The World's #1 Geoscience Event



The International Meeting for Applied Geoscience and Energy

Building Your Geoscience Success: 5 Years of Discovery & Innovation



25–28 August 2025 • George R. Brown Convention Center • Houston, Texas



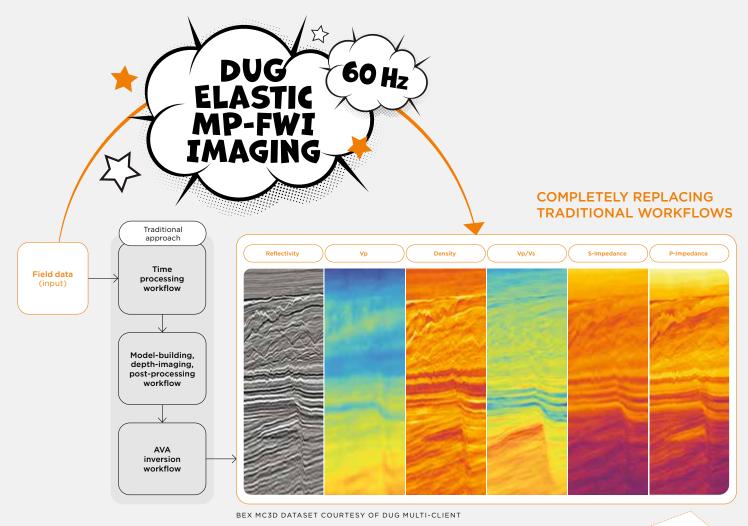








LEAP ENTIRE WORKFLOWS IN A SINGLE BOUND



DUG Elastic MP-FWI Imaging enables simultaneous inversion of reflectivity (3-component, directional, horizontal), P-wave velocity, S-wave velocity, density, P-impedance, S-impedance, and Vp/Vs ratio, providing quantitative-interpretation-ready outputs of the highest resolution and amplitude fidelity — using field-data input. In this example we can readily identify the reservoir location — a beautiful flat spot!

No more jumping through hoops — DUG Elastic MP-FWI Imaging gives you everything you need with one powerful leap.

Drop by DUG's booth at IMAGE '25!



Welcome to IMAGE '25

CELEBRATING A LEGACY OF INNOVATION:

Building Your Geoscience Success

IMAGE '25 is meticulously designed to be the central meeting point where our dynamic community converges. Through comprehensive technical sessions, extensive resources, and the presence of professionals wielding critical skills, advanced technology, and profound expertise, you will discover solutions to the industry's most pressing issues. Your path to future success begins at IMAGE '25.

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Please note: Throughout this program all currency is listed in US\$ and all times are listed in Central Daylight Time.

Thank You Sponsors

The International Meeting for Applied Geoscience and Energy is made possible in large part through the generous support of our sponsors. Their crucial contributions directly fund and enable many of the convention's essential programs, networking breaks, and key events. We extend our sincere gratitude for their vital partnership.

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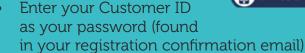
Make the most of your time at IMAGE '25 with the official IMAGE app — your digital guide to everything happening in Houston.

- Build your personalized schedule
- Explore 1,100+ technical presentations and review presentation abstracts
- Navigate the venue with interactive maps
- Get real-time updates and reminders
- Connect directly with fellow attendees and exhibitors
- Judge technical program presentations



How to Download:

- Scan the code at right to download the "IMAGE Events" App from the Apple App Store or Google Play
- Enter your email address used when registering for the event







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

Need help?

Visit Society Central at booth 201 for handson assistance. Our team will be available throughout the convention to ensure you're getting the most value out of your IMAGE experience.

Journey to the top at Society Central!

Booth #201

See page 42 for details.

Follow us on social media

to stay informed about everything happening at IMAGE.

#IMAGE25











IMAGEEVENT.ORG

Explore the Bookstore — And Spin to Win!

Located on Level 3 near the Technical Sessions

The AAPG | SEG Bookstore is more than just a shop—it's where geoscientists come to expand their knowledge, find answers to complex challenges, and grow their technical libraries. Browse an exceptional collection of new releases, best-sellers, and discounted titles from AAPG and SEG, covering the full spectrum of applied geoscience.

Whether you're exploring the latest innovations or deepening your expertise, this is the place to fuel your curiosity and connect with the science.

And don't miss the Big Wheel! Stop by and spin to win prizes, book discounts, and more. It's a fun way to engage while discovering what the bookstore has to offer.

Author & Editor Signings:

Meet the minds behind the books at scheduled signings throughout the week. Use the mobile app for more details.

Signings include:

Leon Thomsen, author of Surely You're Joking, Mr. Thomsen! Adventures of a Petroleum Scientist

Monday, 3:30 p.m.-4:00 p.m.

Tuesday, 1:00 p.m.-1:30 p.m.

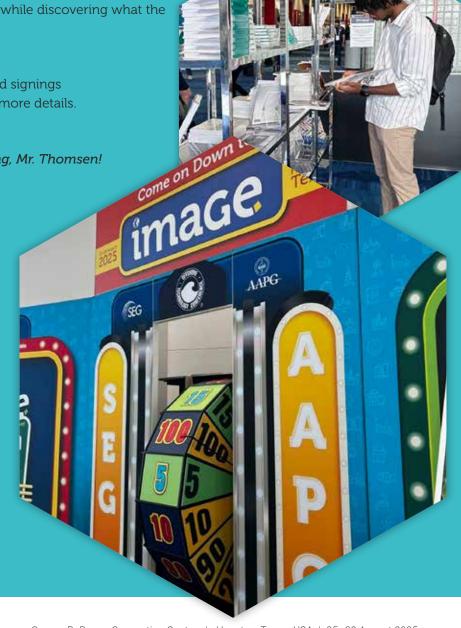
Wednesday, 3:00 p.m.-3:30 p.m.

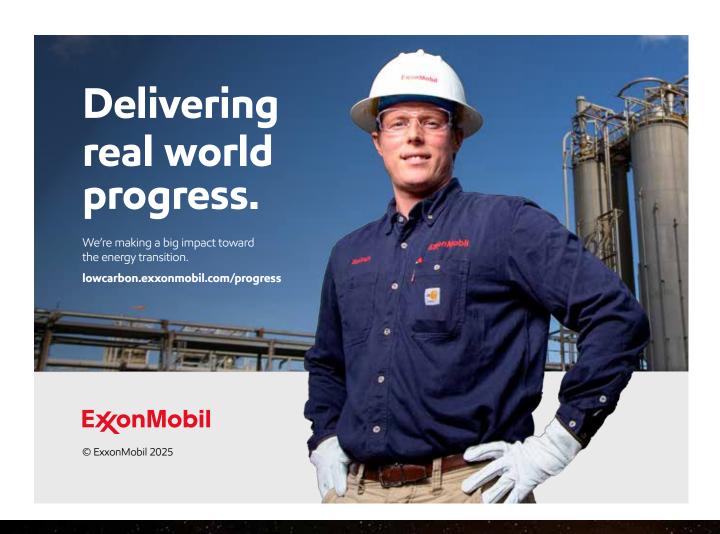
Kurt Marfurt, coauthor of *Essentials of Seismic Attributes and Impedance Inversion*Tuesday, 3:00 p.m.-3:30 p.m.

Wednesday, 10:00 a.m.-10:30 a.m.

Bookstore Hours

Monday: 3:30 p.m.-6:00 p.m.
Tuesday: 8:00 a.m.-6:00 p.m.
Wednesday: 8:00 a.m.-6:00 p.m.
Thursday: 8:00 a.m.-3:00 p.m.







Help a Take Flight

A small donation can lead to a big career breakthrough.

SEG student members rely on travel support to attend conferences, present research, and build lifelong networks. Your \$10, \$25, or \$50 gift can help a student like you once were.

Give now and help a student attend IMAGE 2026. Every gift makes a direct impact.

- \$10, \$25, or \$50 gift Contributes to flight cost
- \$100 Helps with registration fees
- \$250-\$599 Helps pay for hotel and meals
- \$600 Buys a one-way flight
- \$1,250 Gets a student halfway there
- \$2,500 Fully sponsors one student's IMAGE experience

What does \$2,500 do?

It unlocks a future for one aspiring geoscientist.



Stop by and visit us at the Foundation Lounge in Society Central! (Booth #201)

Inside IMAGE Podcast

Inside IMAGE, Presented by Seismic Soundoff Hosted by Andrew Geary

Get a front-row seat to the conversations shaping the geosciences.

Inside IMAGE is a special series from Seismic Soundoff, SEG's flagship podcast hosted by Andrew Geary, now in its $10^{\rm th}$ year. This limited-edition series takes you behind the scenes of IMAGE, the premier geoscience event, with exclusive interviews and in-depth discussions.

Hear from industry leaders, technical experts, and passionate professionals as they explore the latest in applied geophysics, geology, and the evolution of IMAGE itself. Whether you're a seasoned attendee or new to the field, Inside IMAGE brings the people, purpose, and progress of IMAGE straight to your ears.

Tune in during and after the event to experience the voices driving innovation in Earth science.



IMAGEevent.org/podcast

SEG Corporate Members

The Society of Exploration Geophysicists proudly recognizes its Corporate Members, a dedicated group of organizations that are committed to advancing the science of applied geophysics and the education of geophysicists worldwide.







A Corporate Membership in SEG provides your company with outstanding visibility among the Society's growing membership, a highly targeted audience of applied geophysics professionals worldwide. Corporate membership offers a wealth of networking opportunities designed to help your company form mutually beneficial relationships with the best in the industry. If you are ready to team up with our staff and work together for premium results, we invite you to apply for corporate membership! Visit the SEG membership booth in Society Central or contact a representative at +1-918-497-4646 or members@seg.org.



Seismic Interpretation Expertise & Technology

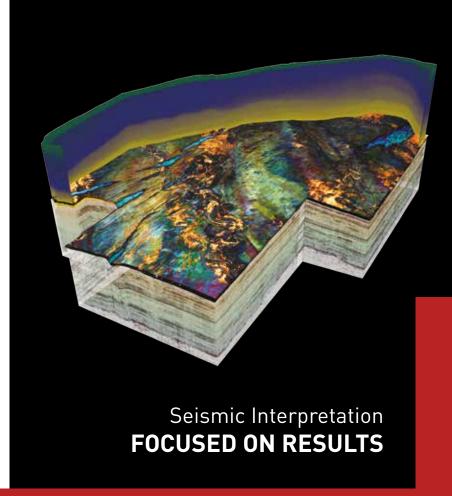
We extract more than expected from your 3D Seismic.

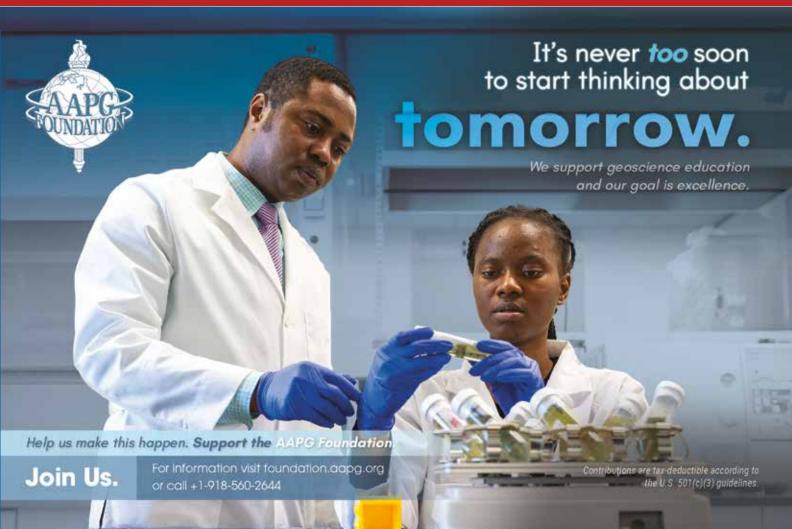
Contact us today to explore how we can assist you at info@subsurfaceclarity.com



SUBSURFACECLARITY.COM

BOOTH #1924

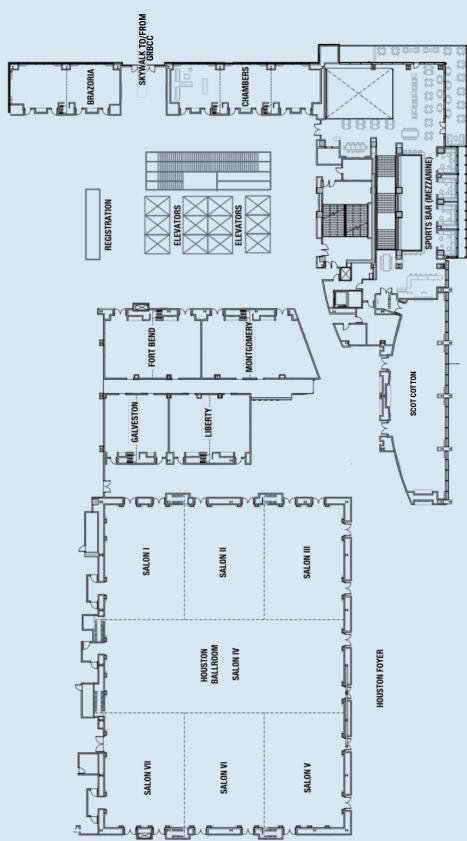




Hotel Maps

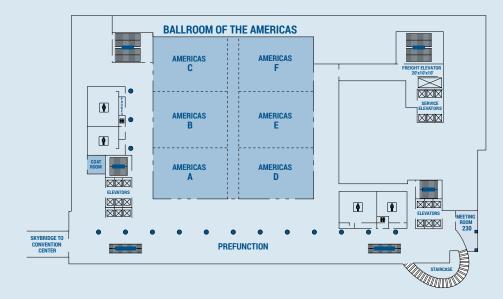
Marriott Marquis Houston

Level 2

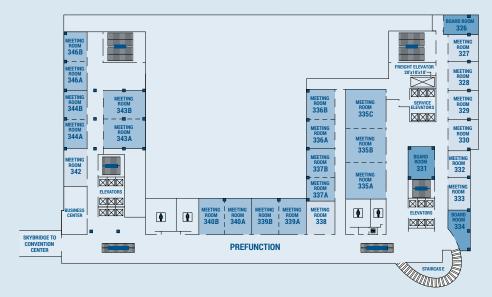


Hilton Americas — Houston

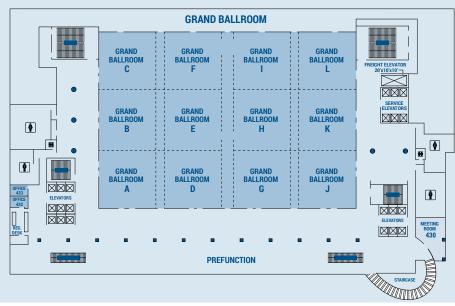
Level 2



Level 3



Level 4



General Information

On-Site Registration

Location: Lobby D (street level)

Sunday	8:00 a.m5:00 p.m.
Monday	
Tuesday	7:00 a.m5:30 p.m.
Wednesday	7:30 a.m5:30 p.m.
Thursday	7:30 a.m2:30 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.m5:00 p.m.
Tuesday	7:00 a.m1:00 p.m.

Location: Hilton Americas — Houston Level 2 Near Skybridge to Convention Center

Saturday	12:00 p.m5:00 p.m.
Sunday	8:00 a.m5:00 p.m.
Monday	8:00 a.m5:00 p.m.
Tuesday	7.00 a m - 1.00 n m

Exhibition

Location: Exhibit Halls D and E

Monday	5:30 p.m7:30 p.m.
Tuesday	9:00 a.m6:00 p.m.
Wednesday	9:00 a.m6:00 p.m.
Thursday	9:00 a.m3:00 p.m.

Speaker Ready Room

Location: Room 350D

Monday	12:00 p.m-4:00 p.m.
Tuesday	7:00 a.m6:00 p.m.
Wednesday	7:00 a.m6:00 p.m.
Thursday	7:00 a.m5:00 p.m.
Friday	7:00 a.m5:00 p.m.

Audio/Video/Photographs

Please note that audio recording, video recording, or photographing any portion of IMAGE '25 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) and 3rd level

Friday	8:00 a.m5:00 p.m.
Saturday	8:00 a.m5:00 p.m.
Sunday	8:00 a.m5:00 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.m5:00 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 $3^{\rm rd}$ 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.m4:00 p.m.
Sunday	10:00 a.m4:00 p.m.
Contact:	
FedEx Office	713-651-3013
Direct Hotel Line	6122

Marriott Marguis Houston

Located on the 2nd floor west side next to Houston Ballroom 5. The Business Center is operated by in-house FedEx staff.

7.00 0 00 7.00 00

Hours of Operation:

Manday Friday

8:00 a.m12:00 p.m.
12:00 p.m4:00 p.m.
713-222-0070
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.

Code of Conduct

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.

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

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.

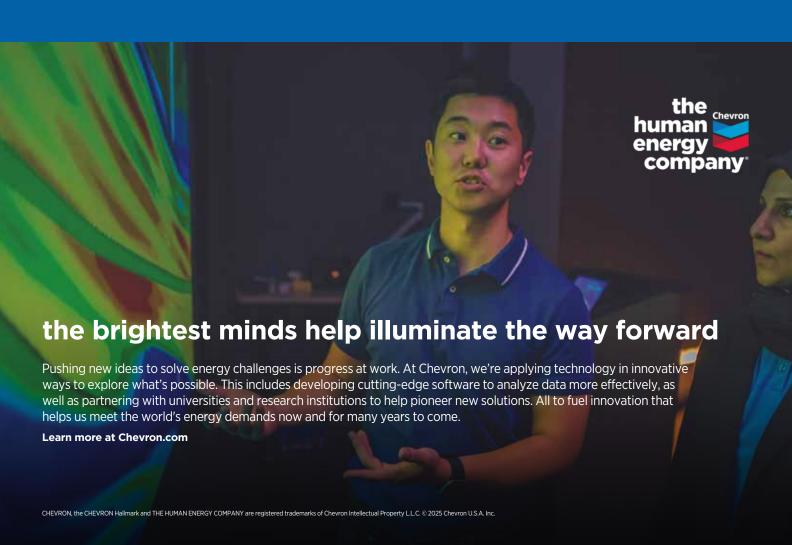
IMAGE reserves the right to make a final determination regarding what is acceptable and may remove persons from the exhibition floor that are not in compliance.

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.



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AMERICAN ASSOCIATION OF
PETROLEUM GEOLOGISTS
Staff Liaison



Tom Agnew

SOCIETY OF EXPLORATION
GEOPHYSICISTS
Staff Liaison

Schedule at a Glance

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

Saturday, 23 August

8:00 a.m.-6:00 p.m. 12:00 p.m.-5:00 p.m. Preconvention Field Trips Satellite Registration (Hilton Americas - Houston)

Sunday, 24 August

8:00 a.m.-5:00 p.m. 8:00 a.m.-5:00 p.m.

8:00 a.m.-5:30 p.m.

10:00 a.m.-6:00 p.m.

5:00 p.m.-6:00 p.m.

Registration Satellite Registration (Hilton Americas — Houston / Marriott Marguis Houston) **Preconvention Short Courses** SEG/Chevron Student Leadership Symposium (SLS) — Day 1 SEG Gravity and Magnetics

Monday, 25 August

Committee Meeting

7:30 a.m.-7:00 p.m. 8:00 a.m.-5:00 p.m. 8:00 a.m.-5:00 p.m.

8:00 a.m.-3:30 p.m.

Registration **Preconvention Short Courses** Satellite Registration (Hilton Americas — Houston / Marriott Marguis Houston) SEG/Chevron Student Leadership Symposium (SLS) - Day 2

SEG Council Meeting and 9:00 a.m.-11:00 a.m. Presidential Address

1:30 p.m.-3:30 p.m. AAPG Division of Professional Affairs Annual Meeting

Coffee

1:30 p.m.-4:30 p.m.

C-Suite Strategic Panel and Networking Reception Women's Network Geology of

2:00 p.m.-3:30 p.m. 3:00 p.m.-4:30 p.m.

SEG GEOPHYSICS Editors Meeting 3:30 p.m.-6:00 p.m. **IMAGE Bookstore** 4:30 p.m.-5:30 p.m. 5:30 p.m.-7:30 p.m.

Opening Session Exhibition and Icebreaker Reception 6:30 p.m.-8:00 p.m. Early Career Networking Reception

Tuesday, 26 August

7:00 a.m.-5:30 p.m. 7:00 a.m.-1:00 p.m.

8:00 a.m.-12:00 p.m. 8:00 a.m.-6:00 p.m. 9:00 a.m.-6:00 p.m. 9:00 a.m.-6:00 p.m. 9:00 a.m.-12:00 p.m. 9:30 a.m.-10:30 a.m. 10:00 a.m.-2:00 p.m. 11:30 a.m.-1:15 p.m.

11:30 a.m.-1:00 p.m. 1:00 p.m.-5:00 p.m. 1:20 p.m.-5:20 p.m. 3:00 p.m.-4:00 p.m. 2:00 p.m.-5:00 p.m. 3:00 p.m.-5:00 p.m.

5:00 p.m.-6:00 p.m. 5:00 p.m.-6:00 p.m.

4:30 p.m.-5:00 p.m.

5:00 p.m.-6:00 p.m.

6:30 p.m.-7:30 p.m. 6:30 p.m.-7:30 p.m. 7:00 p.m.-10:00 p.m.

7:00 p.m.-10:00 p.m. 7:30 p.m.-9:00 p.m.

9:00 p.m.-12:00 a.m.

Registration

Satellite Registration (Hilton Americas — Houston / Marriott

Marguis Houston) Oral and Poster Sessions **IMAGE Bookstore**

Exhibition

Pavilion Theatre Presentations Geothermal Hub Presentations Refreshment Break

Exhibition Food Court 10:20 a.m.-12:00 p.m. Panel: Mergers and Acquisitions

All-Convention Luncheon SEG Foundation Donor Luncheon (by invitation only)

Geothermal Hub Presentations Oral and Poster Sessions

Refreshment Break New Technology Showcase Early Career Speed Mentoring AAPG Imperial Barrel Award (IBA) Ceremony

End-of-Day Reception

AAPG Imperial Barrel Award (IBA) Reception (by invitation only)

SEG Geoscientists without Borders® Reception

AAPG Honors & Awards Ceremony SEG Honors & Awards Ceremony SEG Near-Surface Geophysics Reception

SEPM Carbonate Research Groups AAPG/SEG Presidents' Reception (by invitation only)

Presidential Jam

Wednesday, 27 August

7:30 a.m6:00 p.m. 8:00 a.m9:40 a.m. 8:00 a.m12:00 p.m. 8:00 a.m6:00 p.m. 8:30 a.m10:00 a.m. 9:00 a.m6:00 p.m. 9:00 a.m6:00 p.m. 9:00 a.m12:00 p.m. 9:30 a.m10:30 a.m. 8:00 a.m5:00 p.m. 10:00 a.m2:00 p.m.	Registration Special Session: Best of EAGE 2025 Oral and Poster Sessions IMAGE Bookstore AAPG Foundation Forum Exhibition Pavilion Theatre Presentations Geothermal Hub Presentations Refreshment Break SEG EVOLVE/Field Camps Exhibition Food Court Panel: New Energies and Energy Transition: CCS Economics, Environmental Aspects, and
11:30 a.m.–1:00 p.m.	Regulatory Frameworks AAPG Division of Professional Affairs (DPA) Luncheon
11:30 a.m.–1:00 p.m. 11:30 a.m.–1:00 p.m.	Women's Network Luncheon SEG Gravity and Magnetics and Mining and Mineral Exploration Joint Luncheon
1:00 p.m.–5:00 p.m. 1:20 p.m.–5:20 p.m. 1:20 p.m.–5:20 p.m. 2:00 p.m.–5:00 p.m. 3:00 p.m.–4:00 p.m.	Geothermal Hub Presentations Oral and Poster Sessions Special Session: Discovery Thinking New Technology Showcase Refreshment Break
5:00 p.m.–6:00 p.m. 5:25 p.m.–6:15 p.m. 5:30 p.m.–7:30 p.m. 5:30 p.m.–7:30 p.m.	End-of-Day Reception Michel T. Halbouty Lecture All-Alumni Reception Alumni Receptions (by invitation only)
6:00 p.m.–7:00 p.m.	SEG Passive Seismic Committee Meeting
6:30 p.m.–7:30 p.m.	AGU/SEG Collaboration Committee Meeting
6:30 p.m.–8:30 p.m.	AAPG Foundation Chairman's Reception (by invitation only)

AAPG/SEG Latin America and Caribbean Region Meeting and

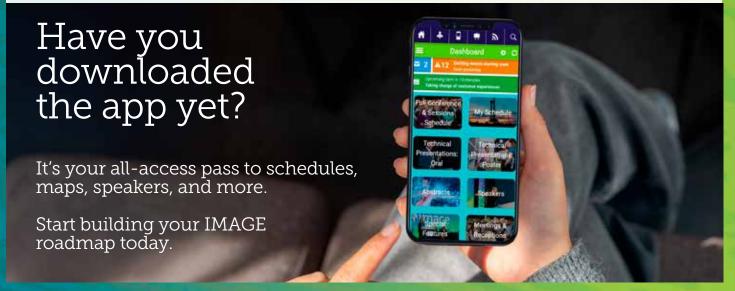
Reception

Thursday, 28 August

7:00 a.m9:00 a.m.	Women's Networking Breakfast at Phoenicia MKT
7:30 a.m2:30 p.m.	Registration
8:00 a.m12:00 p.m.	Oral and Poster Sessions
8:00 a.m3:00 p.m.	IMAGE Bookstore
8:00 a.m3:00 p.m.	Applied Science Education Program (ASEP) for K-12
9:00 a.m12:00 p.m.	Geothermal Hub Presentations
9:00 a.m3:00 p.m.	Exhibition
9:00 a.m3:00 p.m.	Pavilion Theatre Presentations
9:30 a.m10:30 a.m.	Refreshment Break
11:30 a.m.–1:00 p.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 Geosciences (DEG) Luncheon
12:00 p.m.–1:00 p.m.	SEG Mining and Mineral Exploration Committee Meeting
1:00 p.m5:00 p.m.	Geothermal Hub Presentations
1:20 p.m4:50 p.m.	Oral and Poster Sessions
4:00 p.m5:00 p.m.	SEG CO ₂ Research Subcommittee Meeting
5:00 p.m.–7:00 p.m. 5:30 p.m.–6:30 p.m.	SEG Research Committee Meeting SEG Development and Production Committee Meeting

Friday, 29 August

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



6:30 p.m.-8:00 p.m.

