejia[1], D. Roehl[1], J. L. Lopez[2] (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. Duffy[1], N. Fernandez[1], C. Jackson[2], F. Peel[1], G. Apps[1], M. Hudec[1] (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. Daniels[1], L. Stright*[2], S. Hubbard[3], B. Romans[4] (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. Sun[1], P. Williamson[2] (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. Singh[1], M. Ojha[1], 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. Singh[1], K. Osypov[1], G. Baines[2] (1. Halliburton; 2. Halliburton) (INT. AUD.: 3) Speaker: Satyan Singh

2:35 PM..... **Deep learning-based Vz-noise attenuation for OBS data:** J. Sun[1], A. Jafargandomi[1], J. Holden[1], S. Grion*[2] (1. Shearwater GeoServices; 2. Shearwater GeoServices (Non-Author) (INT. AUD.: 3) Speaker: Sergio Grion

Oral Sessions

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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. Maurya[1], E. Auken[1], A. v. Christiansen[2], L. Liu[2], J. Naundrup[3], A. la Cour-Harbo[3], M. J. Nielsen[3] (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. Doro[1], M. B. Adebayo[1], V. L. Bailey[2], X. Chen[2], A. M. Hopple[2], P. Jiang[2], B. Li[2], Z. Li[2], J. P. Megonigal[3], N. D. Ward[2] (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. Mao[1], M. Campillo[2], R. D. van der Hilst[3] (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. Xiang[2], X. Yin[2], K. Li[1], Z. Ma[2] (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: Zihe Xu

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. Shang[1], G. Baeten[2], h. macintyre[1], M. Kryvohuz[3], P. Herrmann[4], S. Ronen[4] (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. Udengaard[1], D. Bookes[2], H. Flores[2] (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. Ou[1], S. Zaragoza[1], Z. Lawrence[2], L. Donaldson[1], C. Tapie[3], K. Begay-Jackson[1], B. deMartin[1], L. Pastore[4], G. Febriany[4] (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-Hansen[1], F. Roth[2], E. Nerland[3], A. McKay[4], B. Kjølhamar[5] (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 CO_2 storage potential on the Central Kansas Uplift, Kansas, USA:** J. Eleson[1], F. Hasiuk[2], C. Ridley[2], J. Raney[2] (1. GeoIntegra Consulting, LLC; 2. University of Kansas) (INT. AUD.: 4) Speaker: Jason Eleson

4:05 PM..... **Regional CO_2 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

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4:30 PM..... **Potential role of CO_2 hydrate in marine CCUS: Hydrate phase boundary considerations for the Gulf of Mexico:** Y. O. Azeez[1], I. A. Pecher*[1], C. Knapp[2], S. Alam[2], R. Coffin[1] (1. Texas A&M University - Corpus Christi; 2. Oklahoma State University) (INT. AUD.: 4) Speaker: Ingo Pecher

4:55 PM..... **Hydrothermal reservoirs as a CO_2 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 traveltime shifts estimation method for wave-equation reflection traveltime 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. Vigh[1], X. Cheng[2], B. Bai[1], J. Xu[1], K. Glaccum[1] (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. Shah[1], M. Warner[1], A. Umpleby[1], T. Nangoo[1], H. A. Debens[2] (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. Cui[1], X. Huang[1], G. Ma[2], L. Fang[2], Y. Liao[2] (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. Eddy[2], H. Garcia[1] (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. Liu[1], 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. Lu[1], 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. Lin[1], M. Mezghani[2], C. Xu[1], W. Li[1] (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. Katole[1], A. Abubakar[1], E. Hoekstra[1], S. Ryali[1], T. Zhao[2] (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. Lu[1], P. Lelièvre[2], C. Farquharson[1] (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. Oncul[1], J. Kingman[2], L. Slater[1] (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. Bhattacharya[1],

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S. Sharma[1], V. Agrawal[1], M. Dix[2], T. Wagner[3] (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. Apeiranthitis[1], J. Hirani[2], L. Sardisco[2], M. Franzel[3], J. Tepsell[2], T. Pearce*[3], J. Martin[3] (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. Ellis[1], S. Gelman[2] (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. Ma[1], T. Li[1], J. Zhang[2], G. Lu[1], P. Wei[2], H. Zuo[1] (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. Xie[1], S. Wang[2], J. Gao[1], X. Yong[1], S. Yuan[2], R. He[1], E. Wang[1], G. Yan[1] (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. Leng[1], J. Nicot[1], K. Smye[2], P. H. Hennings[3] (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. Sayers[1], S. Leaney[3], T. Bratton[2] (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. Allo[1], E. A. Ayolabi[2] (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. Wang[1], L. Zhao[2], D. Han[3] (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. Gallop[1], L. Vernik[1], F. Contreras[2], J. Restrepo[2], C. S. Blanco[2], G. Alvarez[2] (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. Sun[1], A. Downard[2], F. Laugier[3] (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. Wang[1], A. Limaye[1], A. J. Chadwick[2] (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. Abbasi[1], M. Alfarraj[5], D. Borisov[6], V. Jayaram[2], I. Alam[4], B. Sarosh[3] (1. Oklahoma State Univeristy; 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

Wednesday, 30 August

SS 15 Detecting and Characterizing Orphaned Oil and Gas Wells

Session Chairs: Sina Saneiyan 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. Weiss[1], R. W. Hammack[2], G. D. Beskardes[1], A. Darrh[1], C. Kohnke[2], C. Morency[3], S. Mukherjee[3], Y. Wu[4] (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. Mansourian[1], S. Saneiyan[2] (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 Demirci[1], S. Aktepe[2] (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. Yuhang[1], Y. Liu[2], H. Dong[1] (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. Liu[1], I. Tsvankin[2] (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. Karr[1], A. Lewis[1], R. Bianco[2], S. Klug[1] (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. Tapie[2], V. Brytik[1], S. Ou[1], L. Donaldson[1], A. Ouzounis[1], I. Fabuel-Perez[1], M. Guillois[1], D. Eke[1], S. Lee[1], M. Khalil[3], G. Febriany[3], L. Pastore[3] (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. Bakulin[1], D. Neklyudov[2], I. Silvestrov[1] (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. Koripella, 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 CO_2 monitoring:** X. Li[1], C. Huang[1], M. Pan[2], X. Shan[2], J. Chen[2] (1. University of Houston; 2. University of Houston) (INT. AUD.: 6) Speaker: Xiaoliang Li

Oral Sessions

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8:50 AM..... **2D seismic surveys as an alternative for CO_2 monitoring in the North Dakota CarbonSAFE Project:** C. Barajas-Olalde[1], D. C. Adams[1], H. Gonzalez[2], M. Zhang[2], P. E. Benitez[2], R. J. Klapperich[1], W. D. Peck[1], P. Doulgeris[2] (1. Energy & Environmental Research Center, University of North Dakota; 2. Delft Inversion) (INT. AUD.: 3) Speaker: Cesar Barajas-Olalde

9:15 AM..... **Enhancing CO_2 leakage detectability via dataset augmentation:** H. Erdinc[1], A. Gahlot[2], M. Louboutin[2], F. J. Herrmann[2] (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. Li[2], G. Yu*[1], J. Zhao[2], Y. Fan[1], D. Huang[2] (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. Solans[3], E. Zamboni[3], A. S. Calvert[1], A. Grandi[3], J. Fasterling[3], M. Radigon[2] (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. Calvert[1], E. Zamboni[1], J. BRUNELLIERE[1], A. Grandi[1], K. LIAO[2], M. Galyga[2], H. Moore[2] (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. Sayed[1], F. Twynam[1], R. Bachrach[1], P. Caprioli[1], M. R. Holloway[1], Q. Li[2], R. Biswas[2], D. Tebo[2], S. Buist[2] (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. Hao[1], C. Chen[1], Z. Wei[2], J. Mei[3], L. Jiang[4], S. Buist[4], O. Egbue[4], L. Lopez[4], D. Tebo[4] (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. Dy[1], M. Wang[1], S. Mothi[1], D. Dobesh[1], S. Ding[1], O. Andrade[2], P. Ortega[2], A. Vázquez Cantú[3], S. Domínguez García[3], G. López Leyva[3] (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. Zorgnotti, 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