C-Suite Strategic Panel

2025!

New for

Monday, 25 August | 1:30 p.m.-4:30 p.m. George R. Brown Convention Center, Ballroom B

Global Upstream for the 2030's: Energy Markets, Geopolitics and Growth Routes – Reshaping the Energy Landscape

Join top executives from the energy and finance sectors for a high-level strategic discussion on the future of upstream. This inaugural C-suite panel will explore how global market dynamics, shifting geopolitical forces, and emerging growth opportunities are redefining the upstream playbook for the decade ahead.

Discover why international investment and cross-border collaboration will be essential to navigating uncertainty and securing long-term value in a rapidly evolving energy landscape.

Key discussion points:

- What is the long-term role of oil and gas in a rapidly evolving global energy mix?
- How should various types of oil and gas companies position themselves to remain competitive and resilient through the 2030's?
- With North American onshore basins reaching maturity, how can domestic players re-enter — or enter for the first time — the international upstream market?
- What portfolio strategies will offer the strongest balance of resilience, growth, and sustainability?
- How can both organic and inorganic growth approaches be optimized to support long-term strategic goals?



Scan for full speaker details and the latest information or use the mobile app.

Sponsor:

Welcome and Introduction

1:30 p.m.-1:40 p.m.



 Jessica Ciosek, Head of Americas Subsurface Research, Wood Mackenzie

Executive Leadership Conversation

1:40 p.m.-2:10 p.m.

- Gregory Hebertson, Co-Head and Chief Operating Officer, Westlawn Americas Offshore
- Andrew Latham, Senior Vice President Energy Research, Wood Mackenzie (host)

Upstream Strategy Panel

2:10 p.m.-3:30 p.m.

- **Helen Currie**, Chief Economist, ConocoPhillips
- Sunday Shepherd, General Manager Strategy, Chevron
- Christopher Watson, Managing Director, Barclays Capital
- Robert Clarke, Vice President Upstream Research, Wood Mackenzie
- Michael Steinhacker, Vice President Upstream Consulting, Wood Mackenzie (moderator)

Networking Reception:

Following the panel discussions, guests are welcome to join a networking reception from 3:30 p.m.-4:30 p.m. in Ballroom C — just ahead of the IMAGE Opening Session. This gathering offers a unique opportunity to connect with fellow industry leaders, panelists, and C-suite peers in a more relaxed setting.

Continue the conversation, build new relationships, and be part of the strategic dialogue shaping the future of upstream.

Don't miss the IMAGE '25

Opening Session

Capping off the day's strategic discussions, the IMAGE Opening Session is where the energy community comes together to set the tone for the week ahead.

Join industry leaders, innovators, and changemakers for a dynamic kickoff filled with insight, inspiration, and a look ahead at the forces shaping the future of geoscience. From big-picture trends to bold new ideas, this is the session that brings it all into focus.

If you're serious about the future of energy—this is where you need to be.

Topic: Exploration - Dealing with Reservoir Complexities

Panelists: • Faisal Bakar, Vice President (Exploration) Upstream
Business. PETRONAS

Kristian Johansen, Chief Executive Officer, TGS
Danielle Carpenter, General Manager, Global

Exploration Review Team, Chevron

• Chris Olson, Vice President, Head of Exploration,

Murphy

Moderator: • Bob Fryklund, Chief Upstream Strategist, S&P Global

Commodity Insights

Date: Monday, 25 August **Time**: 4:30 p.m.–5:30 p.m.

Location: George R. Brown Convention Center, Ballroom B

Fee: Included with registration

Over the past two decades, the oil and gas sector has added giant carbonate discoveries, giant and complex ultra deepwater turbidites, and basement reservoirs. Many of these challenge our technical and production capabilities. Additionally, recent giant discoveries have proven uneconomic due to difficult financial factors and reservoir complexities — in fluid and rocks. Moderated by Bob Fryklund, our expert panel will address the industry's continued challenges with basin limits surrounding exploration and conditions. The engaging and dynamic dialogue will focus on how to better predict and develop complex reservoirs. We will also examine the roles of technology, data, and operations in the prediction and development processes. And you won't want to miss the welcome address from AAPG President Brian Horn and SEG President John Eastwood, followed by an engaging panel discussion.



Faisal Bakar



Kristian Johansen



Danielle Carpenter



Chris Olson



Bob Fryklund

Special Features

Discovery Thinking Forum

Topic: Integrating Geology and Geophysics:

DHI Reveals Major Subsurface Discoveries

Speakers: Multiple speakers presenting

Chairs: Charles Sternbach and Mike Forrest

Date: Wednesday, 27 August Time: 1:20 p.m.–5:20 p.m.

Location: George R. Brown Convention Center

Room 360A

Fee: Included with registration

Now in its 30th installment, the 2025 Discovery Thinking Forum continues AAPG's long-standing tradition of spotlighting the stories behind the science. Featuring five extraordinary case studies, this forum highlights the powerful role that integrated geology and geophysics play in achieving some of the world's most impactful discoveries.

Built on 17 years of success and more than 100 discoveries, Discovery Thinking presentations go beyond data—they celebrate the art, strategy, and human insight behind exploration. Speakers will share:

- First-hand accounts from remarkable careers
- Candid reflections on business, technical, and professional hurdles
- Memorable moments, colorful anecdotes, and lessons learned

For early-career geoscientists and seasoned professionals alike, these stories serve as living analogs—real-world examples of how innovation, persistence, and vision drive breakthrough results.

This is more than a session—it's a masterclass in exploration thinking.



"From Moosehead to Mopane–Access to high quality data as a key driver for successful DHI led exploration in Namibia" Speaker: Teresa Martins, Galp



"Colombia & Sirius Discovery: Unveiling a New Frontier in Gas Exploration" Speaker: Marcos Vallério Gonçalves Galvão, Petrobras



"Sirius Gas Discovery - Geological Setting and Caribbean Offshore Exploration Historical Perspective" Speaker: Antonio Jose Velásquez Ecopetrol S.A.



"Direct Hydrocarbon Indicators in carbonates: current landscape, future potential?" Speaker: Henry S. Pettingill Rose and Associates



"New Frontiers in the Last Frontier– Pantheon Progress on the North Slope of Alaska" Speaker: Max Easley Pantheon Resources



Scan code for more details on this year's Special Features or download the mobile app.

Michel T. Halbouty Lecture

Topic: Living in a Remote Field Camp 240 MM

Miles from Home

Speaker: Jim Reilly, Senior Executive Advisor,

Booz | Allen | Hamilton Lead, In-Space

Manufacturing Initiative

Date: Wednesday, 27 August Time: 5:25 p.m.-6:15 p.m.

Location: George R. Brown Convention Center

Room 360A

Fee: Included with registration

This distinguished lecture series honors the pioneering spirit of Michel T. Halbouty—explorer, innovator, and visionary. Funded by the AAPG Foundation, the Halbouty Lecture spotlights bold, frontier-pushing ideas that align with his legacy of exploration excellence.

Each year, the lecture focuses on one of two transformative themes:

Wildcat Exploration: Showcasing breakthroughs in untapped regions with the potential to significantly increase global petroleum reserves.

Space Exploration: Exploring how astrogeological discoveries can unlock new resource frontiers—both on Earth and beyond.

Don't miss this thought-provoking session that celebrates the courage to explore the unknown.

Presented by the AAPG Foundation

Jim Reilly is a consultant to Booz Allen Hamilton's aerospace business. As a space systems expert and former astronaut, Jim works to develop innovative solutions for space-related services, earth systems characterization, and applications



for a variety of clients including the Department of Defense, National Oceanic and Atmospheric Administration (NOAA), National Aeronautics and Space Administration (NASA), and the intelligence community. In addition to Booz Allen, Jim is working with academic and professional organizations in developing future enabling capabilities supporting human Moon to Mars Program missions. Jim has more than 25 years of multidisciplinary technical, engineering, and management experience in resource assessments; applications-focused earth systems characterization; space systems development, applications, and operations; and education. From 2018 to 2021, Jim Reilly was the director of the U.S. Geological Survey (USGS) where he managed an annual \$1.8 billion operating budget for the nation's largest water, earth resources, biological science, natural hazards, and civilian mapping agency. Before USGS, Jim served U.S. and allied militaries as a subject matter expert on space operations, and as a technical advisor supporting the National Security Space Institute of the U.S. Air Force. As an astronaut at NASA, he had a distinguished 13-year career where he flew on three space shuttle missions and conducted five spacewalks totaling more than 856 hours in space. Jim has held management positions in academia, in addition to TAEUS Corporation and PhotoStencil Corporation in Colorado Springs, Colorado. He also served 17 years with the U.S. Navy as a reserve engineering duty officer and was designated a space systems expert in the Space Cadre. Jim earned his bachelor's, master's, and doctorate degrees in geosciences from the University of Texas at Dallas.

Honors and Awards Ceremonies

SEG Honors and Awards Ceremony

Date: Tuesday, 26 August Time: 6:30 p.m.-7:30 p.m. Location: Hilton Americas-Houston

Ballroom of the Americas A/B/C

Fee: Included with registration

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 that have worked hard to advance our science and benefitted our Society.

AAPG Honors and Awards Ceremony

Date: Tuesday, 26 August Time: 6:30 p.m.-7:30 p.m.

Location: Hilton Americas-Houston.

Ballroom of the Americas D/E/F

Fee: Included with registration

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.

Technical Program Panels

Mergers & Acquisition Uncovered: Market Trends, Deal Execution, and Career Paths in Oil & Gas A&D and Private Equity

Date: Tuesday, 26 August **Time:** 10:20 a.m.–12:00 p.m.

Location: George R. Brown Convention Center, 360A

Fee: Included with registration

Panelists: Don Burdick, Olifant Energy; Cristina Stellar, BOK

Financial; Peter Dillett, Birch Resources II

Speakers: Matt Dangel, Red Stag Resources; Richard Ball,

Red Stag Resources

Moderator: Sean Kimiagar, Energy Basix

This panel highlights technical experts (Geoscientists & Engineers) who transitioned from purely technical roles to leading business strategy, M&A, and company growth. Hear how they broke into the deal world, lessons learned from the boardroom, and how technical expertise can drive commercial success. Ideal for anyone curious about expanding their impact beyond technical subsurface world.

The speakers will discuss what it takes to raise money and build a company in today's market. This talk features energy entrepreneurs sharing firsthand insights on capital raising, navigating A&D, and startup strategy. From deal structure to investor pitch, learn what founders need to success, and what they wish they'd known starting out.

New Energies and Energy Transition: CCS Economics, Environmental Aspects, and Regulatory Frameworks

Date: Wednesday, 27 August **Time:** 10:20 a.m.–12:00 p.m.

Location: George R. Brown Convention Center, 362A

Fee: Included with registration

Panelists: Wadii El Karkouri, TGS; Sarah Forbes, United

States Department of Energy; Jennifer L Wilding,

Chevron; Sandeep K. Chandola, PETRONAS

Moderator: Lorraine Chambon, Technip Energies

This session will explore the financial, environmental, and regulatory dimensions of carbon capture and storage (CCS) through insights from energy executives, environmental advocates, and technical experts. Topics include financing models, environmental monitoring, global regulatory comparisons, and opportunities for international collaboration. Attendees will gain practical takeaways, including best practices, lessons learned, and a foundational understanding of how to implement CCS projects.

Best of EAGE 2025

Don't miss the Best of EAGE! This year's program features standout presentations from EAGE 2025. **Date:** Wednesday, 27 August **Time:** 8:00 a.m. – 9:40 a.m.

Location: George R. Brown Convention Center

Room 361B

Speakers: Multiple speakers presenting

Chairs: Sandeep Chandola and Martin Widmaier

Fee: Included with registration

New Technology Showcase

George R. Brown Convention Center, Room 310

Discover innovation at its best. This showcase connects groundbreaking technologies to new markets and funding opportunities, and features new technology presentations and panels with scouts, investors, accelerators, and successful innovators.

Tuesday, 26 August

Wednesday, 27 August

2:00 p.m.	WOMEN IN TECHNOLOGY PANEL	2:00 p.m.	NEW TECHNOLOGY TRENDS PANEL
	Panelists: Maria Angela Capella, Red Tree; Andrea Crook, Optiseis; Wambui Mutoru, Equinor; Kristi McLin,		Panelists: Nestor Santos, Chevron Technology Ventures; Alyssa Karotkin, Equinor; Rusty Gilbert, JR Gilbert Energy;
	ConocoPhillips; Alyssa Karotkin, Equinor; Deborah Sacrey,		Huyen Bui, Shell; Amy Henry, Eunike Ventures; Allen
	Auburn Energy		Bertagne, BRT Energy Advisors; John Hand, ConocoPhillips
3:00 p.m.	Cold-ResStor™: Smarter Cooling for the Digital Age	3:00 p.m.	PIEScale Express: Smart, Rapid Data Ingestion & Management
3.00 p.111.	Powered by the Earth	3.00 p.111.	Sashi Gunturu, Petrabytes
	Hamed Soroush, Teverra	3:10 p.m.	DataMoKsha: Unleashing the Power of LLMs and
3:10 p.m.	Open-Sources 3D PFA Software	3.10 p.111.	Generative Al Across the Energy Value Chain
3.10 p.m.	Nicole Taverna, NREL		Sunil Garg, DataVedik
3:10 p.m.	EcoSeis™, enabling a reduction in land footprint and GHG	3:20 p.m.	Andy Cubes: Tool connecting fault and fractures to stresses
5.25 p	emissions	5.25 p	Molly Turko
	Andrea Crook, Optiseis	3:30 p.m.	Shaleforce: Al for geothermal
3:20 p.m.	Space Weather Forecasts for More Accurate Oil and Gas		Patrick Ng
	Exploration	3:40 p.m.	GeoGPT: LLM Gen Al for geoscience
	Scott McIntosh, Hale Spaceweather		Yitian Xiao
3:30 p.m.	Platform for Real-Time Geoscience Data and Al for Smart,	3:50 p.m.	Halliburton ResX: Ensemble Modeling
	Fast Wells		Megan Kuhn, Halliburton
	Asim Siddiqui, Corva	4:00 p.m.	FIRESIDE CHAT: SUPPORTING START-UPS
3:40 p.m.	Modular Multi-Fuel Microgrid and Distributed Generation		Panelists: Lawson Gow, Greentown Labs, Nampetch Yamali,
	Facility (DGF) Platforms		Chevron Technology Ventures, Haydon Mort, Geologize,
	Ademola Fagade, GeoPrime Energy		Elizabeth Collins, Woodside
3:50 p.m.	Bridging the Innovation - Execution Gap through a	4:30 p.m.	CLARA: Discover, ask questions, generate reports from
	collaboration-first platform		your vast array of data
	Rekha Patel, Xrathus		John Boden
4:00 p.m.	Globally acclaimed geocommunication training program,	4:40 p.m.	Al Driller: Automated Drilling, frac designs, completions
	Practical Geocommunication		Richard Zamora
	Haydon Mort, Geologize	4:50 p.m.	DWL: Use of Robotics, AI, and Automation for Real-Time
4:10 p.m.	Open-Sources 3D PFA Software		Wellsite Geologic Analysis
	Nicole Taverna, NREL		Aaron Swanson
4:20 p.m.	Sustainable Lithium Technology	5:00 p.m.	CO ₂ Smart: Real-Time Closed Loop Monitoring for
	Wambui Mutoru, Equinor		Optimization and Risk Management
4:30 p.m.	AspenTech Subsurface Intelligence (ASI) connected to		Behnam Jafapour, USC
	OSDU data platform		
4.40	Emmanuel Gringarten		
4:40 p.m.	Influencia: Maximize your social media impact		
4.E0 n m	Michael Nash, Oklahomaware		
4:50 p.m.	Automated Lithology: Utilization of digitally connected		
	hardware to derive decision-ready subsurface information from cuttings		
	Benedict Geaghan, SLB		

Special Events and Networking

Monday, 25 August

Women's Network Geology of Coffee

George R. Brown Convention Center, Room 310B 2:00 p.m.-3:30 p.m.

Exhibition and Icebreaker Reception

George R. Brown Convention Center, Exhibit Hall D/E 5:30 p.m.-7:30 p.m.

Following the Opening Session head over to the Exhibition for drinks and hors d'oeuvres. Connect with old friends and colleagues or cultivate new business relationships while networking with exhibitors.

Tuesday, 26 August

Refreshment Breaks

George R. Brown Convention Center, Exhibit Hall D/E 9:30 a.m.-10:30 a.m. (Tuesday-Thursday) and 3:00 p.m.-4:00 p.m. (Tuesday-Wednesday)

Face-to-face networking is one of the most effective ways to meet vendors, suppliers, and service providers. Grab a cup of coffee or tea and visit with industry experts, innovators, and influencers to see the latest technologies and innovations.

End-of-Day Receptions

George R. Brown Convention Center, Exhibit Hall D/E 5:00 p.m.-6:00 p.m. (Tuesday and Wednesday)

End your day in the Exhibition by enjoying a drink and appetizer. Meet fellow professionals, product and service providers, and business prospects to exchange ideas and gain competitive intel that will help drive your success.

SEG Geoscientists without Borders® Reception Marriott Marguis Houston, Scot Cotton 5:00 p.m.-6:00 p.m.

Join us for drinks and hors d'oeuvres to immerse yourself in the humanitarian aspect of applied geosciences to serve the communities in need. Guests will have a chance to view short presentations and hear from student participants about how they are working to save lives from geohazards, providing safe water access and habitat management in India, Guatemala, Senegal, Vietnam, and USA. Presentations will be followed by a unique opportunity to interact with the principal investigators and students from these countries.

SEG Near-Surface Geophysics Reception Marriott Marquis Houston, Scot Cotton 7:00 p.m.-10:00 p.m.

The Near Surface Geophysics Reception will include presentation of the Harold Mooney Award and the Near Surface Honorary Life Award to the 2025 recipients and introduction of the new leadership. NSG attendees and students are invited to join us as we network and enjoy some light food and beverages.

AAPG/SEG Presidents' Reception (by invitation only)

Hilton Americas-Houston, Grand Ballroom D/E/F 7:30 p.m.-9:00 p.m.

Presidential Jam

Hilton Americas-Houston, Grand Ballroom A/B/C 9:00 p.m.-12:00 a.m.

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.

Wednesday, 27 August

AAPG Foundation Forum

Marriott Marguis Houston, Montgomery 8:30 a.m.-10:00 a.m.

All-Alumni Reception

Marriott Marquis Houston, Houston Ballroom 3 5:30 p.m.-7:30 p.m.

Participating colleges and universities include:

- Rice University
- University of Colorado Boulder
- University of Miami
- University of Missouri-Rolla / Missouri University of Science and Technology

Private Alumni Receptions

Marriott Marguis Houston

5:30 p.m.-7:30 p.m.

- Colorado School of Mines Geophysics GP@100 Alumni Reception and Research Showcase: Houston Ballroom 4
- Texas A&M University Department of Geology & Geophysics: Scot Cotton
- Texas Tech University and the Department of Geosciences:
- University of Houston: Houston Ballroom 1
- University of Oklahoma: Fort Bend
- West Virginia University: Galveston B

- The University of Kansas Department of Geology: Birch Resources, LLC, 909 Fannin St., 14th Floor, 5:30 p.m.-8:00 p.m.
- Jackson School of Geosciences at The University of Texas at Austin: Little Woodrow's EaDO, 801 St. Emanuel St., 6:00 p.m.-8:00 p.m.

AAPG/SEG Latin America and Caribbean Region Meeting and Reception

Hilton Americas-Houston, Ballroom of the Americas D/E 6:30 p.m.-8:00 p.m.

AAPG Latin America and Caribbean Region President, Carlos Macellari, and SEG Latin America Regional Advisory Committee Chair Marco Nieto, invite friends and members to join us for a meeting and networking reception. Enjoy light snacks and beverages, meet your leadership teams, and learn about upcoming events and educational programs.

AAPG Foundation Chairman's Reception (by invitation only)

Hilton Americas-Houston, Ballroom of the Americas A/B 6:30 p.m.-8:30 p.m.



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Breakfast and Luncheons

All-Convention Luncheon

Topic: Leadership Dialogue

Speaker: Sylvia Anjos

Director of E&P, Petrobras

Moderator: Bob Fryklund, S&P Global Commodity

Insights

Date: Tuesday, 26 August
Time: 11:30 a.m.-1:15 p.m.

Location: Ballroom B Fee: \$80

SEG Gravity and Magnetics and Mining and Mineral Exploration Joint Luncheon

Topic: From the smallest to the largest - How

nuclei help us to understand the stars

Speaker: Philip Adsley, Assistant Professor at Texas A&M University, Department of Physics & Astronomy, and

the Cyclotron Institute

Date: Wednesday, 27 August Time: 11:30 a.m.-1:00 p.m.

Location: Room 330 Fee: \$75

AAPG Division of Professional Affairs (DPA) Luncheon

Topic: Energy Update: Tariffs, Subsidies, and

Uncertainty

Speaker: Jesse Thompson, Energy Economist for the

Dallas Federal Reserve Bank

Date: Wednesday, 27 August Time: 11:30 a.m.-1:00 p.m.

Location: Room 310B

Fee: \$75

Women's Network Luncheon

Topic: Beyond the Surface: Generative AI's Role in

Next-Gen Subsurface Characterization

Speaker: Kim Padeletti, Amazon Web Services

Date: Wednesday, 27 August Time: 11:30 a.m.-1:00 p.m.

Location: Room 320B

Fee: \$75 Professionals, \$45 Students

Women's Network Breakfast

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

Date: Thursday, 28 August Time: 7:00 a.m.–10:00 a.m. Location: Phoenicia MKT

Fee: \$15 Early and \$20 Walk-Ups

SEG Development and Production Luncheon

Topic 1: Continuous improvement and value

maturation of 4D seismic in mature fields

Speaker 1: Maria Tatanova-Malhaire, Principal

Production Geophysicist at Shell

Topic 2: OBN for a passive margin? The streamer to

seafloor transition story in Guyana

Speaker 2: William A. Burnett, Geophysics Integrator at

ExxonMobil

Date: Thursday, 28 August Time: 11:30 a.m.-1:00 p.m.

Location: Room 330

Fee: \$75

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

Topic: The Relationship of Geology to Produced

Water Composition and Quality

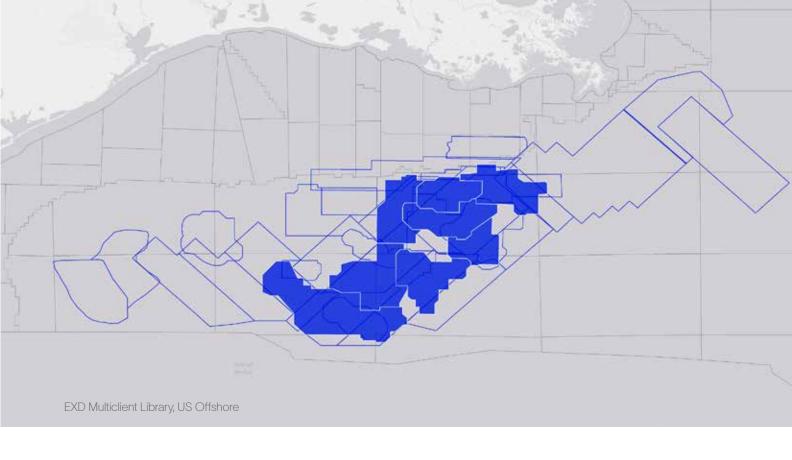
Speaker: Kristie McLin

Director, Subsurface Technology Development ConocoPhillips

Date: Thursday, 28 August Time: 11:30 a.m.-1:00 p.m.

Location: Room 310B

Fee: \$75



Explore the Offshore U.S. with SLB Exploration Data

- → Experience a step-change in imaging technology. Discover our engagement program featuring ultralong-offset, elastic full-waveform inversion (EFWI) and ocean-bottom node (OBN) acquisition, providing continuous coverage from Green Canyon to Keathley Canyon
- → Comprehensive data coverage. Access both wide-azimuth (WAZ) and recently reimaged seismic data to illuminate complex sub-salt targets.
- → Data is available for the December 2025 lease sale.