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. Di[1], A. Abubakar[2] (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. Li[2], Z. Jia[1], C. Song[2], W. Lu[2] (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. Fry[2], J. Buckner*[1], J. Zuech[1], P. Harris[1], B. Shea[1] (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. Li[1], p. gang[1], J. Wang[1], T. Wei[2] (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. Zhang[1], J. Wang[1], T. Liu[2], D. Hou[1], Z. Zuo[1] (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. Pearce[2], D. Riley*[3], E. Daneshvar[1], N. Campion[4], G. Hildred[2], J. Hirani[5] (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. Michael[1], C. Scheibe[2] (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. Cornick[1], N. Campion[1], I. Prince[3], R. Hackworth[2] (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. Schieber[1], C. Pellegrini[2], D. Bish[1], T. Tesi[2], A. Asioli[2], I. Sammartino[2], F. Trincardi[2] (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. Brandolin[1], M. Ravasi[2], T. Alkhalifah[2] (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. Chen[1], S. Yu[1], Y. Guo[2] (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. Sui[1], X. Wang[2], J. Ma[3] (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 Melo[1], S. Chen[1], S. Nakayama[2], N. Yamamoto[2], L. Arechiga Salinas[1] (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

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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. Maierhofer[1], A. Flores Orozco[2], N. Roser[2], J. K. Limbrock[3], A. Kemna[3], U. Morra di Cella[4], C. Hauck[1] (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. Cassiani[1], I. Barone[2], M. Pavoni[2], J. Boaga[1], R. Deiana[3] (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. Versteeg[1], R. Soltanian[2], M. Van Der Werf[3], G. Partridge[1], D. Johnson[1] (1. Subsurface Insights; 2. University of Cincinnatti; 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 Busetti 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. Smart[1], A. J. Cawood[1], D. Ferrill[1], K. Smye[2], P. H. Hennings[2] (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. Hayman[1], B. Allen[1], J. Walter[1], F. Suriamin[2], P. Ogwari[1], K. Murray[3] (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. Wernwck 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. Brooks[1], T. Chen[1], S. Li[1], X. Fang[1], G. Knapo[1], H. Wilkinson[2] (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. Widmaier[2], C. Roalkvam[1], O. Orji[2] (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. Clapp, B. Biondi (Stanford University) (INT. AUD.: 3) Speaker: Min Jun Park

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10:45 AM.... **Incorporating refraction time-shifts into geophysical monitoring systems for monitoring shallow CO_2 accumulations:** M. Steel[2], G. Busanello[1], M. Branston[1], M. Paydayesh[1], S. de Ridder[3] (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 CO_2 injection with rapid-repeat time-lapse vertical seismic profile data:** X. Cai[2], K. Innanen[2], Q. Hu[2], S. Keating[2], M. V. Eaid[2], D. Lawton[1] (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. Yin[1], M. Louboutin[2], O. Møyner[3], F. J. Herrmann[4] (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. Pevzner[1], P. Shashkin[1], B. Gurevich*[1], K. Tertyshnikov[1], S. Yavuz[1], R. Isaenkov[1], S. Glubokovskikh[2], J. Correa[2], T. J. Wood[2], B. Freifeld[3] (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. Li[1], G. Jin[2] (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. Kazei[1], H. Liang[2], A. Shaiban[3], A. Dawood[3] (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. Qu[1], W. Pan[2], K. Innanen[1] (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 CO_2 saturation and pore pressure:** Q. Hu[1], K. Innanen[2] (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. Liu[1], Y. Luo*[2], B. Eppinger[3] (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. Yang[1], N. Chemingui*[2], J. Ramos-Martinez[3], D. Whitmore[1] (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 10^6-year delta cycle in the Paleocene Lower Wilcox Group:** A. Hessler[1], E. Sivil[2], I. Olariu[2], X. Liu[3], V. Smith[3], M. A. Lorente[3], L. G. Moscardelli[2] (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 Alreesh[1], C. Sandu[2], K. Arouri[3], P. Srinivasan[2] (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. Liborius[1], A. SIMONE[2], D. TONNER[1], S. Hughes[1], C. MAYORGA[1] (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 interbed 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. Garcia[1], C. L. Cabarcas[2] (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

MLDA 10 Reservoir Modeling 2

Session Chairs: Sailendra Mahapatra and Salma Sinan

Location: 351B

Synopsis: Enhancing reservoir modeling with machine learning

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applications.

10:20 AM.... **Generative seismic kriging with normalizing flows:** R. Orozco[1], M. Louboutin[2], F. J. Herrmann[3] (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. Ye[1], J. Chang[1], Y. Xiao[1], Y. Zhao[2], C. He[2] (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. Prochnow[1], N. S. Raterman[2], M. Swenberg[2] (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. Wolf[1], J. Zhang[2], M. Walker[1], P. Paramo[1], J. Winterbourne[1], R. Biswas[1], A. Roy[1], C. Decalf[1] (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. Holbrook[1], S. P. Walker[2] (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. Wang[3], T. F. Baars[1], J. E. Storms[1], A. W. Martinius[1], P. D. Gingerich[2], H. A. Abels[1] (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. Guo[1], P. McCabe[2], Z. Feng[1], Z. Zhang[1], J. Guo[1] (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. Blymyer[1], S. Riseman[2], G. Busanello[2] (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. Hong[2], M. Ravasi[1], H. Ltaief[2], D. E. Keyes[2] (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. Huang[2], D. Li[1], W. Chai[1], H. Gu[1], Y. Lv[1], Y. Wang[1], L. Huang[1], W. Luo[1] (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. Meng[1], X. Xu[1], H. Zeng[1], J. Sun[1], D. Li[1], C. WANG[2] (1. Research Institute of Petroleum Exploration & Development-Northwest (NWGI), Petrochina; 2. Mud-logging Company of Great Wall Drilling Company) (INT. AUD.: 3) Speaker: Huijie Meng

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11:10 AM .... **Self-supervised noise suppression for seismic while drilling applications:** C. Birnie[1], S. Liu*[1], A. Dawood[2], A. Bakulin[2], T. Alkhalifah[1] (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 fcan 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. Abriel[1], N. Moldoveanu[3], S. Oakley[2] (1. Orinda Geophysial; 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. Gale[1], S. E. Laubach[1], E. Ukar[1], S. J. Elliott[1], A. Fall[1], S. Peng[1], J. E. Olson[2] (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. Eichhubl[1], N. Doungkaew[1], X. Chen[2], O. Callahan[1] (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. Sun[1], L. Zhao[1], J. Geng[1], H. Chen[1], Z. He[2] (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. Zhang[1], M. Araya-Polo[2], A. Shrivastava[1] (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. Acedo[1], M. D. Sacchi[2] (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 CO_2 plume evolution from seismic shot gathers:** A. Sun[2], Z. Leong*[1], T. Zhu[1] (1. The Pennsylvania State University; 2. The University of Texas at Austin) (INT. AUD.: 5) Speaker: Zi Xian Leong

1:45 PM..... **Monitoring subsurface CO_2 plumes with sequential Bayesian inference:** T. Yu[1], R. Orozco[2], Z. Yin[3], M. Louboutin[4], F. J. Herrmann[5], A. Gahlot*[6] (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Georgia Institute of Technology; 4.

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..... **CO_2-EOR monitoring using time-lapse FWI with walkaway VSP datasets in a carbonate field onshore Abu Dhabi:** Y. Yamada[1], S. Nakayama[1], T. Ishiyama[1], M. Mochizuki[1], T. Mouri[2], H. Shimizu[2], A. Aljaberi[4], A. M. Al Hamedi[3] (1. INPEX Corporation; 2. JOGMEC; 3. ADNOC Onshore; 4. ADNOC) (INT. AUD.: 4) Speaker: Yuji Yamada

2:35 PM..... **On the Nature of CO_2/brine mixing in assessing feasibility of CCS monitoring:** K. Walker[1], H. Malcotti[1], A. Posenato Garcia[1], L. Wei[2], A. Bolshakov[2] (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. Zhu[1], J. Ajo-Franklin[2], J. Correa[3], Y. Ma[4], J. Saw[5], L. Luo[5], K. Soga[5] (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 Perez[1], Y. Liu[2] (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. Alfarhan[1], M. Ravasi[2], T. Alkhalifah[1] (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. Miftakhutdinov[1], U. Waheed[2], A. Sandhu[1], K. Shukla[3], G. Karniadakis[3] (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. Luo[1], J. Harrist[2], A. Sampaolo[3], M. Gonzalez[2] (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. Kristensen[1], T. Mohamed[2], C. Torres-Verdin[3], 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. Mohamed[1], M. Kristensen[2], C. Torres-Verdin[4], O. Mullins[3] (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 (Stratamage Energy Services) (INT. AUD.: 1) Speaker: Patricia De Lugao

1:45 PM..... **The offshore basins of Newfoundland: Are we just getting started?:** R. Etherington[2], K. Reuber[3], M. Cvetkovic[1], S. Whidden[2] (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 Conceicao[1], J. Eccles[2], B. Duffy[3], L. Strachan[2] (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**

Thursday, 31 August

characterization: Z. Zhang[1], N. Liu[2], Y. Yang[1], Z. Wang[3], R. Liu[4], J. Gao[1] (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. Shehata[1], M. Ahmed[2], A. Kassem[3] (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. Kang[1], L. Xiao[1], G. Liao[1], G. Luo[1], 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. Pawar[3], P. Devarakota[1], F. O. Alpak[3], J. Snippe[2] (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 CO_2 sequestration:** A. Gordon[1], R. Cova[2], E. Mutual[1], B. Goodway[1], S. Leaney[1], W. Pardasie[1], M. Ng[3] (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 García[1], A. Carrillat[1], P. Cisneros[1], V. Lucas[1], P. Bermeo[1], P. González[1], J. Rodas[1], P. Zamora[1], W. Torres[2], J. Garrido[2], K. Luzuriaga[1] (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. Ostrikoff, 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. Morantes[1], T. Engelder[1], P. Lovely[1], R. Grimm[2], C. Swenberg[2], R. Caldwell[2], E. Reat Wersan[1] (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 (Univeristy 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. Tsingas[1], W. Jeong[3], M. Almubarak[2] (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. Hu[1], T. Shao[2], S. Phan[3], H. Di[4], A. Abubakar[5] (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. Bakulin[1], D.

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Neklyudov[2], I. Silvestrov[1] (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. Uhlemann[1], C. Wang[1], I. Shirley[1], S. Wielandt[1], C. Ulrich[1], S. FIOLLEAU[2], B. Dafflon[1] (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. Wagner[1], T. D. Sullivan[2], D. R. Glaser[3] (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. May[1], D. Schroeder[1], T. Young[2] (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 Orozco[1], C. Moser[1], L. Aigner[1], U. Morra di Cella[2] (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 Saneiyan

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. Kang[1], R. Knight[1], M. Goebel[1], S. Purves[2], R. Cockett[2] (1. Stanford University; 2. Curvenote) (INT. AUD.: 1) Speaker: Seogi Kang

2:10 PM..... **Joint inversions with the SimPEG framework:** J. Capriotti[1], L. Heagy[2], S. Soler[3], T. Astic[4] (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. Farris[1], G. Barnier[3], E. Biondi[2] (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. Iqbal[2], A. Hughes[2], S. Busetti[1] (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. Cawood[1], D. Ferrill[1], K. Smart[2] (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. Qassim[1], C. M. Burberry[1], T. D. Frank[2], M. L. Searls[1] (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, l. 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. Gisolf[1], 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. Deyu[1], C. Li[1], y. j. cai[2], J. Diao[3] (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 nodes, HAUVs, etc.*

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3:10 PM..... **Development of a novel seismic acquisition system based on fully autonomous gliding ocean bottom nodes:** F. Mancini[1], B. Hollings[1], D. Dieulangard[1], G. Mangano[1], D. Gjini[1], T. Manning[2], H. Debens[3] (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. Lopez[1], S. Grandi[2], D. R. Juliano[1], A. A. da Silva[3], V. E. Beal[4], T. Miranda[4], R. Carvalho[3], S. Dunn[5], N. Street[5], C. Kennard[5], J. Rietjens[6], F. Lima Santos[6], E. Alexandre[6], C. Nevoso[7] (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. Gahlot[1], M. Louboutin[2], F. J. Herrmann[3] (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 CO_2 field data using neural network predicted passive seismic locations:** H. Wang[1], Y. Chen[2], T. Alkhalifah[4], Y. Lin[3] (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 Mejia[1], Y. Yuan[2], K. Dugan[2], Q. Li[3] (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. Mizuno[1], J. Le Calvez[2] (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 Ning[1], M. Craven[1], T. Tokar[1], P. Benet[2], M. Merlino[2], S. Dasgupta[1] (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. Gu[1], Y. Zhong[1], P. Wu[2], B. Kang[3], G. Prieto[5], M. Fehler[4], X. Lu[1] (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. Li[1], H. Mikada[2], J. Takekawa[2] (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. Debens[1], D. Knodel[1], A. Umpleby[2], C. Mavropoulos[3] (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. Shan[2], J. Chen[1] (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. Sevy[1], S. M. Hudson[2], P. M. Dietrich[4], M. Linford[3] (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,

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D. J. Tonner, C. MAYORGA, A. Liborius, S. Hughes (Diversified) (INT. AUD.: 2) Speaker: Carl Symcox

4:00 PM..... **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. Adeniyi[1], J. M. Moldowan[2], J. Dahl[3], M. S. Hubbard[1] (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. Awejori[1], W. Dong[2], C. Doughty[3], N. Spycher[3], M. Radonjic[1] (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. Dai[1], X. Huang[1], W. Cui[2], K. Li[2], D. Zhang[1], J. Tang[1] (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. Shahzad[1], M. I. Hajana[2], S. Ahmad[1], U. H. Awan[1], S. Mustafa[1], S. Akhtar[3] (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. Li[1], H. Zhou[1], R. Guo[1], M. Li[1], A. Abubakar[2] (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 networks:** R. Kanfar[1], T. Mukerji[2] (1. Stanford University; 2. Stanford University) (INT. AUD.: 1) Speaker: Rayan Kanfar

4:25 PM..... **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. Setoyama[1], S. Garel[2], D. Beti[1], S. Kanungo[1], C. Kesler[1] (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. Smith[1], I. Olariu[2], D. Bord[1], L. G. Moscardelli[2], E. Sivil[2], A. Hessler[3], X. Liu[1], R. Howe[1], M. A. Lorente[1] (1. Ellington Geological Services; 2. Texas Bureau of Economic Geology; 3. Deep Time Institue) (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. Daves[1], M. A. McGlashan[2], J. Simo[3] (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. Liu[1], B. Chen[1], S. Chakraborty[1], H. Pham Huu[2], N. Islam[1], J. Van Gestel[1] (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. Xin[1], S. Jiawen[1], L. Qing[3], S. Qian[1], Z. Min[1], Q. Qunli[1], W. Zhong[1], D. Xiao[2], T. Zichang[1], F. An[1], W. bo[1], F. Hanzhou[1], L. Qiang[1], H. Kongzhi[1] (1. BGP, CNPC; 2. BGP.CNPC; 3. Dagang oilfield) (INT. AUD.: 4) Speaker: Chen Xin

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. Folkestad[1], R. J. Steel[2] (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. Tang[1], F. Song[1], L. Bear[1], M. Widmer[1], L. Wilson[1], V. Gudipati[1], R. Bansal[1], S. Knapp[2], C. Xia[3], W. Zhao[4], Y. Huang[4] (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. Fu[1], J. Gao[1], W. Sun[2], Y. Wang[2], F. Li[3] (1. China University of Geosciences, Beijing; 2. Haiyou mansion, No.6 Courtyard, Taiyanggong street sourth, 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. Wood[1], M. Rahimi[1], S. Rahimi[2] (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-Lopez[1], J. M. Lorenzo[1], F. T. Tsai[2] (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. Reilly[1], L. V. Swan[1], M. Durcanin[2], R. Ianev[2] (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. Hudec[1], F. Peel[1], J. I. Soto[2], G. Apps[1] (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. Pensa[1], A. Delgado Huertas[2], M. Aljahdali[3], A. Afifi[1] (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. Pattnaik[1], N. rao[1], A. Al-Mutairi[1], R. Dolbier[2], S. Al-Ajmi[1], A. Albloushi[1], T. Bloushi[1], M. Al-Mutawa[1], M. Al-Ajmi[1] (1. Kuwait Oil Company; 2. Shell) (INT. AUD.: 3) Speaker: Chinmaya Pattnaik

Poster Sessions

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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. Wang[1], J. Ming[1], Q. Liu[1], J. Diao[2] (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

CO2 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 CO_2 storage potential of the Illinois Basin Decatur Project (IBDP):** G. Shodunke[3], C. Henriques[2], Q. Al Maqbali[1], M. P. Madariaga[4], O. Alo[3], K. Buckmire[2], I. Ferreira[2] (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. Park[3], T. Chen[2], R. Alfaro-Diaz[1], B. Delbridge[1], J. Webster[1] (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 CO_2 storage capacity for the Cambrian-Ordovician Arbuckle Group and selected Ordovician formations, Oklahoma:** A. Turnini[1], M. J. Pranter[2] (1. University of Oklahoma; 2. University of Oklahoma) (INT. AUD.: 3) Speaker: Anna Turnini
► Poster Station: G