Visit us at Booth #1223



Find out more at slb.com/multiclient

Carbon Management Pavilion

Located at the front of the Exhibition Hall, the Carbon Management Pavilion is your destination for the latest in CCUS innovation. New this year, attendees can explore core samples from active carbon capture, utilization, and storage (CCUS) projects. The pavilion will also feature six themed sessions, each showcasing dynamic vendor presentations followed by engaging panel discussions led by industry operators.

Oklahoma State University/SEG EVOLVE | Magnolia McLaughlin, Student/Rising Early Professional



Tuesday, 26 August

9:15 a.m.–9:35 a.m.	Unlocking Carbon Storage Potential: Harnessing Legacy Data, Cutting-Edge Seismic, and Critical	Session Theme: 2:40 p.m. – 3:00 p.m.	Core for Carbon Management Projects Seequent Kathleen Gould, Booth Tour
	Well Information for CCUS Success	3:40 p.m4:00 p.m.	Significance of Core Data in Characterizing Fluvial
	Ovation Data James Laming, Vice President Global		Reservoirs for CO2 Sequestration: An Example
	Operations		from the Cranfield Pilot Project, Mississippi, USA Bureau of Economic Geology (BEG), Univ. of Texas at
Session Theme:	Complimentary Geophysics: Seismic and		Austin Carlos A. Uroza, Research Scientist Associate
Session Theme.	Non-Seismic Methods	4:10 p.m.–5:00 p.m.	Core Viewing with BEG Experts
10:00 a.m.–10:20 a.m.	Multi-Technology Imaging for Efficient & Effective	6	
	MMV Plans		
	Optiseis Andrea Crook, CEO	W	ednesday, 27 August
10:20 a.m10:40 a.m.	Legacy Insights to Modern CCS Evaluation: An		
	Integrated Approach to Optimising Subsurface	9:15 a.m.–9:35 a.m.	Geological Carbon Storage: Scope and Challenges
	Suitability Analysis		in India
10·40 a.m. 11·00 a.m.	Geoex MCG Mike Powney, Geoscience Manager Nexus of Carbon and Seismicity: Intricate Balance		CSIR-National Geophysical Research Institute Nimisha Vedanti, Chief Scientist
10.40 d.III11.00 d.III.	of Subsurface Activity	9:35 a.m.–9:55 a.m.	Fit For Purpose Seismic Acquisition for Carbon
	Instrumental Software Technologies, Inc. Josh	5.55 d.m. 5.55 d.m.	Storage Applications
	Stachnik, Chief Geophysicist		MicroSeismic, Inc. Peter M. Duncan, President
11:00 a.m11:20 a.m.	To Image or Not to Image? The Dilemma of CCS		and CEO
	Surveillance		
	Spotlight Habib Al Khatib, CEO	Session Theme:	Winning the Race for Pore Space: Class I v.
11:20 a.m.–12:00 p.m.	PANEL DISCUSSION	40.00	Class II v. Class VI
	Panelists: Mike Powney (Geoex MCG), Josh Stachnik	10:20 a.m.–10:40 a.m.	The Well that Wasn't: Profiting from Not Producing
	(ISTI), Habib Al Khatib (Spotlight) Moderator: Michel Verliac (TotalEnergies)		Haas and Cobb Petroleum Consultants Melissa Northcott, Principal Geologist
12:30 p.m.–1:10 p.m.	PANEL: Leading the Charge in CCS: Women Driving	10:40 a m =11:00 a m	Balancing Injection Projects and Pore Space
12.30 p.m. 1.10 p.m.	Innovation and Change	10.10 4.111. 11.00 4.111.	Competition in the Gulf Coast
	Panelists: Jeniffer Masi (Geoex MCG, Chief		Geostock Sandia Sylvain Riba, CEO
	Geoscientist), Taís Soares (Vallourec New Energies,	11:00 a.m11:20 a.m.	The Role of Class II AGI Wells in Carbon
	North America Business Development Manager),		Sequestration
	Sougata Halder (TGS, New Energies Project		BKV Corporation Grace Bastianon, Geophysical
	Management)	44.00	Advisor
	Moderator: Maria Angela Capello (Red Tree	11:20 a.m.–12:00 p.m.	
1:20 p.m.–1:40 p.m.	Consulting LLC) Fueling the Energy Workforce: The Value of		Panelists: Melissa Northcott (Haas and Cobb Petroleum Consultants), Sylvain Riba (Geostock
1.20 p.m1.40 p.m.	Technical Experience & Exposure Within your		Sandia), Grace Bastianon (BKV Corporation)
	Education		Moderator: Caroline Wachtman (Oxy)
			,

Session Theme:	Risk Management for CCS/CCUS projects	7	Thursday, 28 August
1:20 p.m.–1:40 p.m.	A New Paradigm for Quantitative Risk Assessment		
	of CCS Projects Rose Subsurface Assessment Juliet Irvin, Principal	9:15 a.m.–9:35 a.m.	Unlock CCS Potential: Risk Reduction through Data Completeness and Auditability
	Consultant		Ovation Data Jasmine Tran, Head of Strategic
1:40 p.m2:00 p.m.	CCUS Project Risk in Focus: Key Strategies and Risk		Partnerships and Global Key Accounts
	Finance Considerations		
2:00 p.m.–2:20 p.m.	Marsh Bill Kost, Energy & Power Advisory Leader–SVP Coupled Flow-Geomechanics Simulations for	9:40 a.m.–10:00 a.m.	The RegReady Map Tool: How Ready Is Your State
2.00 p.m. 2.20 p.m.	Predicting Leakage Pathways		for Geologic Carbon Sequestration? GSI Environmental Inc. Danny Kingham, Senior
	Ridgeline Engineering, LLC Kyle Trainor, Principal		Associate Hydrogeologist
	Consultant & President		
2:20 p.m.–3:00 p.m.	PANEL DISCUSSION Panelists: Peter Carragher (Rose Subsurface	Session Theme:	Software for the Long Game: Visualization and
	Assessment), Bill Kost (Marsh), Kyle Trainor, (Ridgeline	10·20 a m =10·40 a m	Databases for CCS Projects Generative AI for CCUS Permitting
	Engineering, LLC)	10.20 a.m. 10.40 a.m.	ClassVI.ai Anya Shvilpe, Chief Product Officer
	Moderator: Camelia Knapp (Oklahoma State University)	10:40 a.m11:00 a.m.	Timely Subsurface Monitoring: A Critical Need for
3:05 p.m.–3:25 p.m.	Review of Environmental Testing and Monitoring		Widespread Utilization of Subsurface
	Plans Proposed for UIC Class VI Sites GSI Environmental Inc. Danny Kingham, Senior	11.00 11.20	Teverra LLC Qiuliang Yao, Rock Physics Lead
	Associate Hydrogeologist	11:00 a.m.–11:20 a.m.	Digital Management of Multiple Platforms for CO ₂ Numerical Simulation
			Orinda Geophysical William Abriel, CEO
Session Theme:	Visualization Tools for Impactful Carbon	11:20 a.m.–12:00 p.m.	
7.40	Management Projects		Panelists: Anya Shvilpe (ClassVI.ai), Qiuliang Yao
3:40 p.m.–4:00 p.m.	VSP's - An Up Close Look Optiseis Solutions Shane Bossaer, VSP Manager		(Teverra LLC), William Abriel (Orinda Geophysical)
4:00 p.m4:20 p.m.			Moderator: Rachael Moreland (S&P Global)
	Management Assessment and Operations	Session Theme:	Optimizing Low Carbon EOR Projects
	Katalyst Data Management Jess Kozman, Senior	1:20 p.m.–1:40 p.m.	Low-Carbon Additive-EOR: Innovation and
4.20 4.40	Principal Consultant		Scale-Up Through Strategic Partnerships
4:20 p.m.–4:40 p.m.	Surface Fiber Imaging for CCS Viridien Trevor Coulman, Business Development		The Dow Chemical Company Amit Katiyar, Technology Leader–EOR
	Associate	1:40 p.m2:00 p.m.	Optimizing Low Carbon EOR Projects: A Laboratory
4:40 p.m5:20 p.m.	PANEL DISCUSSION	2.10 p 2.00 p	Perspective
	Panelists: Jess Kozman (Katalyst Data Management),		Intertek Westport Technology Center Yani Carolina
	Trevor Coulman (Viridien)		Araujo de Itriago, Program Manager EOR and Flow
	Moderator: Rachael Moreland (S&P Global)	2:00 p.m.–2:20 p.m.	Assurance Services Tracer-Based CO ₂ Management: Differentiation,
		2.00 μ.m.–2.20 μ.m.	Detection, and Digital Verification
			Tracerco Fredrick Tyler, Global Sales Executive
		2:20 p.m3:00 p.m.	PANEL DISCUSSION





Scan for the latest information or use the mobile app.

Panelists: Amit Katiyar (The Dow Chemical Company), Yani Carolina Araujo de Itriago (Intertek Westport Technology Center), Fredrick Tyler

Moderator: Caroline Huet (Oxy)

(Tracerco)

Digitalization Pavilion

Explore three full days of cutting-edge content in the Digitalization Pavilion, featuring key themes that are shaping the future of geoscience: Data Standards, High Performance Computing, Generative AI, and Digital Innovation for Energy Production and Transition. Don't miss this opportunity to see digital transformation in action!



Tuesday, 26 August

Wednesday, 27 August

9:15 a.m.–9:35 a.m.	AAPG KEYNOTE Impact of AI/ML on Technology Trends in Geoscience	9:15 a.m.–9:35 a.m.	SEG KEYNOTE Address from the President SEG Joseph Michael Reilly, President
10:20 a.m.–10:40 a.m.	Drilling and Completion Operations with WITSML		Practical Applications for Al in the E&P Industry S&P Global Rachel Moreland, Vice President-Global Energy Software & Technology Strategy
	2.1 and ETP 1.2	10:40 a.m.–11:00 a.m.	The Future of Energy is Here: How Al is Driving the
10:40 a m –11:00 a m	Bardasz Robert Schave, Director of Operations & IT Industry Transformation in the Era of AI		Energy Transition Microsoft Rob Schapiro, Senior Director, Energy
10.10 d.m. 11.00 d.m.	Microsoft Maitri Erwin, Energy Industry Advisor		Partnerships
11:00 a.m.–11:20 a.m.	ExxonMobil: Our Past and Future with the OSDU	11:00 a.m.–11:20 a.m.	Enriching Your Data Using Artificial Intelligence
	Data Platform		Builds a Foundation of Trust, Transparency, and
11.20 2 12.00 2	ExxonMobil Jacob Jackson, OSDU Product Manager		Timeliness
11.20 a.m.–12.00 p.m.	PANEL DISCUSSION Panelists: Robert Schave (Bardasz), Maitri Erwin	11·20 a m =11·40 a m	i2k Connect Eric Schoen, Chief Technical Officer Al Assisted Data Pipelines
	(Microsoft), Jacob Jackson (ExxonMobil)	11.20 d.m. 11.40 d.m.	Bahwan Cybertek Clay Harter, CTO
1:20 p.m1:40 p.m.	Powering the Future: Is Al Just Buzz or the Real Deal	11:40 a.m12:00 p.m.	The Power Behind the Image: HPC for Geoscience
	in Energy?		Viridien Kawin Nimsaila, Senior Research Advisor
	NVIDIA Nefeli Moridis, Global Head of Subsurface	1:20 p.m.–1:40 p.m.	Visual Data Science and Geoscience in Energy
1:40 n m 2:00 n m	Energy Al Agents and Agentic Al: Keeping Pace with the	1:40 p.m2:00 p.m.	Spotfire Michael O'Connell, Chief Analytics Officer <i>Drill Smarter: How ROGII's Cloud Solutions</i>
1:40 p.m.–2:00 p.m.	Changing Face of "Digital"	1.40 p.m2.00 p.m.	Transform Geosteering & Drilling Practices
	Chadwick Holmes, Sr. Manager, Data Technology & Al		ROGII Igor Uvarov, CEO
2:00 p.m2:20 p.m.		2:20 p.m3:00 p.m.	PANEL DISCUSSION
	Data Solution		Panelists: Michael O'Connell (Spotfire), Igor Uvarov
	Viridien Porsche Adams, Project Leader		(ROGII)
2:20 p.m2:40 p.m.	Agentic AI in Action: Context-Driven AI for	7.40	Moderator: Chris Hanton (Amazon)
	Real-Time Reservoir Optimization	3:40 p.m4:00 p.m.	Optimizing Seismic Survey Design Part 1 Optiseis Solutions Andrea Crook, CEO
	Microsoft Julian Moreno, Senior Industry Advisor Energy & Resources	4:00 p.m4:20 p.m.	Why Geophysics needs a Reasoning Large
2:40 p.m3:00 p.m.	•	4.00 р.пт. 4.20 р.пт.	Language Model
	Applications		i2k Connect Joshua Eckroth, Chief Research Engineer
	S-Cube Christos Mavropoulos, Cloud and Machine	4:20 p.m4:40 p.m.	Building GenAl Knowledge Management Systems:
	Learning Lead		Challenges and Best Practices
4:00 p.m4:20 p.m.		4:40 n m	NVIDIA Pavel Dimitrov, Solutions Architect Manager
4:20 p.m4:40 p.m.	Maximizing Digital Transformation: The Power of Al-Ready Data	4:40 p.m.–5:00 p.m.	Unlocking Subsurface Insights: Case Studies in Computer Vision for the Energy Sector
	Ovation Data Jasmine Tran, Head of Strategic		Occidental Petroleum Ali Karimi, Lead Machine
	Partnerships and Global Key Accounts		Learning Engineer

Thursday, 28 August

9:15 a.m. – 9:35 a.m. **HPC and AI KEYNOTE**

The HPC-Al Society, Purpose & Mission
The HPC-Al Scoiety | Kannan Venkataraman,

Vice-President

10:20 a.m.-10:40 a.m. *Optimizing Seismic Field Operations Part 2*

Optiseis Solution | Alyson Yip, Geophysicist & GIS

Analyst

10:40 a.m.-11:00 a.m. RAG Is Not All You Need. How We Built

Successful Chat.

i2k Connect | Joshua Eckroth, Chief Research Engineer

11:00 a.m.-11:20 a.m. Building Tomorrow's Energy Operations: How

Well-Organized, Integrated Data Drives Success, Future-Proofing, and Sustainable Growth Ovation Data | James Laming, Vice President Global

Operations

11:20 a.m.-11:40 a.m. Blockchain For Energy

11:40 a.m.-12:00 p.m. A Midland Basin Case Study Predicting Reservoir

Properties Direct from Seismic Gathers - A Rock Physics Guided Machine Learning Approach GeoSoftware LLC | Ted Holden, Region Technical

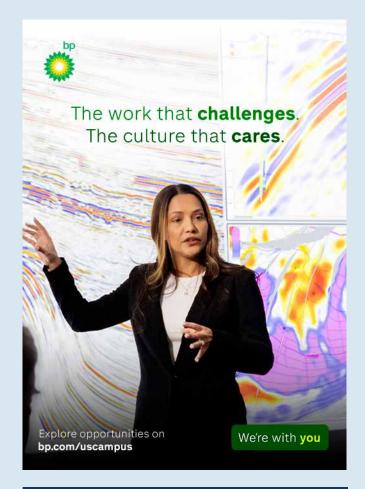
Manager - North America

1:20 p.m.–1:40 p.m. Make Better and Faster Business Decisions with

the Energy Industry Supported Trusted Data

Ecosystem (OSDU)

RockNRG LLC | Ryan Jarvis, Owner and CTO







Booth #1557



Scan for additional presentations and updated information or use the mobile app.

Geothermal Hub

Tap into the future of sustainable energy at the Geothermal Hub!

Join us for three full days of programming dedicated to geothermal exploration, subsurface innovation, and real-world project development. Hear from experts advancing geothermal technology and discover how geoscience is powering the global energy transition. Don't miss the conversations shaping geothermal's next chapter.

Panels and Networking Socials Tuesday, 26 August

1:00 p.m.-2:00 p.m. Data Sharing: Improving Models by Improving Inputs

Panelists: Mohammad (Jabs) Aljubran, Geothermal Researcher, National Renewable Energy Lab; Nicole Taverna, Geothermal Data Scientist, National Renewable Energy Lab; Paul Schwering, Subsurfer, Pacific Northwest National Lab

Moderator: Angela Seligman, Senior Geoscientist, Clean Air Task Force (CAFT)

Unlocking the potential of superhot rock geothermal depends on high-quality models, and these models are only as good as the data that feeds them. This panel explores how better data sharing across institutions, industries, and disciplines can lead to more accurate and reliable simulations. By improving model inputs, we can accelerate innovation, reduce risk, and realize the potential of superhot rock geothermal faster.

2:15 p.m.-3:15 p.m. Drilling Innovation in Diverse Superhot Geodynamic Settings

Panelist: PV (Suri) Suryanarayana, Chairman, Blade Energy Partners: Roman Shor, Associate Professor, Texas A&M University Moderator: Jenna Hill, Superhot Rock Geothermal Innovation Manager, Clean Air Task Force (CAFT)

Drilling into superhot rock in diverse geodynamic settings demands bold innovation to overcome extreme heat, pressure, and rock variability. This panel explores how breakthroughs in drilling technologies enable access to untapped geothermal resources in new regions. Expanding where we can drill is key to scaling superhot geothermal globally - unlocking its potential as a major clean energy source.

3:30 p.m.–4:30 p.m. *Oil and Gas to Superhot: Exploring the Opportunities*

Panelists: Greg Leveille, Chief Technology Officer, ConocoPhillips (Retired); Pradeep Ashok, Senior Research Scientist, University of Texas at Austin; Chuck Wright, Corporate R&D Manager, NOV Moderator: Angela Seligman, Senior Geoscientist, Clean Air Task Force (CAFT)

The oil and gas industry has the infrastructure, supply chains, and skilled workforce that can accelerate the rise of superhot rock geothermal. This panel explores how strengths from fossil energy can be used to power geothermal's expansion. Bridging these worlds offers a fast track to scalable, deep geothermal deployment.

4:30 p.m.-5:00 p.m. Geothermal Hub: Networking Social

Continue the conversation and connections as we delve deeper into the future of clean energy. This networking session is a chance to Presented by:



Companies Participating in the Geothermal Hub:

Geothermal Rising
MicroThermal Energy
NOV

Clean Air Task Force (CATF)
National Renewable Energy Lab
Pacific Northwest National Lab
Blade Energy Partners
Texas A&M University
Ignis H2 Energy Inc.

Texas Bureau of Economic Geology Geothermal Energy Advisors LLC.

Ormat Technologies

Seequent Teverra

Wintermoon Geotechnologies

Bird Geophysical RESPEC

ResFrac

Bentley Systems

Exceed Geo Energy

400C Energy

Tidal Wave Technologies

RAPID at UT Austin

Weatherford

Eavor Technologies, Inc.

Vallourec New Energies

Great Basin Center for Geothermal Energy

Use the mobile app or scan the QR code for the full Geothermal Hub schedule





	meet others working across disciplines, explore collaboration opportunities, and discuss emerging	Presentatio	ons
	priorities not yet covered in panel discussions.	Tuesday 9:30 a.m.	Drill Bits for Geothermal Applications, Walker Olson,
W	lednesday, 27 August	10:00 a.m.	NOV The "Clash" Between Oil and Gas and Geothermal
9:00 a.m.–10:00 a.m. WING - A Panel Discussion on The Geothermal Good Life			and How to Overcome This, Nasikul Islam, Exceed Geo Energy
	Panelists: Lauren Lopez, Business Development Manager, NOV; Paul Schwering, Subsurfer, Pacific	10:30 a.m.	Drilling Fluid Temperature Control , Reza Fard and Mark Canlas, NOV
	Northwest National Lab; Analiese Andersen, MicroThermal Energy Account Executive, MicroSeismic Inc.; Malcolm I. Ross, Strategic	11:00 a.m.	Superhot-Capable Stimulation and Flow Control Technologies for Economically Viable EGS, Blake
	Marketing Director and Black Swan Detector, Eavor Technologies, Inc.	11:30 a.m.	Wood and Jabs Aljubran, 400C Energy High-Temperature Tools for Geothermal Drilling and Formation Evaluation Servicess, Shaun Toralde,
	Moderator: Elizabeth Cambre, Business		Weatherford
	Development Manager, New Energies, Vallourec New Energies	2:00 p.m. 3:15 p.m.	Geothermal Hub: Networking Break Geothermal Hub: Networking Break
	Our mission is to promote the education, professional development, and advancement of women in the	Wednesday	W W
	geothermal community. Please attend this conversation to learn about the origins and objectives	10:00 a.m.	Microseismic Monitoring for EGS: Choosing the Right Technology, Analiese Andersen, MicroSeismic Inc.
	of Women In Geothermal (WING), the initiatives and	10:30 a.m.	Building the Next Generation Energy Company , Marcus Oesterberg, Ignis H2 Energy Inc.
	committees of the WING USA Chapter, and most importantly the benefits and impacts you can experience by becoming a WING member!	11:00 a.m.	Regional Geothermal Resource Assessment and Play Fairway Mapping for the Gulf Coast and East
3:00 n m =4:00 n m	Acquiring Geophysics for Geothermal:		<i>Texas</i> , Shuvajit Bhattacharya, HotRock, Bureau of Economic Geology, The University of Texas at Austin
3.00 p.m. 4.00 p.m.	Unexpected Challenges and Surprising Solutions	11:30 a.m.	Geothermal Hub: Networking Break
	Panelists: Josh Sellars, Project Geophysicist, Seequent;	1:00 p.m.	Geothermal Hub: Networking Break
	Kelly Blake, Resource Manager, Exploration Operations and Geophysics, Ormat Technologies	1:30 p.m.	Geophysical Workflows to Reduce Uncertainty in the Depth Prediction to [Petrothermal] Thermal
	Moderator : Philip Ball, Managing Director, Geothermal Energy Advisors LLC	2:00 p.m.	Reservoir, Philip Ball, Geothermal Energy Advisors LLC Optimized Stimulations of Enhanced Geothermal
	Geophysical data acquisition for geothermal exploration presents unique technical and logistical challenges that differ significantly from oil and gas or mining applications. This panel examines the	2:30 p.m.	System Doublet, Jon McKenna, MicroSeismic Inc. Field-Scale Innovation in Geothermal Geophysics: Lessons from Ormat, Kelly Blake, Ormat Technologies
	real-world obstacles encountered when deploying	Thursday	
	seismic, electromagnetic, gravity, and other	10:30 a.m.	The Geothermal Opportunity, Joe Batir, Teverra
	geophysical methods in geothermal environments, from high-temperature equipment failures to	11:00 a.m.	Meet Your New Geothermal Exploration Best Friends: The Utility of Gravity and Magnetics to
	complex subsurface geology interpretation. The discussion will cover both greenfield exploration		Jumpstart Geothermal Exploration , Michal Ruder, Wintermoon Geotechnologies
	and brownfield development scenarios, addressing the evolving needs of the geothermal industry as it	11:30 a.m.	Machine Learning Applications for Predicting Heat Flow and Thermal Conductivity in
	scales up globally.	1.00 n m	Northwest U.S., Dale Bird, Bird Geophysical
4:00 p.m.–5:00 p.m.	Geothermal Hub: Networking Social Converse with geothermal geophysicists, geologists, and industry professionals. This networking session is an opportunity to build relationships to support your work in geothermal exploration, development, and operations.	1:00 p.m.	From Concept to Confidence: Accelerating Geothermal Modeling from Structure to Simulation, Samantha Sellars, Seequent
		1:30 p.m.	Seasonal Storage in Middle-Deep Geothermal Systems, Roman Shor, Texas A&M University
		2:00 p.m.	Geothermal Power: The Next Frontier, Matthew Minnick, and Saurabh Agarwal, RESPEC
		2:30 p.m.	Advancing Enhanced Geothermal Systems: Leveraging Oil and Gas Technology to Unlock
		3:00 p.m.	Heat at Scale, Koenraad Beckers, ResFrac A Digital Framework for Integrated Geothermal Asset Performance, Sharon Soler, Bentley Systems

Global Energy **Opportunities Pavilion**

Explore Global Opportunities at the GEO Pavilion

The GEO Pavilion features an International Theatre with in-depth presentations from exhibitors around the world. Attendees will have the unique opportunity to explore a wide range of energy prospects and connect directly with country representatives who offer deep knowledge of local geology. Walk away with valuable insights into today's global energy landscape and emerging trends.





BELIZE / Ministry of Natural Resources, Petroleum & Mining

Belize Corozal Basin: Proven Plays, New Insights & Untapped Potential

Ashley Middleton, Geologist, Geology & **Production Department**



EL SALVADOR / Rio Lempa Hydroeletric Commission

From Untouched Frontier to Active Opportunity-Unlocking Offshore Potential in a Strategic Margin

Adrian Mayen, Geophysicist, Head of Hydrocarbon Studies Unit



ENVOI Global Deals

Martin Riddle, Technical Director



GAMBIA / Republic The Gambia Unlocking Potential: Exploration Opportunities in The Gambia

Jerreh Barrow, Director General, Petroleum Commission, The Gambia



GHANA / Petroleum Commission **Exploration & Production Potential in** Ghana

Ali Yahaya-Amin



GEOPARTNERS LTD Revealing Untapped Potential in a new ERA of Exploration, Offshore West Africa

Jim Gulland, Managing Director



INDIA / UH DGH Center for Hydrocarbon Exploration

India's Bid Round X: An Opportunity to Acquire some of the Most Promising Frontier Acreage in the World

David Hume, Research Manager



MOROCCO / Onhym

Unlocking Morocco's Promising Oil & Gas **Potential**

Didi Salwa, Offshore Evaluation Division Manager



MOZAMBIQUE / INP

Mozambique's Prospectivity: Unlocking Untapped Potential

Ezequias Matlava, Exploration Manager



NEWFOUNDLAND & LABRADOR / Department of Industry, Energy & Technology

Newfoundland & Labrador Energy Update

Jovan Petrovic, Director of Petroleum Geosciences



NOVA SCOTIA/ Department of Energy **Emerging Resource Development Opportunities**

Natasha MacAdam, Senior Geophysicist



OVATIONDATA

Maximizing Digital Transformation: The Power of AI ready Data

Jasmine Tran, Head of Strategic Partnerships & Global Key Accounts





PERU / Perupetro **Exploration Opportunities in Peru** Ysabel Calderon, Exploration Contracts Executive



SOUTH AFRICA / Petroleum Agency SA **Exploration Opportunities in South Africa** Sean Davids, Lead Geoscientist, Resource Management



SURINAME / Staatsolie (Offshore) New Opportunities Beyond the Golden Lane Offshore Suriname

Mitch Jie-A-Looi, Team Lead Open Acreage Management



TRINIDAD & TOBAGO / Ministry of Energy & Energy Resources 2025 Deep Water Competitive Bidding Round

Kimberlee London, Sr. Geologist, Resource Management Division



TUNISIA / ETAP **Tunisia Exploration Opportunities** Chadha Merdassi, Geologist



URUGUAY / ANCAP E & P Offshore Uruguay: Insights, Advances & Path Forward Santiago Ferro, Energy Transition Manager





Scan for the latest **GEO Pavilion information** or use the mobile app.

Near-Surface Pavilion

Located at the front center of the Exhibition Hall, this pavilion features technical panels covering a wide range of topics, including infrastructure, geohazards, hydrogeophysics, and climate impacts on the built environment. Additional activities are in the works — be sure to visit the Near-Surface Geophysics Pavilion webpage for the latest program updates.



Monday, 25 August

5:30 p.m.-5:40 p.m. **Near Surface Geophysics**

Laurie Whitesell, SEG

5:40 p.m.-5:50 p.m. Geoscientists without Borders®

Pallavi Bharadwaj, SEG

5:50 p.m.-6:00 p.m. Summer of Applied Geophysics Experience

John Furguson, UT, Dallas

Tuesday, 26 August

9:00 a.m.-9:10 a.m. Laurie Whitesell, SEG-Near Surface Geophysics

9:10 a.m.-9:20 a.m. Sustainable Solutions for Seismic Imaging Andrea Crook, OptiSeis

9:20 a.m.-9:30 a.m. **Digital Workflows for Groundwater**

Management: Leveraging Advanced Modeling

and Data Integration

Laura Quigley, Seequent

9:30 a.m. - 9:40 a.m. SEAM LEAP

Michael Oristaglio, SEAM

9:40 a.m.-9:50 a.m. eXtreamer — System Expansion for the Future

Tommy Rosa, Geometrics

10:00 a.m.-10:20 a.m. eXtreamer

Shawn Rice, Teledyne Marin

10:30 a.m.–11:50 a.m. Net Zero Emissions Panel – The Future is

Bright for Geophysics

Panelists: Adriana Citlali Ramirez, SEG; John

Bradford, Colorado School Mines: Derek

Gonsuron, S&P Global

This panel will discuss the factors driving the energy transition and subsurface technologies

that impact energy transition projects, including CCS, geothermal, minerals, wind, and nuclear.

12:00 p.m.-1:00 p.m. Near Surface Geophysics Community Meeting 1:10 p.m.-1:20 p.m.

GEOSTUFF Developments Doug Crice, GEOSTUFF

1:20 p.m.-1:30 p.m. Development of a Small Vibrator for use in

Shallow Imaging Projects

Mark Davidson, Telemark Energy Services 1:30 p.m. - 1:50 p.m. **Decoding Near Surface Seismic Complexities:**

Insights from the Permian Basin to the Arabian

Peninsula

Gabriele Busanello, SLB

2:00 p.m. - 2:10 p.m. Advances in High Resolution Near Surface

Marine Geophysical Data and Interpretation

Shane Smith, Fugro

3:30 p.m.-5:00 p.m. **Agrogeophysics Panel**

> Panelists: Barry Allred, Ohio State University; Solomon Ehosioke, University of California, Davis; Larisa Golovko, Landvisor and GeoTools

LLC; Javier Peralta, Ramboll

The panel on agrogeophysics aims to discuss the role of geophysics is agriculture and how the use of technology such as drones, ML/AI, etc. help to determine infiltration of water, nutrients, pesticides to address groundwater use and impacts. Also, the panel will discuss how the use of geophysics can reduce the amounts of pesticides and strategically place proper amounts of fertilizers, etc. We will also tie into the discussion the best practices and state of the art for geophysics in agriculture.

Wednesday, 27 August

9:00 a.m.-9:10 a.m. **Near Surface Geophysics**

Laurie Whitesell, SEG

Interpreting Shallow Seismic Surveys: A 9:30 a.m.-9:40 a.m.

Geometry Comparison Case Study

Michelle Montano, OptiSeis

9:40 a.m.-9:50 a.m. MagElement

Tiffany Bachtel, Geometrics

10:00 a.m.-10:10 a.m. Offshore Infrastructure Assessment Post-

Hurricane Study for Deep Learning Based Three-Dimensional Inversion of Magnetic Data

Souvik Mukherjee, EmPact-Al

10:30 a.m.-11:50 a.m. *Near Surface Geophysics Student Career Panel*

Panelists: Nicolette Filippone, Rutgers University; Cathy Truffert, IRIS Instruments; Jose Arce, Arce

Geofísicos

This panel addresses topics relevant to students entering careers and some of the challenge and opportunities for near surface geophysics students in a variety of endeavors.

12:00 p.m.-1:00 p.m. Hydrogeophysics Meeting

1:10 p.m.-2:40 p.m.

Cryogeophysics: Geophysical Characterization in Cold Regions Panel

This panel focuses on the use of near-surface geophysics to support site characterization, infrastructure development, and engineering design in Arctic, Alpine, and other cold-region environments. Panelists will discuss applications of geophysical methods—including groundpenetrating radar, electrical resistivity, seismic, and electromagnetic techniques—for mapping permafrost extent, identifying subsurface ice, assessing ground stability, and monitoring freeze-thaw processes. The session will highlight both field challenges and innovative solutions relevant to working in frozen ground and seasonally dynamic terrains.

2:50 p.m.-3:10 p.m.

UHR Streamer

Shawn Rice, Teledyne Marine

3:30 p.m.-5:00 p.m.

SEG-AEG Climate Change Deformation Impacts on Infrastructure and the Built Environment Panel

Panelists: Jacob Sheehan, Schnabel Engineering; Mark Higgins, Exponent; Kathryn Murdock, Exponent; Phillip Sinclair, Terracon

The impact of climate change on infrastructure from roads, bridges, tunnels, rail lines as well as building foundations and stability cannot be underestimated. Consequences of climate change from flooding, differential compaction, erosion, slope failure, storm-surge and rising sea-level to premature deterioration of materials caused by increased freeze-thaw cycles, increased moisture, and extreme temperatures can be observed worldwide. In areas characterized by clay soils like those encountered in and around Houston, where expansion and contraction of the overburden materials modify the competency of the bearing surfaces, degrading foundations and impacting infrastructure that over time can contribute to damage and failure on the urban environment. This panel discussion will focus on identifying and addressing impacts to the subsurface caused by climate related issues, especially the role of clay soils.

5:10 p.m.-5:20 p.m.

Geostuff Developments

Doug Crice, GEOSTUFF

5:20 p.m.-5:30 p.m. Development of a Small Vibrator for use in

Shallow Imaging Projects

Mark Davidson, Telemark Energy Services

5:30 p.m.-5:40 p.m. Digital Workflows for Groundwater

Management: Leveraging Advanced Modeling

and Data Integration

Laura Quigley, Seequent

Summer of Applied Geophysics Experience (SAGE) 5:40 p.m.-5:50 p.m.

John Furguson, UT, Dallas

Thursday, 28 August

9:00 a.m.-9:10 a.m. 9:10 a.m.-9:20 a.m. Laurie Whitesell, SEG, Near Surface Geophysics Summit on Drone Geophysics and UAVs and

Drones in the Geosciences Laurie Whitesell, SEG

10:30 a.m.-11:50 a.m. UAV and Drone Applications in the

Geosciences Panel

Panelists: Nathan Campbell, EDCON-PRJ; Juan Ortega, Collier Geophysics; Yuxin Wu, Lawrence

Berkely National Laboratory

This panel will discuss the various applications for drones in geoscience research and industrial applications as well as some of the challenges and opportunities the use of various geophysical sensors has in solving the customer's objectives.

The focus will be on case studies.

1:20 p.m.-2:50 p.m.

Novel Geophysical Sensors and UAV **Technologies Panel**

Panelists: Ty Audronis, Tempest Droneworx; Aaron Becker, University of Houston; Shuhab Khan, University of Houston

This panel is designed to address the next generation of research into improved UAVs, geophysical sensors for both on and off planet, and technologies that are moving drones forward in their capabilities to gather and generate data

for geosciences and related fields.



Near Surface Theater









Short Courses

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SC#	Title	Instructor(s)	Dates Times Location	Fees
SC-01	Chemometric Tools to Establish Petroleum Systems, Predict Physical Properties, and De-Convolute Mixed Production (AAPG)	Kenneth E. Peters, SLB NExT Training Brian G. Rohrback, Infometrix, Inc.	Sunday, 24 August 8:00 a.m.–5:00 p.m. Room 381A	\$600 Professional \$150 Student
SC-02	Seismic Methods for Urban Engineers (SEG DISC)	Yunyue Elita Li, Purdue University	Sunday, 24 August 8:00 a.m.–5:00 p.m. Room 352A	\$400 Professional Member \$560 Professional Nonmember \$100 Student
SC-03	Unconventional Reservoir Engineering for Geoscientists (AAPG)	Yogashri Pradhan, IronLady Energy	Sunday, 24 August 8:30 a.m.–5:00 p.m. Room 381B	\$600 Professional \$150 Student
SC-05	Forensic Data Processing (SEG DISC)	Joe Dellinger, BP	Sunday, 24 August 9:00 a.m.–5:00 p.m. Room 352B	\$400 Professional Member \$560 Professional Nonmember \$100 Student
SC-07	Advanced Sequence Stratigraphic Applications for Exploration and Development (SEPM)	Vitor Abreu, Consultant Rene Jonk, ACT Geosciences	Sunday, 24 August 8:30 a.m.–4:00 p.m. and Monday, 25 August 8:30 a.m.–4:00 p.m. Room 381C	\$600 Professional \$230 Student
SC-09	Understanding Carbonate Processes, Deposition, and Preservation: Breakthroughs and Challenges (SEPM)	Ben Rendall, University of Potsdam Buddy Price, Devon Energy Ted Playton, Chevron Paul (Mitch) Harris, University of Miami	Sunday, 24 August 8:30 a.m.–5:30 p.m. and Monday, 25 August 8:30 a.m.–4:00 p.m. Room 371BCEF	\$250 Professional \$50 Student
SC-11	Exploration and Development Aspects of Geothermal Energy (AAPG EMD Geothermal Committee)	Nicole Wagoner, University of Nevada Reno Ken Wisian, Texas Bureau of Economic Geology Kevin McCarthy, Baker Hughes Benjamin Burke, Gradient Geothermal Emilie Gentry, TEVERRA Shanna Chu, Fervo Energy	Monday, 25 August 8:00 a.m.–4:00 p.m. Room 381A	\$500 Professional \$150 Student
SC-12	Innovations in Land Seismic Acquisition (SEG)	Andrea Crook, OptiSeis	Monday, 25 August 8:00 a.m.–4:00 p.m. Room 352A	\$500 Professional Member \$650 Professional Nonmember \$250 Student
SC-13	Applied Biostratigraphy: Utility in the Oilfield (AAPG and SEG Women's Networks)	Alicia Kahn, Lawrence Febo, and Rebecca Hackworth, Chevron Katrin Ruckwied, Ellington Geological Services Iain Prince, Shell	Monday, 25 August 8:00 a.m.–5:00 p.m. Room 381B	\$150 Professional \$25 Student
SC-15	Introduction to Scientific Machine Learning for Geophysicists (SEG)	Umair bin Waheed, King Fahd University of Petroleum and Minerals	Monday, 25 August 8:00 a.m.–5:00 p.m. Room 352B	\$850 Professional Member \$1,000 Professional Nonmember \$150 Student
SC-16*	Seismic Stratigraphy and Geomorphology for Graduate Students (SEPM)	Kenn Ehman, Selen Esmeray-Senlet, Andrea Lisi, Shann Khan, and Chad Holmes, Chevron	Monday, 25 August 8:30 a.m.–5:00 p.m. SLB Training center	\$30 Students Only

^{*}The location for SC-16 will be the SLB Training Center, 10001 Richmond Avenue, Houston. All other courses will be held at the George R. Brown Convention Center.

Postconvention Workshops

Wrap Up Your Week with Postconvention Workshops

Cap off a productive week at IMAGE by attending one (or more!) of the 17 Postconvention Workshops, all happening Friday, 29 August. These workshops cover a wide range of timely and technical topics designed to deepen your expertise.

Pricing:

- \$150 SEG/AAPG Members
- \$270 Nonmembers
- \$50 Student Members
- \$70 Student Nonmembers

Registration includes access to any or all workshops, space permitting.

Please note: Seating is limited and available on a first-come, first-served basis. If space allows, attendees may switch between workshops. For full speaker details and session info, visit the IMAGE website or check the mobile app.

W #	Workshop Title	Lead Organizer(s)	Location	Time
W-1	Advancements and the Road Ahead in 4D Seismic: A Follow-Up Discussion	Xin Cheng	GRBCC Room 370A	8:30 a.m.–12:00 p.m.
W-2	Advancements and the Road Ahead in 4D Seismic: Case Studies	Shauna Oppert	GRBCC Room 370A	1:30 p.m5:00 p.m.
W-3	New Insights and Methods of Basin Modeling for Predicting Hydrocarbon Play Fairways	Paul Mann	GRBCC Room 351A	8:30 a.m.–12:00 p.m.
W-4	Advances in Subsurface Characterization, Fractures, and Geomechanics	Julian Yao	GRBCC Room 361A	8:30 a.m.–12:00 p.m.
W-5	Bridging the Gaps for Effective CCS Deployment	Nimisha Vedanti	GRBCC Room 362A	8:30 a.m.–12:00 p.m.
W-6	Distributed Fiber-Optic Sensing (DFOS): New Frontiers in Geophysical Applications	Aleskei Titov	GRBCC Room 360A	8:30 a.m5:00 p.m.
W-7	FWI Hackathon Showcase CANCELLED			
W-8	FWI Products for Reservoir Characterization	Dhananjay Kumar	GRBCC Room 361B	8:30 a.m.–12:00 p.m.
W-9	Innovative Solutions in Quantitative Interpretation (QI): Bridging Challenges with Advanced Technologies	Leticia Luebbert	GRBCC Room 362B	8:30 a.m.–12:00 p.m.
W-10	Lithium Mineral Systems Analysis	Alexandra Price; Eric Schrimisher; Francesco Putzolu; Cristian Pereira	GRBCC Room 351A	1:30 p.m5:00 p.m.
W-11	Machine Learning in Geosciences in the Age of Generative Al	Haibin Di	GRBCC Room 351B	8:30 a.m5:00 p.m.
W-12	Quantum Computing in Geosciences: Is it time to get ready?	Mrinal Sen	GRBCC Room 371B	8:30 a.m.–12:00 p.m.
W-13	Recent Advances in Applied Math and Potential Applications in Seismic Imaging and Analysis	John Etgen	GRBCC Room 361A	1:30 p.m5:00 p.m.
W-14	Re-thinking Induced and Passive Seismic (IPS)	Dan Hollis; Weiping Cao	GRBCC Room 362A	1:30 p.m5:00 p.m.
W-15	The Business of Heat: Technoeconomic Insights into Geothermal Energy	Gabe Matson; John Holbrook	GRBCC Room 362B	1:30 p.m5:00 p.m.
W-16	The Leading-Edge Developments in Geothermal Energy: Enhanced Geothermal Systems, Closed-Loop, and Superhot Systems	Shuvajit Bhattacharya	GRBCC Room 371A	8:30 a.m.–12:00 p.m.
W-17	The Use of Seismic in Well Delivery: Current Practices and Road Ahead	Jennifer Holley	GRBCC Room 371B	1:30 p.m5:00 p.m.
W-18	Understanding Uncertainty Quantification in FWI: Its Value and Impact	Carlos Calderon	GRBCC Room 361B	1:30 p.m.–5:00 p.m.

Field Trips

Learn in an experiential way by participating in one of the IMAGE '25 field trips. Whether it be a study of coastal processes or participating in a hands-on GWB project, you are sure to make life-long connections while you gain new knowledge.

FT#	Title	Leader(s)	Date / Time	Fees
FT-01	Texas Coastal Processes–Brazos River Delta to Galveston Island (SEPM)	Dr. Erik Scott (Rice University & Vecta Oil & Gas)	Saturday, 23 August 8:00 a.m.–6:00 p.m.	Professionals \$325 Students \$150 (limited)
FT-02	Building Resilient Coastal Communities at Matagorda Bay—A Geoscientists without Borders® Initiative (SEG/AAPG)	Brandee Carlson and Shuhab Khan (University of Houston)	Saturday, 23 August 8:00 a.m.–6:00 p.m.	Professionals \$250

Texas Coastal Processes-Brazos River Delta to Galveston Island (SEPM)

Sites ~60 miles south of Houston along ~35 miles of the SE Texas coastline from the Brazos River Delta and along the barrier islands of Follets and Galveston Islands provide locations to observe coastal sedimentological processes and their resultant deposits. The trip will look at the various processes that shape the coastline and the characteristics of the sediments that are deposited. The

beach, recent erosion, various styles of washover deposits, different types of delta systems, and sand ridges.



Building Resilient Coastal Communities at Matagorda Bay—A Geoscientists without Borders® Initiative (SEG/AAPG)

The Texas coast, with valuable recreational, industrial, and ecological resources, faces critical threats from land loss due to subsidence and erosion. Matagorda County, with 36,225 residents, has been heavily impacted by storms and rapid erosion (approx. 1 m/year on the ocean side).

The project is using near surface geophysical methods such as GEM-2 to carry out EM surveys and moored instruments for offshore explorations to aid in habitat management activities.

Field trip participants will have a one-hour introduction to the project at the George R. Brown Convention Center describing the goal and approach of the project, how to take measurements, and logistics for the field work. The attendees will be transported to Matagorda Beach to participate in geophysical data acquisition and demonstrations with moored equipment. Attendees will later return to the convention center to visualize the data acquired and understand from

data is processed to aid in the visualization and guantification of sediment transport and ground water quality. This project addresses UN-SDGs: 4. 6. 11. 14 and 17.

previous engagements how the



See full descriptions and field trip details at IMAGEevent.org/program/field-trips.

Student Events

Sunday, 24 August

SEG/Chevron Student Leadership Symposium (SLS)

Day 1 (By invitation only) Hilton Americas-Houston Ballroom of the Americas A/B/C 10:00 a.m.-6:00 p.m.

Monday, 25 August

SEG/Chevron Student Leadership Symposium (SLS)

Day 2 (By invitation only) Hilton Americas-Houston Ballroom of the Americas A/B/C 8:00 a.m.-3:30 p.m.

Early Career Networking Reception

George R. Brown Convention Center Avenida Balcony, Level 2 6:30 p.m.-8:00 p.m.

Tuesday, 26 August

Early Career Speed Mentoring Marriott Marguis Houston Houston Ballroom 4 3:00 p.m.-5:00 p.m.

AAPG Imperial Barrel Award (IBA) Ceremony

Hilton Americas-Houston Ballroom of the Americas D/E/F 4:30 p.m.-5:00 p.m.

AAPG Imperial Barrel Award (IBA) Reception (By invitation only) Hilton Americas-Houston 3rd Level Pre-Function Area 5:00 p.m.-6:00 p.m.

Wednesday, 27 August

SEG EVOLVE Carbon Solutions & Energy Exploration/SEG Field Camp

George R. Brown Convention Center Room 332 8:00 a.m.-5:00 p.m

Thursday, 28 August

Applied Science Education Program (ASEP) for K-12

George R. Brown Convention Center Room 332 and Exhibition Hall 8:00 a.m.-3:00 p.m.

SEPM Activities at IMAGE

SEPM Research Symposium:	Thursday, 8 :00 a.m.–12:00 p.m.	Room 351A
Mixed Turbidite-Contourite Reservoirs		

SEPM Research Group Meetings

All research group meetings will take place at the George R. Brown Convention Center.

SEPM Carbonate Research Group	Tuesday, 7:00 p.m.–10:00 p.m.	Room 381B
SEPM Sedimentary Petrology Research Group	Tuesday, 7:00 p.m.–10:00 p.m.	Room 381A
SEPM Micropaleontology Research Group — NAMS	Tuesday, 7:00 p.m.–10:00 p.m.	Room 381C
SEPM Deep Water Deposition Research Group	Tuesday, 7:00 p.m.–10:00 p.m.	Room 371AD

SEPM Field Trip and Short Courses

Be sure to check out the trip and courses offered for this meeting. Students should know that there are limited discounted student seats in each course.

Visit SEPM.org for updates

Things to Do in Houston

This is just a sampling of all the things to do in Houston. The city is rich with history, science, fine arts, great cuisine, and endless entertainment. For a complete list go to visithoustontexas.com/things-to-do/.

Space Center Houston

The Official Visitor Center of NASA Johnson Space Center is Houston's No. 1 attraction for international visitors and the first Smithsonian Affiliate in the greater Houston area.

Discover the exciting future and remarkable past of America's human spaceflight program set among the largest collection of space artifacts in the southwestern United States. There is always something new to see and do. With more than 400 space artifacts including flown spacecraft, the largest collection of moon rocks on public display and at multiple major seasonal exhibits a year, Space Center Houston offers an array of exciting attractions for people of all ages.

Houston Museum of Natural Science

As one of the most heavily attended museums in the United States, and one of the most attended venues in Houston, the Museum houses the Burke Baker Planetarium, Wortham GIANT Screen Theatre, Cockrell Butterfly Center and a fascinating variety of permanent exhibit areas that examine astronomy, space science, Native American culture, paleontology, energy, chemistry, gems and minerals, seashells, Texas wildlife and much more.

Blaffer Art Museum

Blaffer Art Museum is a contemporary art museum located on the University of Houston campus. Their vision is to foster engagement and exchange by and among artists, curators, scholars, and the museum's diverse audiences through exhibitions and public programs. It is free and open to the public Wednesday through Sunday.

The Galleria

The Galleria, an international shopping destination that hosts more than 24 million visitors annually, offers world-class shopping with more than 375 stores, 30 restaurants, two hotels, and a full-sized ice rink. The Galleria is home to many upscale boutiques and a who's who list of designers, including Louis Vuitton, Cartier, Chanel, Jimmy Choo, and Ralph Lauren, among many others.

The Holocaust Museum Houston

Charged with educating students and the public about the dangers of prejudice and hatred in society, The Holocaust Museum Houston is dedicated to remembering the 6 million Jews and other innocent victims of the Holocaust and honoring the legacy of the survivors. Using the lessons of the Holocaust and other genocides, they teach the dangers of hatred, prejudice and apathy.

The Health Museum

The Health Museum, an affiliate of the Smithsonian Institution, is a multi-sensory and ever-evolving interactive experience featuring health science advances and the intricacies and implications of how bodies work. The Health Museum offers year-long programs and camps for all ages, special events, corporate rentals and exhibitions including the DeBakey Cell Lab, which puts guests in the center of their own hands-on science exploration.

Moody Center for the Arts

Open and free to the public, the Moody Center for the Arts is dedicated to trans-disciplinary collaboration in the arts, sciences and humanities, and is located on the Rice campus. The Moody Center houses facilities including an art gallery space, a 150-seat black box theater, a gallery for experimental performance and a café. It's open to the public Tuesday through Saturday.

Downtown Aquarium

Part attraction, part restaurant, the 500,000-gallon Downtown Aquarium complex is a multi-functional destination boasting a Ferris wheel, an aquatic carousel, Shark Voyage, a white tiger exhibit and a restaurant. The spectacular wall-to-wall aquarium view complements the surf-and-turf menu. Parents can dig into silky lobster bisque and crabmeat-topped Gulf red snapper, while the little ones nosh on popcorn shrimp, 'sand dollar' pizza and 'Captain's' grilled cheese. During dinner, keep an eye out for scuba divers feeding fish in the restaurant-set tank.