11:35 AM .... **Permeability estimation for geological CO_2 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. Sun[1], A. Malcolm*[2], R. Kumar[3] (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. Sambolian[1], R. Brossier[1], L. Métivier[2] (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. Srinivasan[1], E. M. Endara Arguello[1], D. Jacobi[2], C. Sandu[3] (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. Wycech[1], J. Birdwell[1], G. Ellis[2], A. Warden[1] (1. U.S. Geological Survey; 2. U.S. Geological Survey) (INT. AUD.: 3) Speaker: Jody Wycech
► Poster Station: G

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 digenesis 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. Wu[2], X. Huang[2], G. Zhang*[1], x. Ren[2], Y. Jiang[2], J. Li[2], Y. Xu[1], X. Huang[1] (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. Reuber[1], R. Etherington[1], M. Cvetkovic[2] (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. Gong[1], W. Tian[2] (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. Hart[1], Y. Li[2] (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. Alqahtani[1], A. Salem[2], H. Janobi[2], J. Luo[2], Y. Alqahtani[2] (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. Yang[1], H. Xu[2], D. Liu[1], C. Tao[1], C. Wang[1], C. Yue[1], 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. Wang[1], I. Putla[1], W. Jiang[1], Y. Lin[2] (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. Gelboim[2], A. Adler*[1], Y. Sun[3], M. Araya-Polo[3] (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. Zhou[1], R. Guo[1], M. Li[1], F. Yang[1], S. Xu[1], A. Abubakar[2] (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.:

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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. Li[1], 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. Hou[2], J. Wang[2], C. Wang[1], Z. Lyu[1], X. Yu[1] (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. Zhu[1], L. Zhao[1], X. Zhao[2], Y. You[2], M. Xu[1], T. Wang[1] (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. Santos[1], M. Souza[4], D. E. Apraez[1], V. K. Ramalho*[1], R. Pestana[2], D. F. Pacheco[1], L. D. Vergne[3], J. d. Maciel[5] (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. Gu[1], J. Geng[1], R. Wu[2] (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. Yeeh, S. Kim, J. Park, S. Seol, J. Byun (Hanyang University (RISE. ML)) (INT. AUD.: 2) Speaker: Zeu Yeeh
► Poster Station: E

10:45 AM.... **Unsupervised deep learning for seismic data reconstruction:** G. Chen[1], Y. Liu[1], M. Zhang[2] (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. Li[1], J. Gao[1], Y. Wang[2], W. Sun[2], Y. Wang[1], Y. Fu[1] (1. China University of Geosciences, Beijing; 2. CNOOC Research Institute Ltd.) (INT. AUD.: 2) Speaker: Fan Li
► Poster Station: H

Tuesday, 29 August

STGM P1 Contractional 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-López[1], D. Cruset[2], J. Vergés[2], A. Koeshidayatullah[1], A. Travé[3] (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. Qureshi[1], J. Suppe[1], S. D. Khan[1], Z. Khan[2] (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. Nowaczewski[1], D. M. Sturmer[2], B. Vaughan[3] (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. Dooley[1], M. Hudec[2] (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 Filho[1], T. Miranda*[1], J. A. Barbosa[1], J. T. Cruz Oliveira[2], J. T. Magalhães[2], S. P. Neves[1], B. B. Carvalho[3], A. L. Celestino[1], G. Mariano[1], V. H. Neumann[1], I. F. Gomes[1] (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 Bozhong Depression, in Bohai Bay basin:** G. Wang[1], Y. Chuai[1], Y. Ren[1], X. Yu[2], Y. Chen[1] (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. Ayodele[1], T. Ore[2], G. Ogunlade[3], A. Jemiseye[1] (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. Regier[1], B. K. Horton[1], D. Starck[2], F. Fuentes[3] (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 CO_2 geo-sequestration using a high-resolution seismic survey: Powder River Basin, Wyoming, USA:** B. Erdinc[1], A. Tura[2] (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. Jiang[1], X. Wang[1], J. Wang[1], X. Yang[1], Z. Xu[2], C. Luo[2] (1. Southwest Petroleum University; 2. Chongqing University of Science & Technology) (INT. AUD.: 3) Speaker: Nan Jiang
► Poster Station: D

Poster Sessions

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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. Li[1], G. Jin[2], R. W. Hammack[3], C. Kohnke[4] (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. Snyder[1], S. Yuan[2], E. Martin[3], D. Homa[4], G. Pickrell[4], A. Wang[5], D. Buitenkamp[5], L. Theis[5] (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. Pastor[1], R. A. Denne[2], B. Henk[1] (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. Herman[1], A. Tura[1], Y. Ning[1], D. Gallegos[2], J. Bridgeman[2] (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. Aderemi[1], E. Charalampidou[1], Z. Jiang[1], E. Tudisco[2] (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. Gregory[1], R. A. Denne[2], B. Henk[1] (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 CO_2-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-Araus[1], J. Granja Bruña[2], P. Mann[1], A. Gallego-Mingo[3], J. Mas Mayoral[2], S. Lopez-Andres[2], M. Canales[2], M. Arribas[2], T. Adatte[4], G. Rosario[5], R. Villafaña[5], A. Carbo[2] (1. University of Houston; 2. Complutense University of Madrid; 3. CEPSA; 4. Lausanne University; 5. Dominical Geological Survey)

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(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. Miranda[1], J. Ajo-Franklin[2], J. Correa[3] (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. Shipper[1], A. Pepper[2], P. Mann[1] (1. University of Houston; 2. ThisIsPetrolemSystem) (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. Wang[1], Z. Deng[1], Z. Chen[1], Y. Cai[1], R. Zhang[2], D. Wu[1], X. Xi[1] (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. Lin[1], G. Zhang[1], B. Wang[1], S. Chen[3], M. Huang[2] (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 Carrasquilla[1], J. Parsons[2], T. Long[2], M. Sun[2], Y. Zheng[1], D. Han[2] (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. Zhang[2], Z. Yin*[1], O. López[3], A. Siahkoohi[4], M. Louboutin[5], F. J. Herrmann[6] (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. Mazumdar[1], K. Searles[1], B. Olofsson[1], J. Gaiser[2], T. Krishnasamy[3] (1. ExxonMobil Technology and Engineering Company; 2. Gaiser Geophysical Consulting; 3. TGS) (INT. AUD.: 5)

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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. Das[1], P. S. Das[1], S. Dasgupta[1], Z. A. Zulkifli[1], M. Ismail[2], F. B. Mohamad Khatib[2] (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 CO_2 storage capacity in onshore saline aquifers: An example from the Frio Formation, South Texas, USA:** C. A. Uroza[1], K. Meador[2], S. Hovorka[1], K. Romanak[1], S. Bhattacharya[1], D. Dunlap[1] (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 CO_2 storage:** T. O. Osunrinde, S. Yelisetti, V. Sanchez (Texas A&M University-Kingsville) (INT. AUD.: 4) Speaker: Taiwo Osunrinde
► Poster Station: B

2:10 PM..... **Numerical modeling study of the CO_2 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 CO_2 sequestration:** M. O'Donnell[1], R. Kagaju[1], U. O. Anyiam[1], E. E. Uzuegbu[2] (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. Gao[1], S. Dong[1], Y. He[1], J. Sheng[1], F. Liu[1], B. Wang[1], C. Calderon[1], Y. Ivanov[2], F. Marcy[2], O. Aaker[2] (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. Sarkar[1], J. Sheng[1], F. Liu[2], D. M. Davies[3], R. Ha[1] (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. Meng[1], X. Hu[2], G. Zhang[2], W. Zhao[2], X. Yang[2], Y. Li[2], C. Zhang[1], M. Zhou[1], X. Liu[1], M. Luo[1], Y. Chen[1] (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. Ruble[1], J. Adams[2], M. Flannery[3] (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. Setoyama[1], S. Garel[2], D. Beti[1], C. Kesler[1], T. Doré[1] (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 Bhuvaneswari 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. Williams[1], A. Cader[1], H. Garcia[2] (1. Geoteric; 2. Geoteric) (INT. AUD.: 3)

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Speaker: Ryan Williams
► Poster Station: A

1:45 PM..... **An application of deep learning for direct seismic inversion to petrophysical properties:** C. Lew[1], C. D. MacBeth[2], A. ElSheikh[2] (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. Chang[1], T. Ye[1], D. Zhang[1], Y. Xiao*[1], Y. Li[2] (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. Farell[1], C. Bajaj[2] (1. University of Texas at Austin; 2. University of Texas at Austin) (INT. AUD.: 3) Speaker: Ryan Farell
► Poster Station: B