Gathering Place

Connect, Recharge, and Engage — Visit the Gathering Place (Booth #2035)

Take a break from the busy conference floor and stop by the IMAGE Gathering Place, located in Exhibit Hall E. The Gathering Place is a dynamic, multipurpose area where attendees meet, interact, and learn about the industry and AAPG and SEG programs and initiatives.

Representatives from the Program Committees including special interest groups: Women's Network, K-12, DEI/JEDI, Next Gen, Students, Sustainability, and Young Professionals will be on hand to share updates, answer questions, and spotlight new initiatives.

Stop by for a free professional headshot! Whether you need an updated photo for LinkedIn, your company website, or your next conference bio, this is a quick and easy way to elevate your professional presence. No appointment needed — just swing by, smile, and leave with a polished new look.

On display will be an interactive augmented reality sandbox and core samples. Whether you're seeking inspiration, mentorship, or just good conversation, this is the perfect place to unwind - and bring a friend along, too!

Tuesday, 26 August

0.70 10.00	Constitution Constitution
9:30 a.m.–10:00 a.m.	Sustainable Seas Initiative
10:00 a.m11:00 a.m.	Hard Truth: Navigating US Job Market as an
	International Student/Professional
11:00 a.m12:00 p.m.	SEG WNC Meet & Greet + LEGO Giveaway
1:30 p.m2:00 p.m.	K-12 and Community Outreach Resources
2:00 p.m3:00 p.m.	Get to know SEG EPIC & Learn How To Stand
	Out Above the Rest!
3:00 p.m3:30 p.m.	Empowering LACs Next Gen: Impact of SEG
	LARAC YP Mentorship Program
3.30 n m - 4.00 n m	Aligning India's Efforts & SEGs Initiatives with

SDGs to Advance Global Development

Wednesday, 27 August

10:00 a.m.–11:00 a.m.	Powering Through: Careers, Challenges & Intergenerational Insights from Women in Energy
1:30 p.m2:00 p.m.	TBD
2:30 p.m3:00 p.m.	Sound and Marine Life Joint Industry
	Programme (JIP)
3:00 p.m4:00 p.m.	Roleplay: Social Impact in Geoscience: Utilizing ESG for Community and Stakeholder

Engagement

Use the mobile app or Scan the QR code for the full Gathering Place schedule





Work, Connect, and Play at IMAGE

IMAGE isn't just the premier destination for world-class technical content — featuring more than 1,100 presentations and talks — it's also where the energy geoscience community comes together to connect, collaborate, and have some fun. From impromptu hallway chats to structured networking spaces, this is your opportunity to make meaningful connections while exploring the latest science and innovations. Check out some of the standout experiences happening throughout the week:

Society Central – Booth #201

Find Your Community and Fun at Society Central.

Society Central, located just behind the food court near GRBCC Hall D Entry, is your go-to destination for information, support, and connections.

Need help navigating the event? Our friendly staff can walk you through the IMAGE mobile app, provide tech assistance, or help you connect with SEG and AAPG resources. Come say hello—we're here to help you make the most of IMAGE.

Society Central is your one-stop shop for everything related to SEG and AAPG. You can:

- Join the societies: Become a member and connect with other geoscientists
- Learn about vital programs: Discover the latest initiatives and resources
- Support the future of geoscience: Learn how the Foundations of each society help advance the field.

Looking for more than just information?

Society Central is also a place to relax and have some fun. You can take a break from the busy conference floor, play virtual reality games, and take a picture at our selfie station. Share your photos on social media by tagging AAPG, SEG, and IMAGE using #IMAGE25. We look forward to seeing you there!

The Gathering Place - Booth #2035

This central hub is designed for casual conversations, networking, and learning more about key community groups. Stop by and meet with representatives from the Women's Network, Diversity, Equity and Inclusion Committee, Veterans Network, and Young Professionals to discover their latest initiatives. See page 41 for more details.

Pause 4 Paws: Relaxation Dog Park - Booth #1557

Want a minute to decompress? Then stop by Pause 4 Paws to decompress with cuddly rescue dogs from the Houston Humane Society in our Pause 4 Paws



Relaxation Dog Park. Whether you're stopping by for a quick snuggle or considering adoption, this one-of-a-kind experience brings comfort and joy to your IMAGE week.

AAPG | SEG Bookstore - 3rd Level

Located on the 3rd level near the technical sessions, the combined bookstore features must-have titles—from the latest releases to timeless classics in geoscience. Drop in to browse, chat with publication staff, and spin the wheel for a chance to win books, discounts, and swag. It's a great way to take a break and bring home something valuable.

Inside IMAGE Podcast - 3rd Level

Hosted by Andrew Geary

Join us on the 3rd level, near the Geothermal Hub, for live tapings of Inside IMAGE, a special podcast series presented by Seismic Soundoff.



Hear candid

conversations with industry leaders and innovators as they dive into the science, people, and stories behind IMAGE. Don't miss this unique behind-the-scenes perspective on geoscience's most dynamic event, which can be found at imageevent.org/podcast.

Division and Committee Meetings

Sunday, 24 August

SEG Gravity and Magnetics Committee Meeting

Hilton-Americas Houston, Room 335 A/B 5:00 p.m.-6:00 p.m.

Monday, 25 August

AAPG Division of Professional Affairs Annual Meeting

Marriott Marquis Houston, Houston Ballroom 3 1:30 p.m.–3:30 p.m.

SEG Geophysics Editors Meeting

Marriott Marquis Houston, Houston Ballroom 2 3:00 p.m.–4:30 p.m.

Tuesday, 26 August

SEG Near-Surface Geophysics Technical Section Committee Meeting

George R. Brown Convention Center, Exhibit Hall D/E, Near-Surface Pavilion 12:00 p.m.–1:00 p.m.

Wednesday, 27 August

SEG Passive Seismic Committee Meeting

Hilton-Americas Houston, Room 337 6:00 p.m.–7:00 p.m.

AGU/SEG Collaboration Committee Meeting

Marriott Marquis Houston, Montgomery 6:30 p.m.–7:30 p.m.

Thursday, 28 August

SEG Mining and Mineral Exploration Committee Meeting

Marriott Marquis Houston, Montgomery 12:00 p.m.–1:00 p.m.

SEG CO₂ Research Subcommittee Meeting

Marriott Marquis Houston, Fort Bend A 4:00 p.m.–5:00 p.m.

SEG Research Committee Meeting

Marriott Marquis Houston, Fort Bend A 5:00 p.m.–7:00 p.m.

SEG Development and Production Committee Meeting

Marriott Marquis Houston, Montgomery 5:30 p.m.–6:30 p.m.



Technical Program Information

The technical program features over 1,100 high-quality presentations across 292 diverse sessions, including 34 special sessions. Geoscience professionals from all disciplines and regions will share their latest case studies, technological innovations, and research findings. The technical program begins Tuesday at 8:00 a.m. and runs through Thursday at 4:50 p.m. Postconvention workshops will immediately follow, taking place in the technical session area all day Friday.

As part of tradition, 17 postconvention workshops will be offered on Friday, 29 August, including 15 half-day workshops and 2 full-day workshops.

Meet and Greet

Speakers and session chairs are requested to arrive at their session room at least 30 minutes before the session begins to participate. This informal gathering provides an opportunity to meet your session chairs and fellow speakers in advance, ensuring a smooth and well-coordinated session.

Evaluate/Judge Presentations

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

Evaluation questions will appear after the conclusion of the presentation.



IMAGE Events

Posters

The poster program has been expanded for

the second year to include poster sessions on the 3rd floor, alongside the oral presentations. This enhancement allows for more presentations and makes it easier for attendees to view posters aligned with the same themes as the oral sessions and those in the exhibition hall.

There is no fixed presentation time for posters at IMAGE. Poster presenters are asked to remain at their station for the entire session block, including the refreshment break, to engage with attendees and Session Chairs.

Special Sessions

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

- 2024 SEG 4D Forum: From 4D Acquisition to Seismic History Matching
- AAPG Academy 1
- AAPG Academy 2
- Abandoned Mine Lands
- Best of EAGE 2025
- Black Shales to Brines: Unconventional Sources for Critical Elements in the Energy Transition
- Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 1
- Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 2
- Emerging Geoscience Technologies for Geothermal Energy 1
- Emerging Geoscience Technologies for Geothermal Energy 2
- Geologic Hydrogen Exploration 1
- Geologic Hydrogen Exploration 2
- Geophysics for Urban Spaces and Infrastructure 1
- Geophysics for Urban Spaces and Infrastructure 2
- Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 1
- Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 2
- History of Petroleum Geosciences
- Leveraging Technology for Sustainability
- Monitoring of the Near Surface Earth
- Natural Source Electromagnetic for Mining 1
- Natural Source Electromagnetic for Mining 2
- Near Surface Geophysics Applied to Geothermal Resource Exploration and Characterization
- Passive Seismic Rising 1
- Passive Seismic Rising 2
- Pathways to Sustainable Resources
- Recent Advances and the Road Ahead: Hot Topics in Geoscience 1
- Recent Advances and the Road Ahead: Hot Topics in Geoscience 2
- Recommended Practices in Subsurface Assurance
- Road Ahead to Quantum Computing in Geosciences
- SEG/AGU Hydrogeophysics: Innovative Geophysical Approaches to Improve Understanding of Environmental Transformation
- SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 1
- SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 2
- · The Business of Oil and Gas 1
- The Business of Oil and Gas 2



Technical Program Committee

Molly Turko

AAPG Technical Program Co-Chair

Yingcai Zheng

SEG Technical Program Co-Chair

Bunmi Elebiju

SEG Technical Program Vice-Chair

Howard Harper

SEPM Coordinator

Jenny Cole

Staff Liaison

Alan Jones Aleksei Titov Alexandra La Rocca Alexandra Sloan Alexei Bolshakov Alissa Henza Anatoly Baumstein

Andy Hill Ashley Douds Bin Wang Bo Zhang **Buddy Price** Carla Carvajal Catherine Donohue Chad Cummings Chao Wang Charles Sternbach Chengbo Li

Chris Howells Christoph Lehmann Christine Downs Chuck Campbell

Dan R. Glaser

David Duarte David Forand David Johnston David Lankford-Bravo

Divakar Vashisth Doug Weaver

Eduardo Maldonado-Cruz Efemena Emmanuel Elnaz Pezeshki

Erkan Ay

Esteban Fernandez Azparren

Fabián Peña Fernanda Carozzi Franek Hasiuk

Frederico Xavier de Melo

Fuchun Gao Ge Jin Gokay Bozkurt

Haibin Di Hao Hu Henk Kombrink Henry Moore

Imelda Gorman Johnson

Irina Kovalevska James McLeman Jerome Murphy Jiefu Chen Jingxiao Liu Joel Le Calvez Judy Schulenberg Junru Jiao Kristen Busse Kristoffer Walker Kumar Dhananjay Kurang Mehta Laurie Whitesell Lee Slater Lewis Hunter Lianjie Huang Lin Liang

Linda Price Liz Lee Marc Bond Marcin Dukalski Mariana Gherasim Martin Widmaier Matt Silverman

Matthias Imhof

Mayra Lopez Carrasquilla

Melissa Beaman Mengli Zhang Mert Sinan R. Kiraz Michel Verliac Miguel Bosch Mike Forrest Mrinal K. Sen Nadia Fantello Nimisha Vedanti Nizar Chemingui Partha Routh Paul Schwering Peiman Tahmasebi Randall Mackie Rick Beaubouef Robert Merrill Roberto Wagner

Ronny Hofmann Rui Zhang Salah El-Ekhfifi Sayan Mukherjee Sergio Chávez-Pérez

Shangli Ou Shujuan Mao Stephan Gelinsky Susan Nash Tao Zhao Tapan Mukerji Tariq Alkhafilah Teng Long Ting Chen Uzonna Anyiam Vanessa Simoes Vann Smith Vladimir Kazei Vladimir Puzyrev Wendy Liu Xiaolong Wei Xie Yi

Xin Cheng Yaoguo Li Yi Shen Zhehao Li Zhigang Zhang Zhiyong He

Best Presentations at IMAGE '24

Geophysical Technology

Oral Paper Award

Paper Title: Sparse ocean bottom node seismic interferometry and

inversion: A Gulf of Mexico study

Byline: Ivan Lim Chen Ning, Justin Tan, and Ranjan Dash, Chevron

U.S.A. Inc.

Speaker: Ivan Lim Chen Ning

Poster Award

Paper Title: A simple modeling experiment for understanding the impact

of noise on high resolution high density near surface seismic

reflection data

Byline: Ted Stieglitz, Jim Pfeiffer, Juan Ortega and Doug Laymon,

Collier Geophysics

Speaker: Ted Stieglitz

Geological Technology

Oral Paper Award

Paper Title: Fault displacement gradients in mechanically layered rock
Byline: Adam J. Cawood, David A. Ferrill, Kevin J. Smart, Southwest

Research Institute

Speaker: Adam J Cawood

Poster Award

Paper Title: Assessing Carbopol as a mobile-shale analog in the

laboratory: preliminary results under contraction

Byline: Tim P. Dooley, Juan I. Soto, Jacqueline E. Reber, Michael R.

Hudec, Frank J. Peel, Gillian M. Apps, Bureau of Economic

Geology, The University of Texas at Austin

Speaker: Tim Paul Dooley

Regional Themes

Oral Paper Award

Paper Title: Exploration and Production in China of Recently Discovered

Giant-Size Oil and Gas Fields in Precambrian (Archean)

Basement

Byline: Koning Tako, Basement Oil & Gas GeoConsulting (Calgary)

Ltd.

Speaker: Tako Koning

Poster Award

Paper Title: Multidisciplinary iterative approach in characterization of

unconventional reservoirs: a case of study on Vaca Muerta

Formation, Neuquén Basin, Argentina

Byline: M. Aimé Valdez Ávila, Mariana Monti, Leonardo A. Tórtora,

Paula C. Bedini, Ezequiel González, Lara Fernández Kavanagh, Santiago M. Casalá, Juan A. Pineda Álvarez and

Fabian A. Brea, YPF-Tecnología S.A.

Speaker: Maria Aime Valdez Avila

Integrated Themes

Oral Paper Award

Paper Title: Enhancing reservoir characterization through isochore

mapping of geobodies integrated with relative geological

time model

Byline: Alfredo Fernandez, Eliis Inc.; Dylan Wiemer, Diamondback

Energy Inc.; Ryan Banas, PetroRes Consulting; Jorge Peinado,

Independent Consultant

Speaker: Alfredo Fernandez

Poster Award

Paper Title: Seismic impedance inversion via neural networks and linear

optimization algorithm

Byline: Bo Zhang, Yitao Pu, University of Alabama, Department of

Geological Science, Ruiqi Dai, Danping Cao, China University

of Petroleum (East China), College of Geosciences

Speaker: Bo Zhang

Student Session Poster Awards

Paper Title: Characterization of seismic anomalies in Youngil Bay,

Pohang, and its geological implication

Byline: Min Je Lee and Yongchae Cho, Dept. of Energy Systems

Engineering, Seoul National University

Speaker: Min Je Lee

Paper Title: Clinoform evolution and up-dip trapping mechanisms in an

exhumed shelf margin, Upper Cretaceous, Magallanes Basin,

southern Chile

Byline: Thomas G. E. Peploe1,8, M. Poyatos-Moré2, B. W. Romans3, S.

A. D. Kaempfe3, P. R. Nesbit1,4, S. Hage1,5, R. G. Englert1,6, L. P. Bailey1, D. Bell1, P. Ronnau7, L. Stright7, S. M. Hubbard1 (1 – Department of Earth, Energy, and Environment, University of Calgary; 2 - Departament de Geologia, Universitat Autònoma de Barcelona; 3 – Department of Geosciences, Virginia Tech University; 4 - Department of Environmental Sciences, University of San Francisco; 5 - Université Brest, Ifremer, CNRS, Geo Ocean; 6 - Institute of Geoscience, Kiel University; 7 - Warner College of Natural Resources,

Colorado State University; 8 - Chevron Canada Limited)

Speaker: Thomas G. E. Peploe

Paper Title: Origin of dolomite in the Late Devonian upper Three Forks

Formation, Fort Berthold Indian Reservation, Williston Basin,

North Dakota

Byline: Lauren Bettinger, Colorado School of Mines

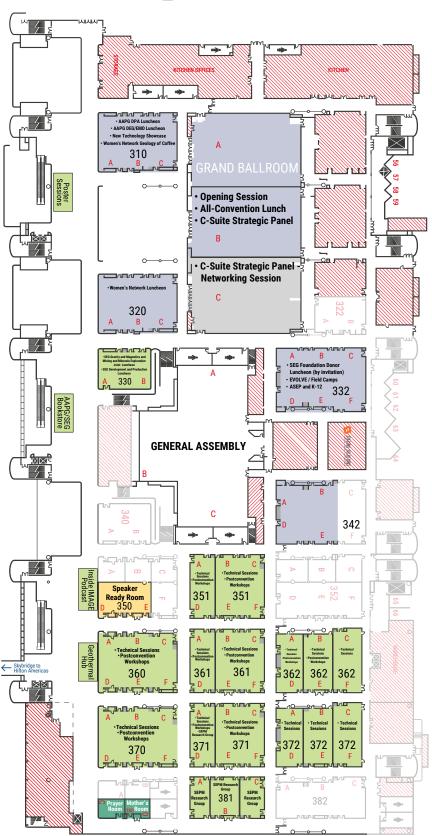
Speaker: Lauren Bettinger

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Technical Program Floor Map



Key to Topic Areas

Exploration and Development (Geographic Regions)

AFR: Africa AP. Asia Pacific

EMME: Eastern Mediterranean/

Middle East

LAC: Latin America and the Caribbean

USC: United States and Canada

Geology

CAEV: Carbonates and Evaporites **GEOPS**: Geochemistry and Petroleum

Systems SILIC: Siliciclastic

STGM: Structure, Tectonics, and Geomechanics

Geophysics

BH:

Anisotropy, AVO, and Seismic

Inversion ACQ: Acquisition Borehole

DAS: Distributed Acoustic Sensing

EM: Electromagnetics FWI: Full-Waveform Inversion GM: Gravity and Magnetics IPS: Induced and Passive Seismic

NS: **Near Surface** RP: **Rock Physics**

Seismic Modeling and Theory SMT:

SP: Seismic Processing TL: Time Lapse

Geosciences

CO2: Low Carbon Solutions/CCS

DMLA: Digitalization, Machine Learning,

and Analytics

GI: Geoscience Innovation INT: Geologic and Geophysical

Interpretation

INTD: Deep Integration of Data and

Disciplines

MME: Mining and Mineral Exploration NEF: New Energy Frontiers, Critical Minerals, and Geothermal

Reservoir Characterization STUD: AAPG, SEG, and SEPM Student

Research

SUS: Sustainability Energy

Development and Environmental

Geoscience

Special Sessions

Special Sessions

Technical Program Grid: Oral Sessions

KEY TO TOPIC AREAS

AAS...... Anisotropy, AVO, and Seismic

Inversion

ACQ..... Acquisition

AFR..... Africa

AP Asia Pacific

BH.....Borehole

BM Basin Modeling

CAEV..... Carbonates and Evaporites

CO2...... Low Carbon Solutions/CCS

DAS...... Distributed Acoustic Sensing

DMLA.... Digitalization, Machine Learning, and

Analytics

EM Electromagnetics

EMME ... Eastern Mediterranean/Middle East

FWI...... Full-Waveform Inversion

GEOPS.. Geochemistry and Petroleum Systems

GI...... Geoscience Innovation

GM...... Gravity and Magnetics

INT Geologic and Geophysical

Interpretation

INTD..... Deep Integration of Data and

Disciplines

...... Induced and Passive Seismic

LAC Latin America and the Carribean

CAEV Carbonates and Evaporities GEOF3 Geochemistry and Petroleum Systems LAC Latin America and the Cambean								
		Tuesday, 2	26 August			Wednesday,		
Room	8:00 a.m9:40 a.m.	10:20 a.m12:00 p.m.	1:20 p.m3:00 p.m.	3:40 p.m5:20 p.m.	8:00 a.m9:40 a.m.	10:20 a.m12:00 p.m.		
351A	GEOPS 1: Tools of the Trade: Machine Learning Applications in Geochemistry	GEOPS 2: All about the Hydrocarbon: Where is it and where it came from	GEOPS 3: Setting the Stage: Source Facies and Paleoenvironment	GEOPS 4: Are you up to date? What's new and what's working	BM 1: Petroleum System Analysis and Modeling	BM 2: Geological Controls		
351B	CAEV 1: Deepwater Carbonates	CAEV 2: Mixed Carbonates and Siliciclastics	CAEV 3: In Memoriam and In Honor 1	CAEV 4: In Memoriam and In Honor 2	CAEV 5: Unconventional Carbonate Systems	CAEV 6: Advancements in Carbonates		
360A	USC 1: Studies of Geologic and Geophysical Processes: Gulf Coast	PANEL 1: Mergers & Acquisition Uncovered: Market Trends, Deal Execution, and Career Paths in Oil & Gas A&D and Private Equitys	SS 10: AAPG Academy 1	SS 14: AAPG Academy 2	TL 1: Full-waveform Inversion and Analysis	SS 22: 2024 SEG 4D Forum: From 4D Acquisition to Seismic History Matching		
361A	SS 1: The Business of Oil and Gas 1	SS 5: The Business of Oil and Gas 2	SS 11: Emerging Geoscience Technologies for Geothermal Energy 1	SS 15: Emerging Geoscience Technologies for Geothermal Energy 2	AFR 1: Africa's Exploration Past and Future Opportunities	AFR 2: African Integrated Geosciences		
361B	SS 2: Passive Seismic Rising 1	SS 6: Passive Seismic Rising 2	USC 2: Studies of Geologic and Geophysical Processes: Permian Basin and Eastern Shelf System 1	USC 3: Studies of Geologic and Geophysical Processes: Pacific Region and Canada	SS 19: Best of EAGE	SS-23: Cryogeophysics: Near-Surface Geophysical Tools to Elucidate the Cryosphere CANCELLED		
362A	STGM 1: Faults, Fractures, and Fluids 1	STGM 2: Faults, Fractures, and Fluids 2	STGM 3: Petroleum System Tectonics and Structural Styles: Lithosphere to Thin Section 1	STGM 4: Geomechanics 1	STGM 5: Faults, Fractures, and Fluids 3	PANEL 2: New Energies and Energy Transition: CCS Economics, Environmental Aspects, and Regulatory Frameworks		
362B	BH 1: Machine Learning Applied to Borehole Data 1	BH 2: Petrophysics and Formation Evaluation	BH 3: Sonic and Signal Processing Techniques	SS 16: Monitoring of the Near Surface Earth	LAC 1: South American Equatorial Margin 2	LAC 2: South Atlantic Offshore 2		
362C	SS 3: Recommended Practices in Subsurface Assurance	SS 7: Near Surface Geophysics Applied to Geothermal Resource Exploration and Characterization	SS 12: Geophysics for Urban Spaces and Infrastructure 1	SS 17: Geophysics for Urban Spaces and Infrastructure 2	SMT 1: Forward Modeling: Wave Equation with Vector-Reflectivity and Beyond	SS 24: Black Shales to Brines: Unconventional Sources for Critical Elements in the Energy Transition		
370A	FWI 1: Theory and Methods 1	FWI 3: Land	FWI 2: Machine Learning 2	FWI 4: Objective Functions and Uncertainty	FWI 5: Elastic and Multiparameter	FWI 6: Case Studies from the Gulf of America		
371A	INTD 1: Seismic Data Integration and Utilization 1	SS 8: History of Petroleum Geosciences	SS 13: Recent Advances and the Road Ahead: Hot Topics in Geoscience 1	SS 18: Recent Advances and the Road Ahead: Hot Topics in Geoscience 2	SS 20: Geologic Hydrogen Exploration 1	SS 25: Geologic Hydrogen Exploration 2		
371B	DAS 1: Full-Scale 3D Vertical Seismic Processing	DAS 2: Theory and Simulation	DAS 3: Surface Seismic and Interferometry	DAS 4: Innovative Applications 1	DAS 5: Innovative Applications 2	SS 26: Road Ahead to Quantum Computing in Geosciences		
372A	EM 1: Modeling and Inversion 1	EM 2: Machine Learning	DMLA 1: Subsurface Model Building	DMLA 2: Surrogate Models and Image Enhancement	SS 21: SEG/AGU Hydrogeophysics: Innovative Geophysical Approaches to Improve Understanding of Environmental Transformation	DMLA 3: Automation and Digitalization		
372B	SP 1 : Surface Multiple Removal	SP 2: Machine Learning in Seismic Data Processing 1	SP 3: Velocity Model Building and Tomography	SP 4: Near Surface Solution and Elastic 2	SP 5: Denoise, and Demultiple	SP 6: Deblending		
372C	SS 4: Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 1	SS 9: Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 2	AAS 1: AVO Inversion 1	AAS 2: Stochastic Seismic Inversion and Analysis	AAS 3: Poststack Seismic Inversion	AAS 4: Anisotropy and Uncertainty		

Challenges 1

Challenges 2

Color Key:

Geoscience

Geophysics

Geology

Regions

Special Sessions

Panel

MME..... Mining and Mineral Exploration NEF...... New Energy Frontiers, Critical Minerals, and Geothermal