2:10 PM..... **A new physical and data-driven method for permeability prediction in ultra-deep tight sandstone reservoirs:** P. Shi[1], P. Zhao[1], Z. Mao[1], K. Bie[2], D. Cai[2], S. Xu[2], J. Feng[2], P. Shi[3] (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. Zhao[1], T. Liu[2] (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. y. 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. Zhai[1], M. J. Pranter[2], J. Pigott[1] (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. Lin[1], Y. Li[1], C. Su[1], Y. N. Lin[2] (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-subsampled shearlet transform surface wave suppression:** S. Lv[1], X. Gong[1], B. Hu[1], Q. Cheng[1], J. Zhang[2] (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 Melo[1], B. Szydlik[1], H. Yao[1], I. Williams[1], Z. J. Wu[2], D. Desta[1] (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. Jakobsen[1], R. Cova*[2] (1. Qeye; 2. Qeye

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(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. . Moreno[1], E. Casaña[1], L. G. Figuera[1], I. C. Higuera[1], D. Garcia[1], J. Acosta[1], B. Roure[2] (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. Ziolkowski[1], G. Baeten[2] (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. Bakulin[1], A. Ramdani[2], D. Neklyudov[3], I. Silvestrov[1] (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. Almeida[1], G. Garcia[2], A. D. Spigolon[1], M. R. Clavijo[3], S. BOU DAHER[3] (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. Shadoan[1], J. Ajo-Franklin[1], T. Zhu[2], J. Patterson[1] (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 CO_2 monitoring: Initial model building and imaging results over Sleipner:** S. Stokes[1], S. David[2], E. Cho[1], D. Mondal[1], G. Stock[1], 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 CO_2 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. Zi[1], L. Fan[1], X. Wu[1], J. Chen[2], Z. Han[2] (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. Wang[1], Z. Jia[2], W. Lu[1] (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. Wang[1], S. Wu*[2], J. Cheng[1] (1.

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. Bugti[1], Y. Zheng[1], L. Huang[2] (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. Jeong[1], P. Cazali[2], J. Gremillion[1], V. Sharma[1], F. Al Shaikh[1] (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. Yan[1], P. LIU[1], M. Sun[1], L. Liang[2], T. Lei[3], Y. Huang[1], P. Bolchover[1] (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. Liu[1], 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. Wardaya[1], A. Abdullah[2], E. Septama[3], W. Pranowo[2], t. usman[1], N. Shihab[1], V. Rossa[1], r. pratama[1] (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

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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. Li[1], Y. Xiong[2], L. Gao[3], J. Zheng[1] (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. Quiaro[1], M. D. Sacchi[2] (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. Caporal[2], J. Yoo[2], M. Almubarak*[1], C. Tsingas[1] (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. Liu[1], C. Birnie[1], A. Bakulin[2], A. Dawood[2], I. Silvestrov[2], T. Alkhalifah[1] (1. KAUST; 2. Saudi Arabian Oil Co) (INT. AUD.: 3) Speaker: Sixiu Liu
► Poster Station: H

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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. Yang[1], X. Yin[2], K. Li[1] (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. Lin[1], S. Chen[2], B. Wang[1] (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. Zhang[1], K. Wolf[2], A. Yusifov[1], M. Walker[1], P. Paramo[1], J. Winterbourne[1], R. Biswas[3], A. Roy[1], Q. Liu[4], X. Liu[4] (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. Dong[1], S. Yu[2], C. Wang[1], Y. Chen[2], X. An[1], Y. Xu[2] (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. Wu[1], Z. He[2], W. Di[1], Y. Wang[3], H. Han[1], H. Yao[1] (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. Iqbal[1], M. Masood[1], M. Alfarraj[2], U. Waheed[3] (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. Wei[1], W. Zhang[1], T. Liu[1], 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 CO_2-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. Akinyose[2], N. M. Rubaie[3], M. Saif[4], E. Hasan[1], R. Kumar[4], A. Donald[1] (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-Ceballos[1], G. Jin[1], T. Collett[2], S. Haines[2], S. Merey[3] (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. Régis[1], P. R. Carvalho[2] (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. Zeng[1], T. Du[2], P. Li[3], X. Liu[4] (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. Yamamoto[1], H. Takayanagi[2], M. Aljneibi[3], Z. Al Farhan[3], T. Sato[4], Y. Tsuji[1], Y. Iryu[2] (1. INPEX Corporation; 2. Tohoku University; 3. ADNOC Offshore; 4. Akita University) (INT. AUD.: 5)

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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. Alqattan[1], R. Goldstein[2] (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

CO2 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 CO_2 sequestration using 4D seismic:** D. Lecerf[1], C. Reiser[2] (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 CO_2 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 CO_2 storage:** F. Thomas, F. Livio (Università degli Studi dell'Insubria) (INT. AUD.: 2) Speaker: Frank Thomas
► Poster Station: C

11:35 AM .... **Estimating CO_2 saturation and porosity using the double difference approach based invertible neural network:** A. Dhara[1], M. Sen[1], S. Dasgupta[2] (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. Kasahara[1], Y. Hasada[1], M. Suzuki[2], T. Takahashi[2], H. Mikada[3], H. Ohnuma[1], Y. Fujise[4] (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. Ma[1], J. Ajo-Franklin[1], A. Nayak[2], X. Zhu[3], J. Correa[2] (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. Saw[1], L. Luo[2], J. Correa[2], K. Soga[1], X. Zhu[3], J. Ajo-Franklin[3], E. Kerr[4], R. Bohn[4] (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. Capuzzo[1], M. Cetale[1], R. Moreira[1], S. L. da Silva[2], A. A. Karsou[3], F. T. Costa[4] (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. Bhatnagar[1], V. Anantharamu[1], R. Bianco[2] (1. Ikon Science; 2. Fasken Oil and Ranch) (INT. AUD.: 3) Speaker: Paritosh Bhatnagar
► Poster Station: B

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 Oudhref Block using seismic attributes and seismic inversion study, Pelagian Basin, offshore Tunisia:** W. Boudegga[1], 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. Rhodes[1], M. Bass[2] (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. Ledoux[1], 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. Luo[1], Y. Xing[2], C. Wang[1], Z. Zhang[1] (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. Abdullin[1], U. Waheed[2] (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. Feng[1], H. Wang[1], C. Deng[1], Y. Feng[1], M. Zhu[1], P. Jin[1], Y. Chen[3], Y. Lin[2] (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. Tian[1], Y. Liu[2] (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. Mathur[1], V. Zgonnik[2], T. Mukerji[3] (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. Barrera[1], S. Verma[2], S. Bhattacharya[3] (1. University of Texas -

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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. Gao[1], N. Creasy[1], L. Huang[2], M. Gross[2] (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. Mosher[1], R. J. Ferguson[2], S. Sood[3] (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. Hanafy[1], K. Ayranci[1], R. Maneja[2], A. Flandez[2], J. Gopalan[2], D. Cortes[3] (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 Wara-Burgan formations using 3D simulated stochastic trends:** R. Rajagopal[1], A. Al-Otaibi[1], T. Chen[1], M. A. Jaseem[1], A. Mudavakkat[1], J. A. Khan[1], K. Krishna Gouravarapu[1], M. F. Al-Awadhi*[2] (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. Nworie[1], L. Mendes[2], G. F. Chinelatto[3], A. C. Vidal[2] (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. Perez[1], E. Morales[1], T. Manapov[1], J. Hernandez[2] (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. Shi[1], R. Zhao[1], H. Yuan*[1], X. Hu[2] (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. Malcolm[1], K. Poduska[1], K. Joyce[1], J. Newman[1], S. Khajehpour Tadavani[1], L. Coates[1], A. Melnikov[2] (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. Obafemi[1], A. Eckert[1], J. Obrist Farner[1], C. Griffiths[2] (1. Missouri University of Science and Technology; 2. StrataMod Pty

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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. Ronnau[1], L. Stright[1], S. Hubbard[2], B. Romans[3] (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. Reece[1], R. Dorrell[2], K. Straub[1] (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. Zhang[1], X. Zhang[1], H. Li[1], P. Song[1], Z. Jia[1], T. Zeng[1], w. Tao[2] (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 traveltime tomography with structure-oriented smoothing:** Y. Wo[2], H. Zhou*[3], W. Cao[1], X. Huang[4] (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 invertion 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 traveltime and double-difference traveltime tomography based on eikonal solver and adjoint-state method: theory and application:** X. Zhou[2], X. Fei[2], P. Tong[1] (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. Hu[1], S. Yu[1], 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. Zhang[1], S. Wang[1], w. y. Hou[1], h. Shi[1], L. Gan[2] (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

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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. Yut[1], T. P. McMahon[2], K. Smye[3] (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 Piane[1], M. Faiz[1], V. Crombez[2], 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. Chakraborty[1], J. Correa[1], M. M. Faria[1], E. Oladeji[1], S. Mallick[2] (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. Hu[1], Q. Wang[1], R. Zhao[2], W. Xie[1], M. Zhou[1], C. Ren[2], L. Jing[1], J. Luo[1] (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. Dommisse, A. Savvaidis, 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. Akindipe[2], P. J. Perfetta[2], C. Shrivastava*[1], J. Seitz[1], V. T. Truong[1], A. Bhattacharya[1] (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. Xu[1], L. Fu[2], T. Lin[2], W. Li[2], Y. Alzayer[3], Z. Alibrahim[3] (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. Shahin[1], M. Myers[2] (1. Advanced Micro Devices (AMD); 2. University

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. Zhang[1], X. Wang[1], Y. Li[2], J. Hou[2], X. Zeng[2], W. Zhen[2], Z. Jl[2] (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. Lin[1], W. Li[1], L. Fu[1], M. Khalaf[2] (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. Yang[1], H. Chen[1], G. Zhang[2] (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. Yang[1], X. Chen[1], D. Xiao[2], Q. Li[1], K. Zhou[1], Y. Wang[1], J. Yu[1] (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-Uribe[3], D. G. Lowe[1], K. Azmy[2] (1. Assistant Professor; 2. Professor; 3. Graduate student) (INT. AUD.: 3) Speaker: Mateo Acuna-Uribe
► Poster Station: A

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1:45 PM..... **Unraveling the "Eaglebine": A Case Study in Sequence Stratigraphy vs. Lithostratigraphy:** P. Johnson[1], A. D. Donovan[2], M. Pope[2], S. Gifford[2], M. Meyer[1] (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. Ke[1], M. D. Sacchi*[2], Y. Shi[1] (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. Wang[1], Y. He[1], A. Yeh[1], F. Liu[2], B. Wang[3], C. Calderon[1] (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. Hoffman[1], S. Bhattacharya[1], D. L. Carr[1], B. J. Casey[4], R. Eastwood[1], E. A. Horne[2], K. Smye[3] (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. Du[1], Z. Jin[1], L. Zeng[1], G. Liu[1], G. Lu[2], S. Yang[3] (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. Ni[1], J. Zhang[1], G. Zhang[1], Z. Liu[1], Y. Lin*[2] (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. Powers[1], N. Vento[2] (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. Karakaya[1], C. Kerans[2], C. Olariu[3], O. Ogiesoba[4] (1. The University of Texas at Austin; 2. UT Austin-BEG; 3. The University of Texas at Auststin; 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

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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 Sanguino[1], H. Bedle[1], M. J. Pranter[2], S. Verma[3] (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. Williams[1], M. Ibagarov[1], Z. Jobe[1], P. Plink-Bjorklund[1], L. J. Wood[1], T. Playton[2], E. Earnest[2] (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. Given[1], F. Huot[3], R. G. Clapp[1], T. Nemeth[2], K. Nihei[2], B. Biondi[1] (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. Jin[1], H. Lu[2], W. Li[1] (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. Peploe[1], S. Hubbard[1], M. Poyatos-Moré[2], S. A. Kaempfe-Droguett[3], M. Puckett[4], D. Bell[5], R. G. Englert[6], B. Romans[4] (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. Wen[1], R. Zhang[1], Z. Huang[1], Q. Wu[1], Y. Guo[2], J. Wang[3] (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. Ma[1], L. Liu[1], N. AlBinHassan[2] (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

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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. Kim[1], J. Ajo-Franklin[1], T. Shadoan[1], V. Sobolevskaia[1], J. Correa[2], B. Freifeld[3] (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. Grubas[1], M. Van der Baan[1], R. Dokht[2] (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. Omojola[1], P. Persaud[2] (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. Alqatari[1], D. Colombo[2], E. Turkoglu[1], Y. Altowairqi[3], D. Rovetta[4] (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. Alsinan[1], M. Makarenko[2], S. Liu[3], I. Hoteit[2], A. Dawood[1] (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. Kanniah[1], L. Demanet[2], P. Bharadwaj[3] (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. Wang[1], W. Hu[3], A. Abubakar[3], X. Wu[2], J. Chen[1] (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 clinoforms in a high accommodation setting, Mayaro Formation, Trinidad:** A. Osman[1], R. Steel[2], V. Rossi[3], C. Olariu[2] (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 CO_2 sequestration:** M. I. Olariu[1], L. G. Moscardelli[2], M. A. Lorente[4], A. Hessler[3], V. Smith[4], X. Liu[4] (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. Peng[1], z. Li[2], I. ding[3], X. Li[2] (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. Morris[1], C. Johnson[1], C. E. Atlas[2], A. Wroblewski[1] (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. Han[1], W. Mao[2], X. Xie[3] (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

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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. Chen[1], Y. Hu[1], H. Peng[2], X. Huang[3], X. Liu[2], K. Li[4] (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 unconventionals.*

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. Casey[1], D. Hoffman[1], D. L. Carr[1], S. Bhattacharya[1], E. A. Horne[2] (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. Wang[1], S. Bhattacharya[2] (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. Sun[1], C. Waters[2], T. Zhang[2] (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. Xiong[1], Y. Wang[1], J. Puckette[1], G. Rother[2], M. Grammer[1], G. A. Awejori[1], A. Katende[1], L. Whitworth[1], B. Johnson[1], C. Massion[1], M. Radonjic[1] (1. Oklahoma State University; 2. Oak Ridge National Laboratory) (INT. AUD.: 3) Speaker: Fengyang Xiong
► Poster Station: H

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Poster Sessions

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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. Irwanto[1], A. Herlambang[2], A. Koeshidayatullah[1] (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. Wicaksono[1], G. Gairola[1], P. Zhan[2], D. Guo[3], I. Hoteit[3], V. Vahrenkamp[1] (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. Glaser[1], B. E. Barrowes[1], F. Shubitidze[2], L. Slater[3] (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. Zhdanov[1], A. Gribenko[2], L. Cox[3], K. Tanabe[4], T. Hato[4], A. Tsukamoto[4] (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 Bozhong sag, Bohai Bay Basin:** Q. Liu[1], H. Yang[1], p. xu[1], D. Wang[1], H. Cui[2] (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. Patel[1], D. Kumar[1], S. Rawat[2], M. P. GOGOI[3], G. Kotekal[3] (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. Wu[1], 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.

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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. Li[1], B. Wheelock[1], T. A. Tran[1], F. Santosa[2] (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. Kuai[1], D. Cao[1], C. Jin[2] (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. Fleegal[1], S. Bowman-Young[1], T. Lupo[2], A. R. Huffman[3], R. Storniolo[4] (1. ESG Solutions; 2. SM Energy; 3. HighPeak Energy Inc.; 4. Birch Resources) (INT. AUD.: 3) Speaker: Nicholas Fleegal
► 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. Brooks[1], T. Chen[1], X. Fang[1], A. R. Huffman[2], T. Lupo[3], R. Storniolo[4] (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 chemostratigraphic analysis, and FMI analysis.

10:20 AM.... **Carbonate S-wave velocity estimation with explainable machine learning method:** T. Zhang, H. Wang, T. Guo (Research Institude 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. Adenan[1], E. Fathi[1], T. Carr[1], B. Panetta[1], B. Carney[2] (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. Louboutin[1], R. Orozco[2], A. Siahkoohi[3], F. J. Herrmann[1] (1. Georgia Institute of Technology; 2. Georgia Institute of Technology; 3. Rice University) (INT. AUD.: 3) Speaker: Mathias Louboutin
► Poster Station: E

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10:45 AM.... **Repeatability enforcement (RE) for time-lapse seismic measurements with deep learning:** S. D. Phan[1], W. Hu[1], A. Abubakar[2] (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. He[1], D. Liu[2], X. Wang[1], W. Chen[1] (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. Torres[1], M. D. Sacchi[2] (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. Broadley[1], 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. Esmaeilzadeh[1], H. Jodeiri Akbari Fam[2] (1. Western Kentucky University; 2. Natural Resources of Canada) (INT. AUD.: 3) Speaker: Nima Esmaeilzadeh
► Poster Station: C

11:35 AM .... **Modeling the spectral induced polarization response of conductive spheres in faradaic dominant versus diffuse layer dominant systems:** A. Garcia[1], D. R. Glaser[1], L. Slater[2] (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. Bernstein[1], Y. Li[2], R. W. Hammack[3] (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. Adcock[1], M. Allison[2] (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. Karadöller[1], C. Imren[1], Z. Erdem[2] (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. Islam[3], P. Persaud[1], M. Thant[2], K. Win[2], E. Sandvol[3] (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. Ivanov[1], S. L. Peterie[1], R. D. Miller[1], D. Borisov[1], S. Sloan[2] (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. Heng[1], A. Hongyi[2], x. kefeng[1], Y. Yuan[1], H. Botao[1], L. Wenbiao[1] (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 CO_2 and waterflooding in the Permian Basin, Texas:** N. Omoruyi[1], S. Verma[2], S. Bhattacharya[3], Z. Zeng[4], M. Henderson[1], R.