NS...... Near Surface RC.....Reservoir Characterization

RP Rock Physics
SILIC Siliciclastic
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

.... Time Lapse

USC United States and Canada

27 August		Thursday, 28 August				
1:20 p.m3:00 p.m.	3:40 p.m5:20 p.m.	8:00 a.m9:40 a.m.	10:20 a.m.–12:00 p.m.	1:20 p.m3:00 p.m.	3:10 p.m4:50 p.m.	
SILIC 1: Deepwater Sedimentary Systems	SILIC 2: Conventional Studies in Sedimentary Processes	SS 31: SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 1	SS 33: SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 2	NEF 1: Characterization of Natural Hydrogen Reservoir	NEF 2: Geothermal and Critical Minerals	
EMME 1: Exploration and Development: Middle East and Europe	EMME 2: Regional Geology of the Middle East	AP 1: Exploration Frontiers	AP 2: Regional Studies and Technology	AP 3: China Case Studies and Technology 3	AP 4: China Case Studies and Technology 4	
SS 27: Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 1	SS 29: Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 2	TL 2: 4D Seismic Acquisition and Processing 2	TL 3: Analysis using Machine Learning 2	TL 4: Case Studies 2	TL 5: Inversion and Quantitative Interpretation	
NS 1: Advances in Near Surface Seismic Applications	NS 2: Near Surface Electrical and Electromagnetics	GI 1: Case Studies 2	GI 2: Case Studies 3	SMT 2: Seismic Imaging: Novel Approaches	SMT 3: Seismic Inversion	
ACQ 1: Marine Ocean Bottom Nodes 2	ACQ 2: Innovation in Source and Sensors	ACQ 3: Survey Design and Compressive Sensing 2	ACQ 4: Land Seismic Challenges and Opportunities 2	ACQ 5: Time Lapse and 4D Acquisition		
SS 28: Leveraging Technology for Sustainability	SS 30: Pathways to Sustainable Resources	CO2 1: Monitoring	CO2 2: Reservoir Characterization	CO2 3: Modeling	CO2 4: Screening	
LAC 3: Frontier Basins 2	LAC 4: Mexican Basins	USC 4: Studies of Geologic and Geophysical Processes: Gulf of Mexico 1	USC 5: Studies of Geologic and Geophysical Processes: Gulf of Mexico 2	MME 1: Mineral Prospectivity Mapping and Data Processing	MME 2: Modeling and Drilling for Mineral Exploration	
RC 1: Geomodelling	RC 2: Applications 2	IPS 1: Hydraulically-induced Fracture Network Monitoring	IPS 2: Induced Seismicity: Fault Monitoring 1	IPS 3: Induced Seismicity: Fault Monitoring 2	IPS 4: Induced Seismicity and New Energies	
FWI 7: Case Studies 3	FWI 8: Imaging	FWI 9: Novel Approaches and Workflows 2	FWI 10: Novel Approaches and Workflows 3	FWI 11: Machine Learning 4	FWI 12: Land, Marine Streamer, and OBS	
GM 1: Inversion and Artificial Intelligence in Potential Fields	GM 2: Interpretation and Case Studies	INT 1: Machine Learning in Assisting Geological Interpretation	INT 2: Machine learning in Assisting Reservoir Characterization	INT 3: Interpretation Methods 2		
RP 1: Honoring Amos Nur	RP 2: Application	RP 3: Digital Rock	RP 4: Elasticity and Poroelasticity	RP 5: Recent Advancements	RP 6: Machine Learning Application	
DMLA 4: Generative and Foundation Models 2	DMLA 5: Seismic Interpretation 2	DMLA 6: Reservoir and Petrophysical Analysis 2	SP 10: Enhancement with Machine Learning	SP 12: Machine Learning Priors, Projection and Attribute Prediction	SP 14: Machine Learning Applications 2	
SP 7: Imaging Signal Enhancement	SP 8: Seismic Data Interpolation and Reconstruction	SP 9: Novel Solutions and Emerging Technologies	SP 11: Acoustic, Elastic and Least-Squares Imaging	SP 13: Case Studies on Node Data	SP 15: Case Studies 3	
AAS 5: Machine Learning 1	AAS 6: Machine Learning 2	SS 32: Natural Source Electromagnetic for Mining 1	SS 34: Natural Source Electromagnetic for Mining 2	SS 35: Abandoned Mine Lands	NS 3: Void Detection in Near Surface Geophysics	

Technical Program Grid: Poster Sessions

	5		Tuesday,	26 August			Wednesday,
	LOCATION	10:20 a.m12:00 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.	10:20 a.m.–12:00 p.m.
		A, B, C, D	E, F, G, H	A, B, C, D	E, F, G, H	A, B, C, D	E, F, G, H
占	1		ACQ P1: Marine Ocean Bottom Nodes 1	ACQ P3: Onshore Exploration and Seismic	ACQ P5: Acquisition Technology and Hardware		SMT P1: Seismic Applications, Tomography, Geological Interpretation, and Stratigraphy
IT HA	2		ACQ P2: Land Seismic Challenges and Opportunities 1	ACQ P4: Survey Design and Compressive Sensing 1	STUD P2: Seismic Imaging and Analysis		SMT P2: Reverse Time Migration, Multiple Imaging, and Elastic Imaging and Model-building
EXHIBIT HALL	3		SP P1: Multiple Removal Techniques	SP P3: Seismic Data Interpolation, Regularization and Deblending	SP P5: Elastic Data		BH P1: Seismic
"	4		SP P2: Machine Learning in Seismic Data Processing 2	SP P4: Near Surface Solution and Elastic 1	SP P6: Beam Migration and Elastic RTM		SP P7: Complex and Diffraction Imaging
	5		FWI P1: Applications	FWI P3: Case Studies 1	FWI P5: Theory and Methods 2		SP P8: Imaging Enhancement
	6	TL P1: 4D Seismic Acquisition and Processing 1	FWI P2: Machine Learning 1	FWI P4: Case Studies 2	FWI P6: Machine Learning 3	FWI P7: Novel Approaches and Workflows 1	TL P2: Analysis using Machine Learning 1
L	7		NS P1: Infrastructure	NS P2: Noise and Uncertainty in Near Surface Seismic Analysis	STUD P3: Innovations in Geophysical Methods	NS P3: Fiberoptic Sensing	NS P4: Hydrogeophysical Applications
	<u> </u>	Tuesday, 26 August			Wednesday,		
	LOCATION	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.
	1	LAC P1: South American Equatorial Margin 1	LAC P2: South Atlantic Offshore 1	LAC P3: Frontier Basins 1	EMME P1: Eastern Mediterranean, Middle East, Europe, and Caspian Region	GEOPS P1: From the Lab to the Project: Applying Data to Solve Problems	GEOPS P3: Petroleum System Applications for Exploration
್ಟ	2	AFR P1: Subsurface Interpretation, Modeling and Prediction in West African Basins	AP P1: China Case Studies and Technology 1	AP P2: China Case Studies and Technology 2	GI P1: Case Studies 1	GEOPS P2: From Details to Big Picture	SILIC P1: Advanced Techniques in Sedimentary System Analysis
3rd LEVEL	3	GM P1: Inversion and Processing in Potential Fields	GM P2: Applications in Potential Fields Processing and Interpretation	STUD P1: Integrated Geology and Geophysics Studies	INTD P1: Seismic Data Integration and Utilization 2	USC P1: Studies of Geologic and Geophysical Processes: Permian Basin and Eastern Shelf System 2	STGM P1: Faults, Fractures, and Fluids 4
M	4	RP P1: CCS and Storage	INT P1: Case Study on Machine Learning for Geological Interpretation	INT P3: Interpretation Methods 1	INT P6: Geologic Stories	USC P2: Studies of Geologic and Geophysical Processes: North America	STGM P2: Petroleum System Tectonics and Structural Styles: Lithosphere to Thin Section 2
	5	RP P2: Measurements and Poroelasticity	INT P2: Interpretation Case Study	INT P4: Seismic Attributes	INT P7: New Exploration Aspects	RC P1: Geomorphology	RC P3: Applications in Carbonates
	6	DMLA P1: Non-Seismic Geophysical Data Analysis	DMLA P3: Generative and Foundation Models 1	INT P5: Integrated Geological Interpretation		RC P2: Applications 1	RP P3: Machine Learning and Digital Rock Applications
	7	DMLA P2: Facies and Reservoir Property Analysis	DMLA P4: Reservoir and Petrophysical Analysis 1	EM P1: Case Studies and Reservoir Surveillance	EM P2: Modeling and Inversion 2	DMLA P5: Seismic Interpretation 1	RP P4: Modeling and Applications

27 August		Thursday, 28 August		
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.
A, B, C, D	E, F, G, H	A, B, C, D	E, F, G, H	A, B, C, D
SMT P3: Frequency Domain	SMT P5: Miscellaneous Topics in Seismic Exploration	NS P7: Seismic Applications 1		
SMT P4: Seismic Modeling in Different Media	BH P3: Advances in Borehole Data Processing and Modeling 2	NS P8: Seismic Applications 2	NS P9: Environmental Geophysics	NS P10: Voids and Seismic
BH P2: Advances in Borehole Data Processing and Modeling 1	BH P4: Machine Learning Applied to Borehole Data 2	SP P13: Emerging Technologies		
SP P9: Machine Learning Applications 1	SP P11: Case Studies 1	FWI P8: VSP, Multiphysics, and Reservoir Characterization	FWI P9: Cycle-skipping	FWI P10: Elastic
SP P10: Machine Learning Technology	SP P12: Case Studies 2	AAS P1: Case Study	AAS P3: AVO Inversion 2	AAS P6: Reservoir Property Estimation
TL P3: Case Studies 1	TL P4: 4D Seismic Inversion and Quantitative Interpretation	AAS P2: Anisotropy	AAS P4: Machine Learning 3	AAS P7: CO2 and Methane Study
NS P5: General Contributions	NS P6: Seismic Velocity Modeling		AAS P5: Machine Learning 4	
27 August		Thursday, 28 August		

1:20 p.m.–3:00 p.m.	3:40 p.m.–5:20 p.m.	8:00 a.m9:40 a.m.	10:20 a.m.–12:00 p.m.
CAEV P1: Porosity and Permeability	CAEV P4: Carbonate Diagenesis	MME P1: Advanced Modeling for Exploration	MME P2: Exploration Methods and Studies
CAEV P2: Outcrop, Seismic, and Modern Analogues 1	CAEV P5: Outcrop, Seismic, and Modern Analogues 2	CO2 P1: Reservoir Characterization	CO2 P2: Modeling, Monitoring, and Screening
CAEV P3: Mixed Carbonate and Siliciclastic Systems	IPS P1: New Energies and Hydraulic Fracture Monitoring	NEF P1: Geothermal Energy	NEF P3: Geologic Hydrogen 1
STGM P3: Geomechanics 2	IPS P2: Ambient Field Methods	NEF P2: Energy Transition	NEF P4: Geologic Hydrogen 2
BM P1: Modeling Fluids Systems	IPS P3: Induced Seismicity and Fault Monitoring	SUS P1: Advances in Sustainable Geo-energy Development	STUD P6: Energy, Carbon Sequestration, and Geology
BM P2: Seismic Stratigraphy, CO2 and Geothermal	STUD P4: Outcrop-Based Study	STUD P5: Seismic Monitoring for CO2 Storage	STUD P7: Provenance, Climate, and Tectonics
DAS P1: Modeling and Processing	DAS P2: Near Surface and Engineering	DAS P3: Low Carbon Solutions	DAS P4: Long-Term Monitoring





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Tuesday, 26 August

BH 1 Machine Learning Applied to Borehole Data 1

Session Chairs: Vanessa Simoes and Chicheng Xu

Location: 362B

- 8:00 AM.....A Deep Learning Based Baseline Framework for Automated Stratigraphic Boundary Detection and Well Correlation
 Transferable Across Basins: M. Nasim¹, P. N. Roy¹, A. Mitra¹, T. Maiti² (1. Indian Institute of Technology, Kharagpur; 2. Deepkapha Al Research Lab) Speaker: M Quamer Nasim
- 8:25 AM.....Automatic textures segmentation in acoustic image logs based on Deep Learning techniques: M. d. Martins, J. Silva, J. Campos, G. Pinto, L. Leite, R. Ancelme, I. Silva (PETREC) Speaker: Marcio Martins
- 8:50 AM.....Logging Lithology Classification via Active Learning and
 Domain Adaptation-LSTM: W. Jin¹, H. Cai¹, W. Wang²,
 R. Tang², J. Liang¹, G. Zhang¹ (1. University of Electronic
 Science and Technology of China; 2. Exploration and
 Development Research Institute, PetroChina Southwest Oil &
 Gasfield Company) Speaker: Guanlei Zhang
- 9:15 AM.....DeepSWIrr: Predicting Irreducible Water Saturation from Nuclear Magnetic Resonance data using Neural Networks:

 B. Fraga¹, B. Coutinho³, C. de Bom² (1. Centro Brasileiro de Pesquisas Físicas; 2. CBPF; 3. Petrobras) Speaker: Bernardo Fraga

CAEV 1 Deepwater Carbonates

Session Chairs: Buddy Price and Rachel Williams

Location: 351B

- 8:00 AM.....Lower Mississippian carbonate-drift deposits beyond the clinothems and along 1500 km of the southern margin of North America (Laurussia): C. R. Handford (Independent) Speaker: C. Handford
- 8:25 AM.....Mississippian Outer Ramp and Basinal Deposits in the Sacramento Mountains, Bishop Cap and Northern Franklin Mountains: Mounds, Drifts and Turbidites: X. Janson¹, B. Price², J. Syzdek¹, J. R. Malone¹ (1. University of Texas at Austin; 2. Devon) Speaker: Xavier Janson
- 8:50 AM..... Dolomitization below the seafloor within deepwater drift and platform margin deposits in the Maldives Archipelago:

 J. Laya¹, D. Budd², C. Jacquemyn³, C. Manche¹, K. Prince¹ (1. Texas A&M University; 2. University of Colorado; 3. Imperial College London) Speaker: Juan Carlos Laya
- 9:15 AM.....Sedimentological and stratigraphic architecture of a prograding Pennsylvanian mud-dominated carbonate slope: Examples from the Bird Spring Formation, Marble Canyon, Death Valley, USA: J. R. Malone¹, X. Janson¹, B. Price² (1. University of Texas at Austin; 2. Devon) Speaker: Joshua Malone

DAS 1 Full-Scale 3D Vertical Seismic Processing

Session Chairs: Vladimir Kazei and Albena Mateeva

Location: 371B

- 8:00 AM.....3D DAS-VSP data acquisition, processing and integrated interpretation in Junggar Basin: G. Yu¹, S. Zhang², H. Chen¹, S. An³, Z. Cai³, B. Liu³, M. Xiao³, J. Wu³, Y. Chen³, Y. Wang³, Z. Cao¹ (1. BGP; 2. CNPC; 3. Optical Science and Technology (Chengdu) Ltd.) Speaker: Gang Yu
- 8:25 AM.....Time-lapse wireline DAS-VSP field experiment using an existing onshore well in Japan: T. Nibe¹, T. Miura¹, Y. Imai¹, K. Yoshioka¹, M. Katou², M. Higashinaka², T. Nagata³, S.

- Sugawara⁴, T. K. Lim⁴ (1. JAPEX; 2. JGI; 3. GSC; 4. GEOSYS) Speaker: Takao Nibe
- 8:50 AM.....Integrated 3D DAS-VSP workflows for enhanced shallow imaging and drilling hazard mitigation in Abu Dhabi offshore carbonate reservoirs: Y. Hong, G. Cambois, S. A. Al Mesaabi, M. Mahgoub, A. Al Neyadi, J. E. Mason (ADNOC) Speaker: Saif Al Mesaabi
- 9:15 AM.....Insights from DAS VSP converted wave imaging in complex carbonate geological settings: R. Alai¹, A. Ghazali¹, F. Ghazali¹, M. Pua¹, E. B. Kamarudin¹, M. Preston², S. Dong², G. Zhan², F. Liu², R. Collings², S. Shaw³, O. A. Barrios³ (1. PETRONAS; 2. TGS; 3. Halliburton) Speaker: Riaz Alai

EM 1 Modeling and Inversion 1

Session Chairs: Jiefu Chen and Kyubo Noh

Location: 372A

- 8:00 AM.....Quantifying the effects of TTI in multiphysics analysis of electromagnetic data offshore Malaysia: R. Mackie¹, L. MacGregor², A. S. Saleh², J. Kho² (1. Viridien; 2. Petronas) Speaker: Randall Mackie
- 8:25 AM.....Time-lapse electromagnetic methods for monitoring plume development in a carbon storage reservoir: K. MacLennan¹, T. L. Richards¹, T. Pugh², J. Chen², B. A. Kurz¹ (1. University of North Dakota; 2. ESG Solutions) Speaker: Trevor Richards
- 8:50 AM.....Industry-First 3D Horizontal Look Ahead Mapping UDAR for Advanced Warning of Major Dip Changes Ahead of the Bit:

 N. Suarez Arcano¹, N. Clegg¹, J. Ma¹, C. Sarquez¹, G. Tosi¹,
 E. Romsås Fjedlberg² (1. Halliburton; 2. AkerBP) Speaker:
 Nelson Suarez Arcano
- 9:15 AM.....3D Inversion of Semi Airborne CSEM Data at the Kemper CarbonSAFE Site in Mississippi: N. Perkovich (Colorado School of Mines) Speaker: Noah Perkovich

FWI 1 Theory and Methods 1

Session Chairs: Arnab Dhara and Guanghui Huang

Location: 370A

- 8:00 AM.....Gas hydrates estimated by Biot-poroelastic full-waveform inversion: Y. Liu, H. Wang, T. Yan, Z. Zhang (Chinese Academy of Sciences) Speaker: Yike Liu
- 8:25 AM.....One-Way Waveform Inversion (OWI): Efficient Deep Imaging in Complex Salt Environments: A. Benhassine¹, R. Baina¹, M. Appé², B. Duquet² (1. OPERA; 2. TotalEnergies) Speaker: Aimen Benhassine
- 8:50 AM.....Elastodynamic modeling and inversion with reflectivity terms: C. Macesanu, G. Huang, F. Liu, J. Ramos-Martinez, D. Whitmore (TGS) Speaker: Cosmin Macesanu
- 9:15 AM.....Accelerating anisotropic elastic subsurface imaging with dual-pair finite differences: M. Irakarama, S. Luo, J. Etgen, X. Shen, M. O'Brien (bp) Speaker: Modeste Irakarama

GEOPS 1 Tools of the Trade: Machine Learning Applications in Geochemistry

Session Chairs: Jagos Radovic and Carl Symcox

Location: 351A

8:00 AM.....Peripheral vision: Using machine learning to identify unusual source facies along the periphery of a world-class marine source rock basin. Examples from the North Sea: D. Gardiner¹, D. Cornford¹, C. Cavalli², A. Przybylo², M. Ahlborn²,



Tuesday, 26 August

- J. Dziegielowski² (1. IGI Ltd.; 2. ORLEN Upstream Norway AS) Speaker: David Gardiner
- 8:25 AM.....Isotope-Maturity-Gas to Oil Ratio (iRo-GOR) templates and applications: S. Wu¹, A. Sneddon², J. Hu³ (1. Power Energy and Environmental Research Institute; 2. MidCon Well Logging Inc.; 3. Chinese Institute of Coal Science) Speaker: Sheng Wu
- 8:50 AM..... Organic facies identification in sulfur-rich kerogens of the Monterey Formation: Random forest-based feature selection and kinetic analysis: A. Vielma, J. Curiale, J. R. Radović (University of Houston) Speaker: Ana Vielma
- 9:15 AM.....Enhancing resolution of geochemical fingerprinting
 by significant parameters selection for reservoir
 compartmentalization evaluation using unsupervised
 machine learning: C. Sandu, A. Silver, P. Srinivasan (Aramco
 Americas) Speaker: Constantin Sandu

INTD 1 Seismic Data Integration and Utilization 1

Session Chairs: Mike Cogan and Joe Zuech

Location: 371A

- 8:00 AM.....Overcoming challenges imposed by the characterization of sandy channelized reservoirs through elastic property estimation: L. B. de Oliveira¹, A. Nascimento¹, A. Maul¹, w. souza-lima², P. Lopes Brandão Paraizo¹, O. Chaves¹, L. Kubota¹ (1. Petrobras S.A.; 2. UFS) Speaker: Leonardo de Oliveira
- 8:25 AM.....Production Forecast for Major Unconventional Reservoirs in Wyoming: A Focus on the Mowry Shale: M. Lakjaa, T. Considine (School of Energy Resources- University of Wyoming) Speaker: Maryam Lakjaa
- 8:50 AM.....Advancing Energy Sustainability with Data-Driven Software
 License Management: E. Fosli, M. L. Maano (Open iT, Inc.)
 Speaker: Eistein Fosli
- 9:15 AM.....From Source to Sink: Multi-Domain Analysis of CO₂

 Capture, Transport, and Storage in Global Contexts: P.

 Saraswat (Querent AI LLC) Speaker: Puneet Saraswat

SP 1 Surface Multiple Removal

Session Chairs: Imtiaz Ahmed and Daniele Boiero

Location: 372B

- 8:00 AM.....Broadband high-frequency multiple attenuation using curvelet mask upscaling: Z. Yan (SLB) Speaker: Zhimei Yan
- 8:25 AM.....Feasible up/down deconvolution implementation for streamer data: T. Bai, D. Boiero, M. Vassallo (SLB) Speaker: Tong Bai
- 8:50 AM.....A time-domain implementation of Multidimensional Deconvolution: P. Terenghi, A. Jafargandomi, I. Vasconcelos, I. Gregory, J. Holden (Shearwater) Speaker: Paolo Terenghi
- 9:15 AM.....Shallow-water ocean-bottom node demultiple using joint wavefield extrapolation multiple modeling and surface-related multiple elimination with subtraction in the curvelet domain: H. Yao¹, A. Elsabaa¹, F. Xavier De Melo¹, D. Desta¹, C. Tapia², N. Hicks², M. Bishop² (1. SLB; 2. Arena Energy) Speaker: Heather Yao

SS 1 The Business of Oil and Gas 1

Session Chairs: Susan Nash and Judy Schulenberg

Location: 361A

- 8:00 AM.....Geospatial Characterization of Thermal Heating and Cooling Demand in Texas: Role of Geothermal Energy: S. Bhattacharya¹, P. Garg¹, S. S. Nash² (1. The University of Texas at Austin, United States; 2. AAPG) Speaker: Shuvajit Bhattacharya
- 8:25 AM.....Monetary pivot points in the history of the US dollar, their effects on oil prices, and the coming pivot: W. DeMis (Rochelle Court, LLC) Speaker: William DeMis
- 8:50 AM.....Effective joint venture influencing: A strategic approach:

 A. Olivera-Riley¹, J. Farrelly², C. Howes¹, m. jamieson¹
 (1. Subsurface Consultants & Associates; 2. Prudentia
 Geoscience LLC) Speaker: Amalia Olivera-Riley
- 9:15 AM.....Teaching Rocks to Speak: The Promise of Large Geologic

 Models and Generative AI: A. Davidoff (A.J. Davidoff LLC)

 Speaker: Andrew Davidoff

SS 2 Passive Seismic Rising 1

Session Chairs: Shujuan Mao and Fabian Pena

Location: 361B

- 8:00 AM.....Investigating tectonic, magmatic, and hydrothermal microearthquakes in the Three Sisters Volcanic Complex with machine learning and a dense nodal array: Y. Zhou¹, B. Schmandt¹, A. Peña Castro², B. Herr¹ (1. Rice University; 2. Department of Earth and Planetary Sciences, University of New Mexico) Speaker: Yangtianli Zhou
- 8:25 AM.....Passive Borehole Imaging with DAS Ambient Noise: A New Frontier in Subsurface Monitoring: L. Huang¹, D. Li¹, Y. Li², Y. Zheng³ (1. Los Alamos National Laboratory; 2. BlueSkyDas LLC; 3. University of Houston) Speaker: Lianjie Huang
- 8:50 AM.....Hydraulic Stimulation Strategies to Improve Estimated
 Ultimate Recovery of Hydrocarbons: J. P. McKenna
 (MicroSeismic, Inc) Speaker: Jonathan McKenna
- 9:15 AM.....**Shale fracturing state evaluation technology based on acoustic emission signal:** X. Hao, B. Wei, G. Zhao, J.
 Zhang, F. HE (Research and Development Center, Sinopec Geophysical Corp.) Speaker: Xiaomin Hao

SS 3 Recommended Practices in Subsurface Assurance

Session Chairs: Christopher Hare and Eric Kubera

Location: 362C

- 8:00 AM.....Assurance and prospect assessment: The human factor:

 J. Irvin (Rose Subsurface Assessment) Speaker: Juliet Irvin
- 8:25 AM.....Assessing prospective resource uncertainty: The hidden cost of optimistic bias: L. A. Costa, L. S. Soares (Petrobras) Speaker: Luciano Costa
- 8:50 AM.....Transformation of geologic to commercial chance and volume: D. Weaver (Rose Subsurface Assessment)

 Speaker: Douglas Weaver
- 9:15 AM.....**A practical data-driven approach for depth uncertainty estimation:** H. Liu, J. Chen, Y. Luo, R. Mongan, M. Yang,
 S. Deng, K. Fu, F. Chen, W. Fei, Y. Tan (Chevron U.S.A Inc.)
 Speaker: Huafeng Liu

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SS 4 Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 1

Session Chairs: Cengiz Esmersoy and Robert Merrill

Location: 372C

- 8:00 AM.....Integrated Monitoring of Barrier Island Change on the
 Upper Texas Coast: Linking Subsurface Hydrology to
 Coastal Sediment Transport: B. Carlson¹, J. Sun², S. D.
 Khan³ (1. University of Houston; 2. University of Houston; 3.
 University of Houston) Speaker: Brandee Carlson
- 8:25 AM.....Contribution of GWB Stations to Seismic Monitoring in Guatemala: Analysis of 2023 and 2024: D. Barral¹, B. Cosenza-Muralles³, S. L. Roche² (1. Instituto Nacional de Sismología, Vulcanología, Meteorología e Hidrología -INSIVUMEH-; 2. Geophysical Consultant; 3. Escuela de Ciencias Físicas y Matemáticas, Universidad de San Carlos de Guatemala) Speaker: David Barral
- 8:50 AM.....Groundwater Prospectivity Mapping in part of
 Northwestern Nigeria using an Integration of Remote
 Sensing and Electrical Resistivity Techniques: J. O.
 Osumeje¹, D. Eshimiakhe¹, K. M. Lawal², A. S. Oniku³
 (1. Ahmadu Bello University, Nigeria; 2. National Open
 University of Nigeria; 3. Modibbo Adama University of
 Technology) Speaker: Joseph Osumeje

STGM 1 Faults, Fractures, and Fluids 1

Session Chairs: Nahid Hasan and Alissa Henza

Location: 362A

- 8:00 AM.....Application of improved Swin-Transformer model in fault identification: L. Li, C. Xu, W. Xiong, X. Zhang, S. Yuan, H. Zhao (BGP, CNPC) Speaker: Lei Li
- 8:25 AM.....Geometric and kinematic characterization of faults in the Saltpond Basin of Ghana: Implications for fluid migration and reservoir integrity: P. Atubrah, A. Quansah, V. Hotor (Ghana National Petroleum Corporation) Speaker: Prince Atubrah
- 8:50 AM.....Enhancing CNN-based fault detection in seismic data using Hough transform-based geometrical filtering: Application to Opunake dataset: S. Ben Brahim¹, R. Baillet¹, T. Gardashli² (1. Beicip Franlab; 2. Beicip Franlab (Non-Author)) Speaker: Turqay Gardashli
- 9:15 AM.....Empirical rules for volumetric QC and modelling of fault populations: J. Solum, P. Zarian (Shell International E&P, Inc.) Speaker: John Solum

USC 1 Studies of Geologic and Geophysical Processes: Gulf Coast

Session Chairs: David Lankford-Bravo and Scott Singleton

Location: 360A

- 8:00 AM.....Onshore Texas Salt Domes in the Houston/Beaumont/
 Galveston Area are Ripe for Oil and Gas Revitalization: How
 to Detect Undrilled Salt Overhangs and Find New Reserves
 Using Depth Migrated Seismic: L. R. Sternbach (Star Creek
 Energy) Speaker: Linda Sternbach
- 8:25 AM..... A Gulf of Mexico refill paleocanyon in Belize?: S. Cossey¹, J. H. Rosenfeld² (1. Cossey and Associates Inc; 2. retired) Speaker: Stephen Cossey
- 8:50 AM.....Organic Matter Preservation Under Alternating Suboxic— Anoxic Bottom Waters in the Proximal Eagle Ford Sea: R. A.

- Denne¹, J. Birdwell², K. L. French² (1. University of Texas; 2. U.S. Geological Survey) Speaker: Richard Denne
- 9:15 AM.....High resolution diffraction imaging applied to a karst reservoir in a South Texas Field: S. P. Singh, D. Dopkin, Z. Koren (Aspentech) Speaker: Shiv Singh

BH 2 Petrophysics and Formation Evaluation

Session Chairs: Mayank Malik and Arpana Sarkar

Location: 362B

- 10:20 AM...Quantitative Estimation of Bulk Thermal Conductivity in Geothermal Energy Systems: H. Wang, J. Dirkzwager, J. Nunn, J. Burger, T. Chaturvedi, S. Jones (Chevron U.S.A. Inc.) Speaker: Haijing Wang
- 10:45 AM...Saturation modeling of ultra-shallow gas reservoirs in deep-water marine environments: Experimental exploration and field applications: Z. Peng, Z. Wei, S. Deng, C. Wu (National Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China)) Speaker: Zhoutuo Wei
- 11:10 AM ...Bright spot in borehole acoustic reflection imaging:
 Theoretical modeling and field application: X. Tang, W.
 Wang, H. Wang, K. Zheng (China university of Petroleum)
 Speaker: Xiaoming Tang
- 11:35 AM ...Optimizing Volume of Investigation for Reliable

 Assessment of Petrophysical Heterogeneity in the Welllog Domain: P. Sahu, Z. Heidari (The University of Texas at
 Austin) Speaker: Pallavi Sahu

CAEV 2 Mixed Carbonates and Siliciclastics

Session Chairs: Tiffany Legg and William Morgan

Location: 351B

- 10:20 AM...Feedbacks in carbonate-siliciclastic sediment routing in the hyperarid Gulf of Aqaba, Red Sea: B. Rendall¹, S. J. Purkis², W. Altyeb¹, M. Mutti¹ (1. University of Potsdam; 2. University of Miami) Speaker: Ben Rendall
- 10:45 AM...Architecture and Sequence Stratigraphy of Mixed Carbonate-Siliciclastic Toe-of-Slope Systems: Examples from the Upper Permian Bell Canyon Members of the Guadalupe Mountains, West Texas: T. Playton¹, J. A. Bellian³, C. Kerans², D. Katz⁴ (1. Chevron; 2. UT Austin-BEG; 3. Ovintiv; 4. OVV) Speaker: Ted Playton
- 11:10 AM ...Constraining fracture stratigraphy in grain-rich mixed carbonate slope deposits for subsurface applications: R. A. Williams¹, M. Ibagarov¹, Z. Jobe¹, T. Playton², P. Plink-Bjorklund¹, L. J. Wood¹, E. Earnest² (1. Colorado School of Mines; 2. Chevron) Speaker: Rachel Williams
- 11:35 AM ...Refining models for mixed carbonate-siliciclastic systems for application to a heterogeneous ramp in an icehouse world: Pennsylvanian Upper Strawn Group of the Eastern Shelf of the Permian Basin: K. Hattori, P. P. Flaig (University of Texas at Austin) Speaker: Kelly Hattori

DAS 2 Theory and Simulation

Session Chairs: Bin Luo and Baishali Roy

Location: 371B

- 10:20 AM...**Neural Operator-Assisted FWI of Dual-Well DAS on Tubing:**V. Kazei¹, H. Liang¹, N. Alzamil², A. AlDawood² (1. Aramco Americas; 2. Saudi Aramco) Speaker: Vladimir Kazei
- 10:45 AM...Radiation and diffraction pattern analyses on accelerometer-DAS multicomponent data amplitudes with



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- **VSP geometries:** W. Zhou¹, X. Liu¹, X. Cai² (1. KFUPM; 2. University of Calgary) Speaker: Xiaohui Cai
- 11:10 AM ... Evaluation of dark fiber surface distributed acoustic sensing compared with ocean bottom node measurements in deep-water Gulf of America: A. Sayed¹, S. Riseman¹, N. Cockrell¹, R. Bachrach¹, Z. T. Jackson¹, M. Sourial¹, R. Dash², Y. Tian², I. Lim Chen Ning², S. Oppert², K. Zhang² (1. SLB; 2. Chevron U.S.A. Inc.) Speaker: Ali Sayed
- 11:35 AM...**No-compromise 3D finite-element modeling of borehole DAS data:** A. Bakulin, J. Badger, S. Fomel (University of Texas at Austin) Speaker: Jacob Badger

EM 2 Machine Learning

Session Chairs: Adel El-Emam and Vladimir Puzyrev

Location: 372A

- 10:20 AM...Inverting Airborne Time-Domain Electromagnetic Data using a Conditional Variational Autoencoder: S. F. Hirsch, Y. Li (Colorado School of Mines) Speaker: Sara Hirsch
- 10:45 AM...Physics-informed neural network for magnetotelluric inversion: Y. Li, W. Lu, C. Song (Tsinghua University)

 Speaker: Yinshuo Li
- 11:10 AM ...Comparative analysis of LSTM, transformer, and hybrid LSTM-transformer models for logging-while-drilling inversion: Z. Wang¹, J. Lu¹, H. Wang², J. Zheng¹ (1. University of Houston; 2. Chevron) Speaker: Jianfeng Zheng
- 11:35 AM ...An unsupervised deep learning approach to geophysical Bayesian inversion using normalizing flows: S. Wu, J. Sun, J. Chen (University of Houston) Speaker: Sihong Wu

FWI 3 Land

Session Chairs: Zongcai Feng and Gary Hampson

Location: 370A

- 10:20 AM...High-resolution land seismic imaging via elastic multiparameter FWI: C. Martinez¹, J. McLeman¹, M. Phillips¹, V. Avramovic¹, T. Rayment¹, S. Schmitt¹, M. Varner¹, F. Mancini¹, A. Chahine², O. Al Mamari² (1. DUG Technology; 2. CCED) Speaker: James McLeman
- 10:45 AM...Characterizing near surface with full-waveform inversion:

 A Delaware Basin case study: W. Kang, R. Yassein, A.
 Burlakov, M. Ortin, A. Montgomery, R. Hearn, A. Sazykin, G.
 Busanello, X. Cheng, D. Vigh (SLB) Speaker: Wei Kang
- 11:10 AM ...Improved imaging of carbonate caves in Tarim Basin using RFWI: V. Lopez¹, M. Zhou¹, M. Luo¹, G. Deng², Z. Wang², D. Jiang³ (1. Sinopec Tech Houston LLC; 2. Sinopec Northwest Company; 3. Sinopec Petroleum Exploration and Production Research Institute) Speaker: Victor Lopez
- 11:35 AM ...Leveraging TLFWI and FWI Imaging to overcome geological complexities and acquisition challenges in onshore Mexico: R. Kumar¹, Y. Agnihotri¹, D. Dobesh¹, H. Ji¹, M. Wang¹, S. Mothi¹, P. Ortega¹, O. Andrade¹, A. M. Arteaga², A. Cabrales², A. Vázquez Cantú² (1. Viridien; 2. Pemex) Speaker: Ravi Kumar

GEOPS 2 All about the Hydrocarbon: Where is it and where it came from

Session Chairs: Ben Kirkland and Ana Vielma

Location: 351A

10:20 AM...Timelapse Geochemistry on Búzios Field: A molecular approach to monitor WAG efficiency: D. S. Dubois¹, J. P.

- Lopes¹, G. R. Salgueiro¹, J. M. Godoy², C. L. Torres², D. M. Coutinho², D. E. Reis², R. Castro², A. G. Carvalho², M. C. Santos², C. Yara², L. F. Trindade², F. R. Aquino Neto², D. A. Azevedo² (1. Petrobras; 2. Universidade Federal do Rio de Janeiro) Speaker: Daniel Dubois
- 10:45 AM...Geochemical Production Allocation Over Time for a New Field in the Norwegian North Sea: P. Franco¹, R. Galimberti¹, T. U. Garlichs², H. Carvajal³ (1. Geolog Technologies; 2. Geolog International BV; 3. Geolog Americas) Speaker: Placido Franco
- 11:10 AM ... "Component flow" characteristics of continental shale oil in micro-nano pores and its significance in development:

 W. Zhao¹, C. Bian¹, W. Liu¹, Y. Li¹, Z. Xu¹, J. Dong², M. Guan¹,
 S. Liu¹ (1. Research Institute of Petroleum Exploration and Development, PetroChina; 2. Research Institute of Petroleum Exploration and Development) Speaker:

 Congsheng Bian
- 11:35 AM ...Spatial Heterogeneity of Bone Spring and Wolfcamp Oils and Key Controls on Properties in the Delaware Basin: X. Sun, C. Walters, T. Zhang (The University of Texas at Austin) Speaker: Xun Sun

PANEL 1 Mergers & Acquisition Uncovered: Market Trends, Deal Execution, and Career Paths in Oil & Gas A&D and Private Equity

Moderator: Sean Kimiagar

Location: 360A

- 10:20 AM...Beyond the Rocks: How Technical Experts Became Leaders in Business and M&A: Panelists: Don Burdick (Olifant Energy), Cristina Stellar (BOK Financial), Peter Dillett (Birch Resources II)
- 11:15 AM ...Raising Capital: What It Takes to Fund an Oil & Gas Startup: Speakers: Matt Dangel (Red Stag Resources), Richard Ball (Red Stag Resources)

SP 2 Machine Learning in Seismic Data Processing 1

Session Chairs: Faruq Akbar and Chaoshun Hu

Location: 372B

- 10:20 AM...Seismic data interpolation based on deep unfolding convolutional dictionary learning: J. Song¹, X. Wang¹, Y. Sui² (1. Beijing Jiaotong University; 2. Aramco Research Center Beijing) Speaker: Junru Song
- 10:45 AM...Machine learning x-t domain antialiasing dip filter with applications for removing ground roll from surface-distributed acoustic sensing land data: Y. Luo, R. Bachrach, A. Y. Sayed, S. Re, E. Gofer, D. Scarpellini (SLB) Speaker: Yantao Luo
- 11:10 AM ...Deep Learning with Wiener Loss for Enhanced Seismic Trace Reconstruction: H. AlSalmi, C. M. John (Digital Environment Research Institute, Queen Mary University of London) Speaker: Haifa AlSalmi
- 11:35 AM ... A transfer learning approach to multichannel wavefield reconstruction with physics-informed neural networks:

 F. Brandolin¹, M. Ravasi², T. Alkhalifah1 (1. KAUST; 2. Shearwater GeoServices) Speaker: Francesco Brandolin

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SS 5 The Business of Oil and Gas 2

Session Chairs: Susan Nash and Judy Schulenberg

Location: 361A

10:20 AM...Career Advancement Network (CAN): Eight years
supporting professionals in energy careers: M. A. Capello¹,
C. Howes², J. Marzonie³, J. Calderin³ (1. Red Tree Consulting,
LLC; 2. Subsurface Consultants & Associates; 3. Integrated
Project Services, LLC) Speaker: Maria Angela Capello

10:45 AM...Introduction to Carbon Credits and the Voluntary Carbon
Market: J. R. Wheeler (Lee Keeling and Associates) Speaker:
John Wheeler

11:10 AM ...Challenges and Opportunities for Qualifying Carbon
Sequestration Prospects in the Northern Gulf of Mexico
Using VHR3D Multi-Streamer Seismic Techniques and
Machine Learning: J. Schulenberg¹, F. B. Michelsen² (1.
Explorer Group 1; 2. GeoSurvey Systems) Speaker: Judy
Schulenberg

11:35 AM ...Enhanced subsurface workflows using GenAl: Automating geological data extraction and prediction from legacy data: J. Scotchman, A. Davies, T. Butt, M. Booker, L. Cowliff (Halliburton) Speaker: James Scotchman

SS 6 Passive Seismic Rising 2

Session Chairs: Shujuan Mao and Fabian Pena

Location: 361B

10:20 AM...Daily Elastic Full-Waveform Inversion for Continuous
Groundwater Monitoring with Stanford DAS Array: H.
Li³, J. Liu¹, S. Mao², S. Yuan³, R. Clapp³, B. Biondi³ (1. MIT;
2. University of Texas at Austin; 3. Stanford University)
Speaker: Haipeng Li

10:45 AM...Ambient Noise Tomography using high-density surface geophone arrays for uranium exploration in the central Athabasca Basin: T. J. Fleure, C. Sicking, W. McLain (Ambient Reservoir Monitoring Inc.) Speaker: Thomas Fleure

11:10 AM ...Imaging Basin Structure Using Rayleigh Wave Ellipticity and Teleseismic Receiver Functions: F. Lin, K. Gkogkas, H. Kim, G. Zaldivar Andrade (University of Utah) Speaker: Fan-Chi Lin

11:35 AM ...**Passive Seismic Rising:** D. Hollis (Sisprobe SAS) Speaker:
Daniel Hollis

SS 7 Near Surface Geophysics Applied to Geothermal Resource Exploration and Characterization

Session Chairs: Christine Downs and Paul Schwering

Location: 362C

10:20 AM...Conventional exploration workflow applied to geothermal resources: R. Asuaje, H. Banaja, S. althuwaiqueb, H. Gonzalez (Saudi Aramco) Speaker: Ramon Asuaje

10:45 AM...BRIDGE-ing the gap: Using public geoscience data to gain a conceptual understanding of the subsurface for geothermal exploration: J. Sellars, L. Batista, G. Plastow, L. Quigly, O. Ward (Seequent) Speaker: Josh Sellars

11:10 AM ...Applications of geophysical datasets to the regional assessment of geothermal potential in the Great Basin region, western USA: N. Wagoner¹, M. Coolbaugh¹, J. E. Faulds¹, J. Glen², J. Peacock², T. Earney² (1. University of Nevada, Reno; 2. U.S. Geological Survey) Speaker: Nicole Wagoner

11:35 AM ...Geothermal Study in Kyushu Island, Japan, Using High-Temperature Superconducting Quantum Magnetic Sensors (SQUIDS): M. Zhdanov¹, A. Gribenko², L. Cox², K. Tanabe³, T. Hato³, A. Tsukamoto³, H. Wakana³ (1. University of Utah; 2. Technolmaging; 3. SUSTEC) Speaker: Michael Zhdanov

SS 8 History of Petroleum Geosciences

Session Chairs: Matt Silverman and Ali Sloan

Location: 371A

10:20 AM...Discovery of the Permian Basin, Early Field Discoveries, Red Bed Map, and Core Workshop: R. F. Lindsay¹, R. Trentham² (1. Lindsay Consulting LLC; 2. University of Texas Permian Basin) Speaker: Robert Lindsay

10:45 AM...**The deepest and longest wells ever drilled:** R. Sorkhabi (University of Utah) Speaker: Rasoul Sorkhabi

11:10 AM ...Fracking with a Nuke: The Gasbuggy Project: M. Silverman (Consultant) Speaker: Matt Silverman

11:35 AM ...Geoscientists, leading the world, really: R. Willis (Retired) Speaker: Roger Willis

SS 9 Geoscientists without Borders: Applied Geosciences to Solve Humanitarian Challenges 2

Session Chairs: Cengiz Esmersoy and Robert Merrill

Location: 372C

10:20 AM...Geophysical characterization of groundwater resources in South-Eastern Senegal: Integrating electrical resistivity tomography and transient electromagnetic methods: A. Tcheheumeni Djanni¹, S. Uhlemann² (1. Cheikh Anta Diop University; 2. Lawrence Berkeley National Laboratory) Speaker: Axel Laurel Tcheheumeni Djanni

10:45 AM...Groundwater recharge and sustainable extraction through resilient forest communities: A. Shakas¹, A. Rozin³, M. Rowley⁴, T. Arora², S. Pathan², R. Dahiya², N. Widmer¹, A. Richard-Ferroudji⁵, P. Koppukonda³ (1. ETH Zurich; 2. NGRI; 3. Sadhana Forest; 4. University of Zurich; 5. Independent Researcher) Speaker: Alexis Shakas

11:10 AM ...The geophysical search for unmarked burials in historic Houston cemeteries: R. Stewart (University of Houston)
Speaker: Robert Stewart

11:35 AM ... Application of 3D resistivity model-based inversion in presurvey design for landslide investigation at Sa Pa, Lao Cai, Vietnam: H. H. Doan², P. H. Giao¹, B. Xuan Hanh³, N. Q. Pham² (1. PetroVietnam University (PVU); 2. Research Scientist; 3. Transport Engineering Design Incorporated) Speaker: Pham Giao

STGM 2 Faults, Fractures, and Fluids 2

Session Chairs: David Forand and James Kessler

Location: 362A

10:20 AM...**ML** Assisted Fracture Interpretation and Applications:

A Case Study in Brazilian Pre-Salt Carbonates, Santos
Basin, Itapu Field: L. V. Souza¹, A. K. Ribeiro², J. A. Souza²,
A. G. Vasconcelos³, T. M. Silva³, R. Aguiar³ (1. Universidade Federal Fluminense; 2. Petrobras; 3. SLB) Speaker: Leonardo Souza

10:45 AM...Fracture Characterization through Integration of disparate real time data set in a structurally Complex Carbonate Reservoir, North Kuwait Jurassic: A Case Study: C. Pattnaik¹, S. Al-Ajmi¹, R. Dolbier², A. Albloushi¹, R. Nakhi¹, Y.

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- Hassan¹, R. Narhari¹ (1. Kuwait Oil Company; 2. Shell Kuwait) Speaker: Chinmaya Pattnaik
- 11:10 AM ...Modeling accurate P32 values during DFN building: No longer guessing input fracture numbers: S. Rivas-Dorado, B. Bohorquez, A. El Hamady, A. Diaz (Rock Flow Dynamics) Speaker: Sam Rivas-Dorado
- 11:35 AM ...Fracture networks in Late Jurassic Arab-D outcrops, Saudi Arabia: Insights for subsurface reservoirs: S. A. Patino, Y. Panara, G. Gairola, V. Vahrenkamp (King Abdullah University of Science and Technology) Speaker: Sebastian Patino

AAS 1 AVO Inversion 1

Session Chairs: Venkatesh Anantharamu and Cyrille Reiser

Location: 372C

- 1:20 PM.....Vp/Vs inversion using pre-stack seismic data and domain adaptation-based transfer learning: A. Dixit, A. Mandal (Indian Institute of Technology Kanpur) Speaker: Anjali Dixit
- 1:45 PM.....**Geophysics-informed data-driven fluid estimator:**K. Osypov, M. Gomes, M. Belonosov, S. Singh, F. Jiang
 (Halliburton) Speaker: Konstantin Osypov
- 2:10 PMComparative analysis of seismic impedance inversion methods featuring a novel rock physics-based machine learning approach: P. de Groot, U. Strecker, A. Huck, H. Refayee (dGB Earth Sciences) Speaker: Hesham Refayee
- 2:35 PM.....**What's The Best Time Interval for Well Log Interpolation?:**J. Zhang, D. Kumar, R. Biswas, K. Wolf, K. Jonke, S. Li, G. Xia,
 J. Etgen (bp) Speaker: Jingfeng Zhang

BH 3 Sonic and Signal Processing Techniques

Session Chairs: Matthew Blyth and Edgar Velez

Location: 362B

- 1:20 PM.....Advanced wellbore dipole sonic imaging of complex lithology and near-wellbore fractures: B. E. Hornby (Hornby Geophysical Services, LLC) Speaker: Brian Hornby
- 1:45 PM Through Tubing Cement Evaluation with An Array Sonic
 Tool: R. Wang, Y. Ge, F. H. de Araujo, B. Cabella, X. Wu
 (Halliburton) Speaker: Ruijia Wang
- 2:10 PM..... A novel guided modes separation method based on spectrum estimation: Q. Bi, H. Wang (University of Electronic Science and Technology of China) Speaker: Qizhi Bi
- 2:35 PM..... Automated Well Log Depth Matching using Deep Learning-Based Optical Flow Techniques: L. Fu, T. Lin, Q. Zhang, W. Li (Aramco Americas) Speaker: Lei Fu

CAEV 3 In Memoriam and In Honor 1

Session Chairs: Ben Rendall and Akbar Wicaksono

Location: 351B

- 1:20 PM.....Luis Pomar's Legacy: From Carbonate Outcrops to
 Process-Product Analysis: G. Mateu Vicens¹, M. Brandano²,
 J. Baceta³, H. Westphal⁴ (1. University of the Balearic
 Islands; 2. Sapienza University of Rome; 3. University of the
 Basque Country; 4. University of Bremen) Speaker: Guillem
 Mateu Vicens
- 1:45 PM.....Some carbonate conundrums resolved: A tribute to unique perspectives of Luis Pomar: P. Hallock (University of South Florida) Speaker: Pamela Hallock
- 2:10 PM.....Resilience of carbonate platforms to mass extinction events: A tribute to Michael T. Whalen: G. Eberli¹, E.