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Trentham[1] (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 Neto[1], M. R. Ceia[2], R. M. Misságia[2], L. C. Oliveira[1], V. H. Santos[2], J. Moreira[1] (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. Ayranci[1], T. Finkbeiner[2], E. Gramajo[3], R. M. Rached[3], M. Osman[1], A. J. Abdlmutalib[1], M. Salva Ramirez[2], O. A.Aziz[1] (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. Olariu[1], R. Steel[1], M. I. Olariu[2] (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. Alasad[1], C. Olariu[2], R. Steel[1] (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. Chen[1], D. Wang[1], J. Zhang[2], S. Lv*[1], Y. Su[3] (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. Qin[1], J. Yang[2], J. Huang[1], Y. Tian[3], Z. Li[1] (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. Zhang[1], Q. Yuan[2], L. Jia[1], X. Peng[1] (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. Walker[1], Z. Zhou[2], X. Li[2] (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. Krishnasamy[1], R. Florendo[1], A. Nangarla[1], C. Udengaard[1], P. Mazumdar[2], K. Searles[2], B. Olofsson[2], J. Gaiser[3] (1. TGS; 2. ExxonMobil Technology and Engineering Company; 3. Gaiser Geophysical Consulting) (INT. AUD.: 3) Speaker: Terence Krishnasamy
► Poster Station: H

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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. Karsou[1], S. L. da Silva[2], F. V. Capuzzo[1], F. T. Costa[1], R. Moreira[1], M. Cetale[1] (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. Wu[1], H. Wang[1], B. Feng[1], C. Ning[1], X. Tang[2] (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. Zhang[1], Z. Wu[1], Y. Cheng[2] (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. Yasin[1], Y. Ma*[2], B. Liu[2], G. Sohail[3] (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. Calle[1], E. A. Horne[2], K. Smye[3], P. H. Hennings[4] (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 fractpack 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. Stammeijer[1], P. Cornelisse[1], C. Gautre[1], J. Jimenez[1], P. Hatchell[2] (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 CO_2 monitoring at an industrial site:** C. Barajas-Olalde[1], D. C. Adams[2], J. T. Kovacevich[1], T. L. Richards[1], D. Burns[3], Z. Xue[4], K. Connors[5] (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

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UNCON P4 Innovative Solutions and Data Science Applications in Unconventional Resource Evaluation 2

Session Chairs: Sergio Chávez-Pérez and Jan Norbisrath
Location: Poster Station 7
Synopsis: *This session focuses on multidisciplinary techniques including the application data science within unconventionals.*

10:20 AM.... **Ranking of the US shale plays using data science: Insights into oil production performance:** R. Sorkhabi[2], P. Palash[1], M. Deo[1] (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. Huang[3], A. Hosford Scheirer[1], T. Mukerji[2] (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. AlJallad[1], D. Gonzalez[1], S. Koronfol[1], K. Vican[1], A. Shashanka[2], 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-Musawi[1], P. J. Moore[2], S. E. Kaczmarek[1], J. M. Rivers[3] (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. Tonietto[1], J. B. Gomes[2], R. B. Bunevich[3], M. M. Erthal[1] (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. Vestrum[1], J. Soldo[2], E. Zunino[2], M. Muzzio[2], J. Chung[2] (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

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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. Zeitoum[4], M. Kuroda[5], J. d. Souza[5], A. Jordao[1], H. Pedrini[1], A. C. Vidal[3], M. Rezende[2], A. Mello Junior[2], Y. Silva[2] (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. Jordao[1], J. d. Souza*[2], N. Zeitoum[3], M. Kuroda[2], H. Pedrini[1], A. C. Vidal[4], M. Rezende[5], Y. Silva[5] (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. Hu[1], X. Wen[2], L. Ma[2], B. Wu[1], H. Li[1] (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. Xie[1], J. Zhang[1], 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. Morgan[1], K. Chesser[2] (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. Delgado[1], D. Hansen[2], M. Scheihing[2], L. Strumness[2], E. S. Staples[2], S. Courtade[3] (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. Martins[1], F. R. Ettensohn[2], S. Knutsen[3] (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. Ding[1], H. Chen[1], F. Zhang[1], X. Li[1], P. Sun[2] (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))

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(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. Collazos[2], K. d. Rincon[2], J. M. Araujo[2], J. L. Lopez[1] (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. Taweesintananon[1], M. Landrø[1], S. Narongsirikul[2], P. Folstad[2] (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 CO_2 injection at the CMC Newell County Facility, Alberta, Canada:** Y. Wang[1], D. Lawton[2] (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 Alkhaldi 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. Zhang[1], Y. Xiao*[1], T. Ye[1], J. Chang[1], X. Lin[2] (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

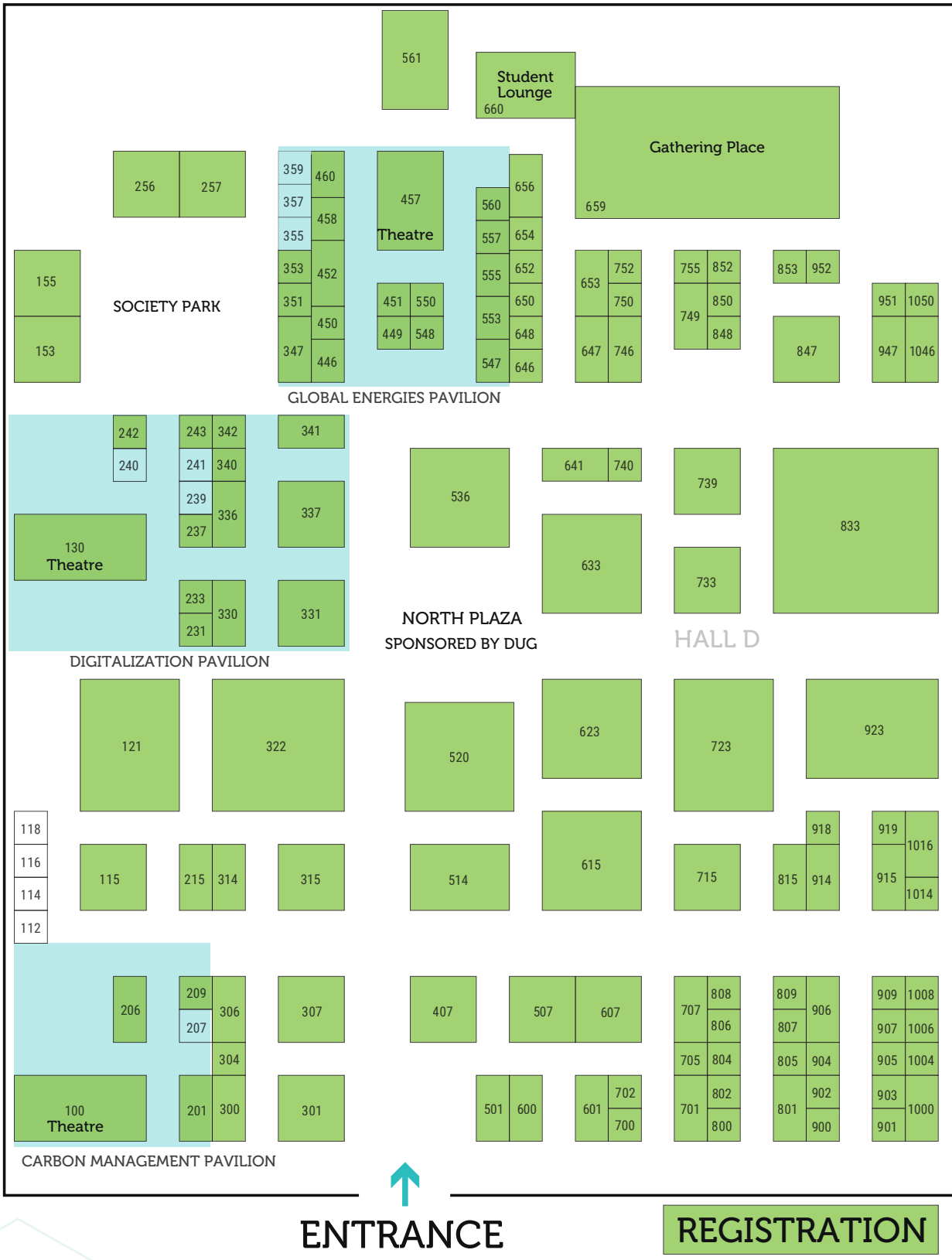
1:45 PM..... **Changes in carbon Kα peak spectrum: A novel method to estimate organic matter thermal maturity using an electron probe microanalyzer:** H. Zhou[1], M. Torres[1], G. Costin[1], D. Minisini[2], J. Birdwell[3], P. Hackley[4] (1. Rice University; 2. Shell; 3. U.S. Geological Survey; 4. U.S. 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. Abdlmutalib, O. Abdullatif (King Fahd University of Petroleum and Minerals) (INT. AUD.: 3) Speaker: Ammar Abdlmutalib
► Poster Station: D

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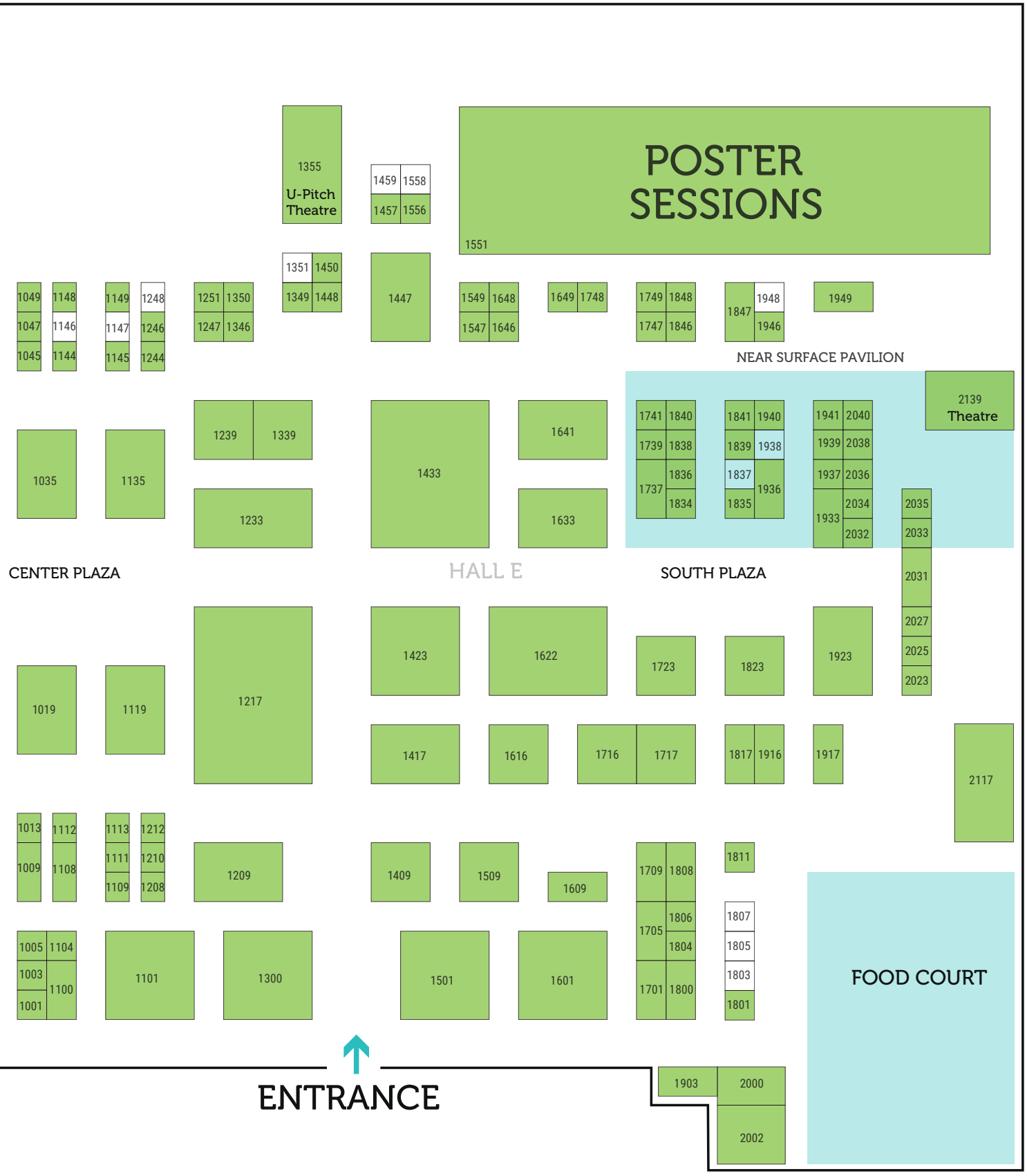
Exhibition Floor Hours:

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.



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www.interpretation.ai
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- 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

GEOPHONES

- 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

EXHIBITOR SECTION

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
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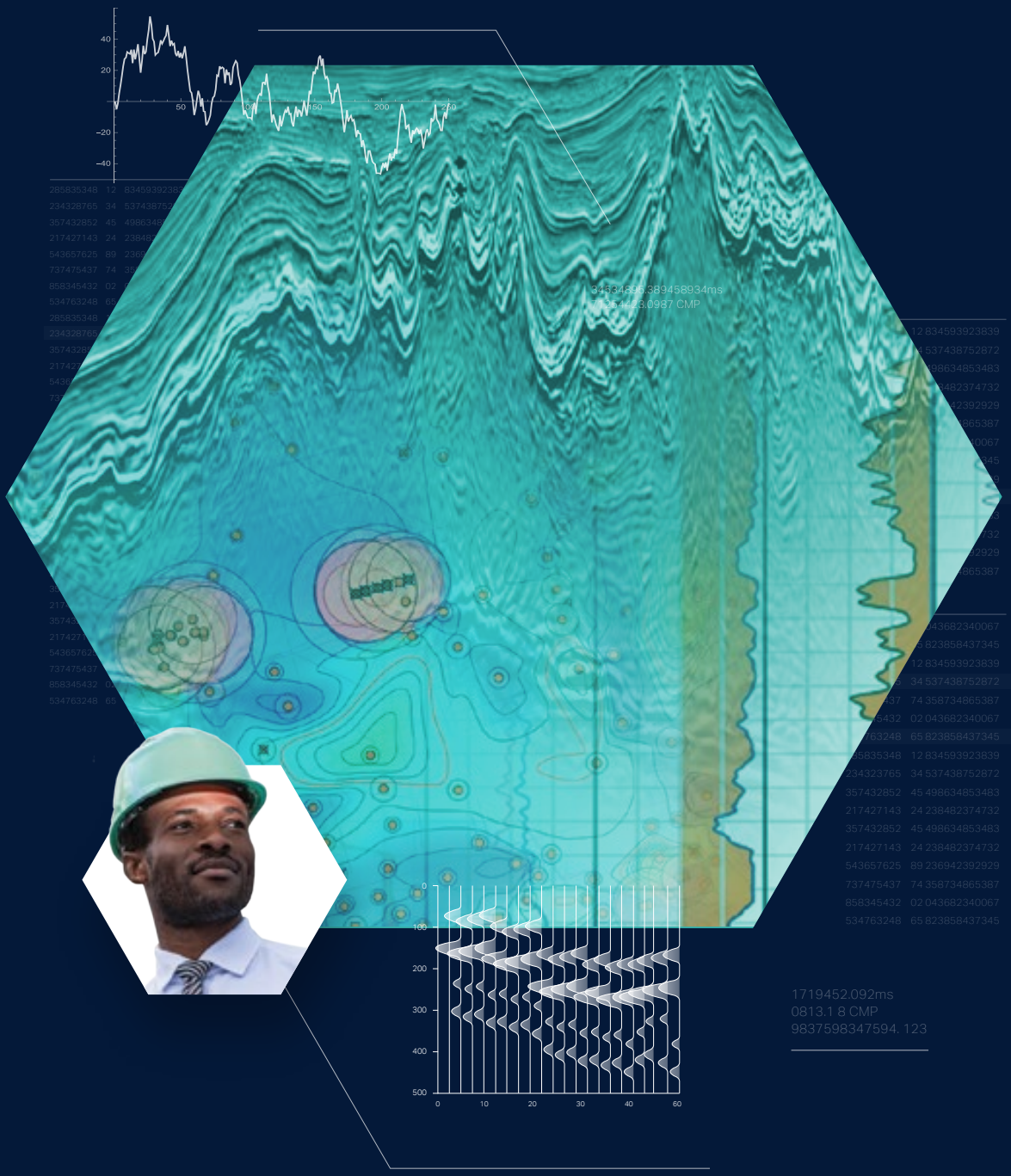
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