Guzmán-Hidalgo² (1. University of Miami; 2. Universidad Nacional Autónoma de México) Speaker: Gregor Eberli

DAS 3 Surface Seismic and Interferometry

Session Chairs: Milad Bader and Ge Jin

Location: 371B

- 1:20 PM.....Practical Application of Distributed Spiral Cable in Onshore Seismic Exploration: J. Zhu, B. Liu, J. Wang, J. Zhu (Sinopec Geophysical Company) Speaker: Jing Zhu
- 1:45 PM.....Low frequency ambient noise interferometry and Scholte wave inversion on surface DAS (S-DAS) data in deepwater Gulf of America: S. Riseman¹, A. Y. Sayed¹, Z. T. Jackson¹, R. Bachrach¹, R. Dash², Y. Tian², I. Lim Chen Ning², S. Oppert² (1. SLB; 2. Chevron) Speaker: Seth Riseman
- 2:10 PM.....Health Monitoring of Dam Using Distributed Acoustic
 Sensing and Seismic Interferometry: J. Guan, F. Cheng, J.
 Xia (Zhejiang University) Speaker: Jianbo Guan
- 2:35 PM.....Near-surface variations captured by continuous DAS
 and Surface Orbital Vibrators monitoring: S. Yavuz¹, R.
 Isaenkov², B. Gurevich², J. Correa³, B. Freifeld⁴, R. Pevzner²
 (1. Silixa; 2. Curtin University; 3. Lawrence Berkeley National Laboratory; 4. Class VI Solutions) Speaker: Sinem Yavuz

DMLA 1 Subsurface Model Building

Session Chairs: Kun Guo and Anusha Sekar

Location: 372A

- 1:20 PM.....Data-driven initial shear-wave velocity model building for elastic full-waveform inversion: N. P. Pham, S. D. Phan, H. Di, T. Zhao, W. Hu (SLB) Speaker: Nam Pham
- 1:45 PM.....Expert-in-the-loop Adaptive AI for multi-attribute driven
 Velocity Scenario Generation: A. Gala, C. Docherty, P.
 Devarakota, J. J. Kimbro (Shell) Speaker: Apurva Gala
- 2:10 PM.....**Applications of deep neural networks for velocity model building:** Ø. Korsmo, S. Crawley, N. Chemingui (TGS)
 Speaker: Nizar Chemingui
- 2:35 PM.....Leveraging Phase Neural Operator for microseismic phase arrival picking: A. Abdullin¹, U. Waheed¹, L. Eisner² (1. King Fahd University of Petroleum and Minerals; 2. Seismik s.r.o) Speaker: Umair Bin Waheed

FWI 2 Machine Learning 2

Session Chairs: Hong Liang and Rongrong Lu

Location: 370A

- 1:20 PM.....Application of Siamese Neural Network for Multiparameter Elastic Full Wave Inversion: O. M. Saad, T. Alkhalifah (King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia (KAUST)) Speaker: Omar M. Saad
- 1:45 PM.....Score-based generative models for anisotropic full-waveform inversion in the presence of salt bodies: A.

 Dhara², D. Voytan¹, S. Ravula¹, J. Bronson¹, A. Ardel¹, R.

 Tuvi¹, Y. Gandhi¹, S. Hu², Y. Xie², M. Sen² (1. Avathon; 2. The University of Texas at Austin) Speaker: Arnab Dhara
- 2:10 PM.....Neural network multiphysics joint inversion: Merging seismic waveform, gravity, and direct current resistivity data: T. Zhang, K. Innanen (University of Calgary) Speaker: Tianze Zhang
- 2:35 PM.....Hybrid UFNO-FWI: Enhancing full waveform inversion through iterative neural networks: C. A. Leao², R. Pestana¹,

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D. Revelo², D. F. Pacheco², V. Koehne³ (1. Federal University of Bahia; 2. SENAI-CIMATEC; 3. SENAI CIMATEC HPC Center (Non-Author)) Speaker: Victor Koehne

GEOPS 3 Setting the Stage: Source Facies and Paleoenvironment

Session Chairs: Tim Ruble and Aaron Summerfield

Location: 351A

- 1:20 PM.....H₂S in a deepwater well in the Gulf of Mexico: Geochemical assessment of the origin of an unwelcome guest: I.

 Arango¹, F. Gelin², P. Evans¹, K. Ogden¹, T. Kozel¹, J. Wang¹, H.
 Zhou² (1. Chevron; 2. TotalEnergies) Speaker: Irene Arango
- 1:45 PM.....Use of scavenging reservoirs to unlock stranded sour hydrocarbons plus hydrogen byproduct: S. Stewart, S. Arkadakskiy, J. Ismail (Saudi Aramco) Speaker: Simon Stewart
- 2:10 PM.....Comparing the palynology of the onshore and offshore
 Wilcox Group: V. Smith¹, M. A. Lorente¹, D. Bord¹, L. G.
 Moscardelli², I. Olariu², I. Prince³ (1. Ellington Geological
 Services; 2. Bureau of Economic Geology; 3. Shell
 International Exploration and Production) Speaker: Vann
 Smith
- 2:35 PM.....Cretaceous Source Rocks, Powder River Basin, Wyoming and Montana: S. Sonnenberg (Colorado School of Mines)
 Speaker: Stephen Sonnenberg

SP 3 Velocity Model Building and Tomography

Session Chairs: Odette Aragao and Olga Zdraveva

Location: 372B

- 1:20 PM.....Velocity model building with uncertainty quantification using a multi-modal autoregressive generative network: R. Harsuko, S. Cheng, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Randy Harsuko
- 1:45 PM.....An initial velocity model building method based on multimodal texture transfer network: L. Wang, J. Liang, S. Liang, J. Zhu, K. Xin, Z. Wang (BGP) Speaker: Lei Wang
- 2:10 PM.....Automated Residual Moveout Surface picking with machine learning model on 5D OBN CIGs: W. Pan¹, S. Ye³, H. Rynja², J. Beishuizen⁴, J. Chen¹, J. Vila¹, P. Webster³ (1. Shell Information Tech. International Inc.; 2. Shell International Exploration & Production Company; 3. Shell International Exploration & Production Company; 4. Shell Global Solutions International B.V.) Speaker: Wen Pan
- 2:35 PM.....A Flexible Framework for Constrained Dix Inversion using
 Alternating Direction Method of Multipliers: V. Akcelik,
 A. Rueger, L. Casasanta (Shearwater GeoServices, UK)
 Speaker: Volkan Akcelik

SS 10 AAPG Academy 1

Session Chairs: Andrew Davidoff and Matthias Imhof

Location: 360A

- 1:20 PM.....Enhanced Productivity in Naturally Fractured Karstified
 Reservoirs: A Case Study from the Brazilian Presalt: R.
 Correa¹, B. B. Carvalho¹, E. Ukar², A. Fall², A. Pestilho³, S. E.
 Laubach² (1. Petrobras; 2. The University of Texas at Austin;
 3. Universidade de São Paulo) Speaker: Rodrigo Correa
- 1:45 PM.....New Technologies for Enabling Increases in Recoverable Reserves: S. S. Nash (AAPG) Speaker: Susan Nash

- 2:10 PM.....Assessing the Impact of Natural Fractures on Reservoir
 Plumbing: J. Lorenz (FractureStudies LLC) Speaker: John
 Lorenz
- 2:35 PM.....Bridging ai and geology: The role of large language models in the future of geoscience: Y. Xiao¹, J. Ye² (1. Yunqi Academy of Engineering; 2. Zhejiang Laboratory) Speaker: Yitian Xiao

SS 11 Emerging Geoscience Technologies for Geothermal Energy 1

Session Chairs: Erkan Ay and Lianjie Huang

Location: 361A

- 1:20 PM.....**Testing Needs for SuperHot Rock Geothermal Energy:** S. Petty (HotRock Energy Research Organization) Speaker: Susan Petty
- 1:45 PMUnlocking Gigawatt-Scale Enhanced Geothermal: The
 Critical Role of Geoscience Technologies: S. Dadi (Fervo
 Energy) Speaker: Sireesh Dadi
- 2:10 PMAn Active Tracer for Hydraulic Control of Cooled Short
 Circuits: A. J. Hawkins (Clemson University) Speaker: Adam
 Hawkins
- 2:35 PM.....Geothermal play fairway analysis in the Great Basin region:
 N. Wagoner¹, J. E. Faulds¹, M. Coolbaugh¹, C. Lindsey¹, W.
 Trainor-Guitton² (1. University of Nevada, Reno; 2. National Renewable Energy Laboratory) Speaker: Nicole Wagoner

SS 12 Geophysics for Urban Spaces and Infrastructure 1

Session Chairs: Haipeng Li and Jingxiao Liu

Location: 362C

- 1:20 PM.....Distributed fiber optic sensing of bridge structures:
 G. Arulananthan, N. Opperman, C. Wu, J. C. Hampton
 (University of Wisconsin-Madison) Speaker: Jesse Hampton
- 1:45 PM.....Efficient DAS Ambient Noise Imaging Around
 Infrastructure with SVD Compression: G. Brooks, E. Martin
 (Colorado School of Mines) Speaker: Eileen Martin
- 2:10 PM.....Rapid Building Damage Assessment for the 2023 M7.8

 Turkey Earthquake Sequence Using Satellite Imagery and
 Causal Bayesian Networks: X. Li, S. Xu (Johns Hopkins
 University) Speaker: Xuechun Li
- 2:35 PM.....Site characterization for seismic hazard assessment using telecom cables on the MIT campus in Cambridge,
 Massachusetts: H. Chang¹, N. Nakata² (1. Massachusetts
 Institute of Technology; 2. LBNL/MIT) Speaker: Hilary Chang

SS 13 Recent Advances and the Road Ahead: Hot Topics in Geoscience 1

Session Chairs: Sergio Chávez-Pérez and Stephan Gelinsky

Location: 371A

- 1:20 PM.....Illuminating the subsurface: How geology and rock physics help to understand what we image: S. Gelinsky (Ephangeli Enterprises) Speaker: Stephan Gelinsky
- 1:45 PM.....Studying Viscoplastic Stress Relaxation in the Lab and Applying it to Optimizing Multi-Stage Hydraulic Fracturing in the Field: M. D. Zoback (Stanford University) Speaker:

 Mark Zoback
- 2:10 PM.....From Airborne Electromagnetic Data, through Field-Scale
 Rock Physics, to Images of the Groundwater Systems of
 California's Central Valley: R. Knight (Stanford University)
 Speaker: Rosemary Knight



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2:35 PM.....4D seismic using low-frequency, ambient-noise Scholte wave interferometry on surface DAS: Amos Nur's legacy, new energy and CCS applications: R. Bachrach, S. Re, E. Gofer (SLB) Speaker: Ran Bachrach

STGM 3 Petroleum System Tectonics and Structural Styles: Lithosphere to Thin Section 1

Session Chairs: Jim Hnat and David Lewis

Location: 362A

1:20 PM.....WITHDRAWN

- 1:45 PMIgneous-influenced hydrocarbon traps beneath Idaho's Western Snake River Plain: Insights from seismic and well log analysis: M. Barton (Idaho Geological Survey) Speaker: Mark Barton
- 2:10 PM.....Petroleum system evaluation and structural evolution of the Northern Egyptian Red Sea: Insights from onshore and offshore analysis: A. M. Noureldin¹, G. Saleh², M. Radwan¹ (1. EUG; 2. SLB) Speaker: Ahmed Noureldin
- 2:35 PM.....Early Crustal Deformation and Petroleum Prospectivity of the Northern Pelotas Basin: K. Reuber, D. Unger, H. Houllevigue (TGS) Speaker: Kyle Reuber

USC 2 Studies of Geologic and Geophysical Processes: Permian Basin and Eastern Shelf System 1

Session Chairs: Cucha Lopez and Mitch Schneider

Location: 361B

- 1:20 PM.....Ellenburger Paleokarst in Midland Basin: New insights: H. Zeng, R. Loucks, X. Janson (The University of Texas at Austin) Speaker: Hongliu Zeng
- 1:45 PMRevising the location and character of the Grenville fold and thrust front in West Texas and southeast New Mexico using 3D seismic reflection data: Implications for crustal structure and induced seismicity: E. A. Horne², P. H. Hennings², C. J. Lopez¹, D. F. Stockli² (1. ExxonMobil; 2. The University of Texas at Austin) Speaker: Elizabeth Horne
- 2:10 PM.....Well log foundation model: Making promptable AI models for interpretation: B. G. Lasscock, K. Gonzalez, A. Sansal, A. Valenciano (TGS) Speaker: Ben Lasscock
- 2:35 PM.....Comparison of Completions and Production from Permian Basin Landing Zones: T. P. McMahon (University of Texas at Austin) Speaker: Timothy McMahon

AAS 2 Stochastic Seismic Inversion and Analysis

Session Chairs: Prashant Mishra and Jingfeng Zhang

Location: 372C

- 3:40 PM.....Scaling WEB-AVO Inversion on the cloud for enhanced uncertainty quantification: P. Doulgeris¹, M. Kajita², P. Haffinger¹, D. Gisolf¹, N. Chasnikov¹ (1. Delft Inversion; 2. Amazon Web Services) Speaker: Panos Doulgeris
- 4:05 PM.....Automated Well-tie SysteM (AWSM) for seismic depth calibration and wavelet estimation using Parallel Tempering MCMC (PT-MCMC): A Midland basin case study: U. Lim, T. Wagoner, R. Cardona (Chevron U.S.A. Inc.) Speaker: Un Young Lim
- 4:30 PM.....Seismic inversion based on Markov chain Monte Carlo algorithms and attention mechanisms: L. Yang, H. Lv, Z. Ding, L. Yin (Sinopec Geophysical Research Institute Co.,Ltd) Speaker: Liuxin Yang

4:55 PM.....Power-scaled Bayesian inference with score-based generative models: H. Erdinc, Y. Zeng, A. Gahlot, F. J. Herrmann (Georgia Institute of Technology) Speaker: Huseyin Tuna Erdinc

CAEV 4 In Memoriam and In Honor 2

Session Chairs: Ted Playton and Arnoud Slootman

Location: 351B

- 3:40 PM.....Sedimentary facies and depositional model of Permo-Triassic Khuff Formation in Southern Arabian Gulf: A. S. Alsharhan (Middle East Geological & Environmental Establishment) Speaker: Abdulrahman Alsharhan
- 4:05 PM.....Growth History of an Enduring Empty Buckett: The Al Wajh Carbonate Platform of Saudi Arabia: V. Vahrenkamp², I. Putri¹, A. N. Wicaksono², T. Luedmann³, C. Betzler³, G. Frijia⁴, A. Cipriani⁵, T. Chirakal², A. Petrovic⁶ (1. KAUST; 2. KAUST (King Abdullah University of Science and Technology); 3. Universität Hamburg; 4. Università di Ferrara; 5. Dipartimento di Scienze Chimiche e Geologiche; 6. Carmeuse) Speaker: Volker Vahrenkamp
- 4:30 PM.....Fifty years of research on the Joulters ooid sandbody: An invaluable subsurface analog: P. M. Harris (Univ. of Miami) Speaker: Paul Harris

DAS 4 Innovative Applications 1

Session Chairs: Yuanyuan Ma and Aleksei Titov

Location: 371B

- 3:40 PM.....Towards low-cost wellbore evaluation: The experiment: I. Lim Chen Ning¹, B. Harvey¹, T. Tokar¹, M. Terry¹, F. Wedjane¹, L. Grohman¹, P. Adegboye¹, V. Torrealba¹, A. Garioch², S. Milne² (1. Chevron USA Inc.; 2. Well-Sense Technology Ltd) Speaker: Ivan Lim Chen Ning
- 4:05 PM.....Utilizing Low-Frequency DAS to Evaluate Cement Quality for Horizontal Wells: S. Jin, G. Jin (Colorado School of Mines) Speaker: Shenyao Jin
- 4:30 PM.....Towards Fiber-Optic Geodesy: Capturing Rapid Dynamics of Magma Intrusions in Iceland with LFDAS: J. Li², E. Biondi¹, E. Heimisson⁵, V. Hjörleifsdóttir³, S. Puel¹, Q. Zhai¹, S. Zhang¹, X. Wei¹, E. Bird¹, V. Kamalov⁴, H. Geirsson⁵, Z. Zhan¹ (1. Caltech; 2. University of Houston; 3. Reykjavik University; 4. Valey Kamalov LLC; 5. University of Iceland) Speaker: Jiaxuan Li
- 4:55 PM.....Bridge Modal Analysis and Displacement Estimation using DAS data: Y. Zhong, C. Gu, P. Wu, Z. Yuan, Z. Chen, J. He (Tsinghua University) Speaker: Yichen Zhong

DMLA 2 Surrogate Models and Image Enhancement

Session Chairs: Adam Halpert and Ana Krueger

Location: 372A

- 3:40 PM.....Seismic image super-resolution with denoising diffusion probabilistic model: Y. Ni, N. Pham, W. Hu, T. Zhao (SLB) Speaker: Yiyu Ni
- 4:05 PM.....CO₂ Enhanced Oil Recovery Through Digital Shadow Modeling: H. Li¹, A. Gahlot¹, O. Møyner², F. J. Herrmann¹ (1. Georgia Institute of Technology; 2. SINTEF Digital) Speaker: Haoyun Li
- 4:30 PM.....From Bayesian inversion to decision: Rapid screening and clustering of thousands of reservoir scenarios through ML-based flow diagnostics: A. Fathi, Z. Chen, Q. Nguyen,

Tuesday, 26 August

- B. Wheelock, S. Richardson, M. Len, K. Daly, G. Seastream (ExxonMobil) Speaker: Arash Fathi
- 4:55 PM.....**ML-based proxy model for predicting contamination cleanup in highly deviated wells:** L. Xu, C. Jeong, Y. Chang, J. J. Pop, A. Dykes, S. A. Haq (SLB) Speaker: Liangyu Xu

FWI 4 Objective Functions and Uncertainty

Session Chairs: Ludovic Métivier and Juan Wang

Location: 370A

- 3:40 PM.....Multi-dimensional AWI: Theory and application in the

 Eastern Mediterranean: J. Reilly¹, T. Nangoo¹, A. Umpleby¹,

 N. Shah¹, M. Warner², H. A. Debens³, J. Cai³, T. Castro Leyva³

 (1. S-Cube; 2. Imperial College London; 3. Woodside Energy)

 Speaker: Tenice Nangoo
- 4:05 PM.....Intrinsic connection of traditional FWI and traveltime inversion: L. Tan, J. Yuan (Advanced Geophysical Technology, Inc.) Speaker: Lijian Tan
- 4:30 PM.....Uncertainty quantification in time-lapse full waveform inversion: A comparative study of Hamiltonian Monte Carlo and Stein Variational Gradient Descent: J. Li, K. Innanen (University of Calgary) Speaker: Jinji Li
- 4:55 PM.....Demigration-based reflection full waveform inversion using dynamic matching misfit function: H. Liang¹, Y. Kim², M. Dmitriev² (1. Aramco Americas: Aramco Research Center-Houston; 2. EXPEC Advanced Research Center, Saudi Aramco) Speaker: Hong Liang

GEOPS 4 Are you up to date? What's new and what's working

Session Chairs: Humberto Carvajal and Catherine Donohue

Location: 351A

- 3:40 PM..... Maximizing Uinta Basin oil well yield through isotopic fingerprinting of flow-back waters: T. W. Day¹, J. H. McBride¹, L. Burgener¹, S. M. Hudson¹, R. Brinkerhoff², S. Phillips³ (1. Brigham Young University; 2. Consultant; 3. Wasatch Energy Management) Speaker: Troy Day
- 4:05 PM.....Gas intake experiments in oil-bearing Eagle Ford shale at reservoir pressure and effect of gas types on enhanced oil recovery: T. Zhang¹, X. Li¹, X. Sun¹, B. Gates² (1. The University of Texas at Austin; 2. Ageron Energy LLC) Speaker: Tongwei Zhang
- 4:30 PM.....Evaluation of gas compositions and compound-specific isotopes from hydrous pyrolysis of coal: P. Srinivasan¹, Q. Fu², T. Sun², J. Radovic² (1. Aramco Americas; 2. University of Houston) Speaker: Poorna Srinivasan
- 4:55 PM.....Evolving insights from diamondoids in a global hydrocarbon fluid dataset: R. van der Ploeg¹, C. Plet², F. Akbas², J. Weijers², S. van den Boorn², P. van Bergen³ (1. Shell International Exploration & Production Company; 2. Shell Global Solutions International B.V.; 3. Shell Research Ltd.) Speaker: Robin van der Ploeg

SP 4 Near Surface Solution and Elastic 2

Session Chairs: Milos Delic and Mandy Wong

Location: 372B

- 3:40 PM..... A simple method for high-precision converted-wave (P-SV) static corrections: F. Feng, C. Hu, X. Bai, Z. Du, B. Yu, C. Wang, L. Wu, Q. Ma, M. Wang, Y. Lan (BGP, CNPC) Speaker: Faquan Feng
- 4:05 PM.....Integration preconditioning for ocean bottom node data: A. Jafargandomi, A. Kumar, S. Grion (Shearwater GeoServices) Speaker: Arash Jafargandomi
- 4:30 PM.....Short wavelength residual statics correction with ORKA algorithm: Y. Xu (Harbin Institute of Technology) Speaker:
- 4:55 PM.....An intelligent multi-mode surface wave suppression method based on dispersion: Y. Sun, Z. Guo, J. An, J. Wang, Y. Yang, Y. Yu (BGP, CNPC) Speaker: Yunsong Sun

SS 14 AAPG Academy 2

Session Chairs: Andrew Davidoff and Matthias Imhof

Location: 360A

- 3:40 PM.....Characterization of Basement Rocks for the Next-Generation Geothermal Energy Exploration: S. Bhattacharya¹, B. Young¹, A. Turan² (1. The University of Texas at Austin; 2. Independent) Speaker: Shuvajit Bhattacharya
- 4:05 PM.....Using a basin modeling approach to estimate geothermal resources in deep hot sedimentary basins: J. Birdwell, S. Gelman, R. Gardner, E. Burns (U.S. Geological Survey) Speaker: Justin Birdwell
- 4:30 PM.....From Artesian Well to Global Reserves: Libya's Oil Exploration Story: H. Refayee (dGB Earth Sciences) Speaker: Hesham Refayee
- 4:55 PM.....3D basin modeling for predicted hydrocarbon trends in the Campos-Santos-Espirito Santo basins, Brazil: S. Cornelius (University of Houston) Speaker: Sharon Cornelius

SS 15 Emerging Geoscience Technologies for Geothermal Energy 2

Session Chairs: Erkan Ay and Joel Le Calvez

Location: 361A

- 3:40 PM..... A Technological Path Towards Superhot Geothermal: R. Mellors (ARPA-E) Speaker: Robert Mellors
- 4:05 PM.....Current Activities at the Utah Frontier Observatory for Research in Geothermal Energy (FORGE): J. Moore (University of Utah) Speaker: Joseph Moore
- 4:30 PM.....Seeking Energy Resiliency on Department of Defense
 Installations using Geothermal Power: A. Sabin (US Navy)
 Speaker: Andrew Sabin
- 4:55 PM.....Discussion



Tuesday, 26 August

SS 16 Monitoring of the Near Surface Earth

Session Chairs: Moses Adebayo and Lee Slater

Location: 362B

3:40 PM.....Repeated geoelectrical monitoring of soils across coastal interfaces reveals changes in soil hydrology and biogeochemistry: K. Doro, E. Emmanuel, O. Q. Ogunsola, P. I. Olabode (University of Toledo) Speaker: Kennedy Doro

4:05 PM.....A Generative ML-Based Inversion Approach for Calibrating
Flow and Transport Models with ERT Monitoring Data: T.
C. Johnson, G. Hammond, P. Jaysaval, R. Mackley (Pacific Northwest National Laboratory) Speaker: Tim Johnson

4:30 PM.....**4D Monitoring of Natural and Managed Aquifer Recharge via Seismic Interferometry:** S. Mao¹, W. L. Ellsworth², Y.
Zheng³, G. C. Beroza² (1. The University of Texas at Austin;
2. Stanford University; 3. The University of Texas at Dallas)
Speaker: Shujuan Mao

4:55 PM.....Investigating permafrost degradation beneath beaver ponds in northwestern Alaska using ground-penetrating radar: J. Sriharan¹, R. Rangel¹, K. Tape², B. Jones², M. Loranty³, T. Glass², V. Zavoico², P. Kehoe², S. Johnston², J. Clark², C. Maio² (1. University of Toronto; 2. University of Alaska Fairbanks; 3. Colgate University) Speaker: Jananee Sriharan

SS 17 Geophysics for Urban Spaces and Infrastructure 2

Session Chairs: Eileen Martin and Sayan Mukherjee

Location: 362C

3:40 PM.....Leveraging Passive Seismic Monitoring for Urban Water and Energy Sustainability: S. Mao¹, G. C. Beroza², W. L. Ellsworth² (1. The University of Texas at Austin; 2. Stanford University) Speaker: Shujuan Mao

4:05 PM.....Telecommunications Infrastructure and Distributed Fiber
Sensing: A. Chavarria (VIAVI Solutions) Speaker: Andres
Chavarria

4:30 PM.....Multi-purpose urban monitoring with embedded distributed acoustic sensing: Traffic visualization and water pipeline assessment: J. Saw, M. Jasiak, S. Chiu, K. Soga (UC Berkeley) Speaker: Jaewon Saw

4:55 PM.....Building environment and human activity monitoring across multistory DAS arrays: C. Gu¹, Y. Zhong¹, P. Wu¹, M. Fehler², G. Prieto³, D. Wang¹, Z. Yuan¹, Z. Chen¹, J. He¹ (1. Tsinghua University; 2. Fehler Consultancy LLC; 3. Universidad Nacional de Colombia) Speaker: Chen Gu

SS 18 Recent Advances and the Road Ahead: Hot Topics in Geoscience 2

Session Chairs: Sergio Chávez-Pérez and Stephan Gelinsky

Location: 371A

3:40 PM.....On the Origin of (Digital) Species: A Tribute to Sven Treitel:
C. Liner (University of Arkansas) Speaker: Christopher Liner

4:05 PM.....Linear and nonlinear operators in seismic data analysis: S. Fomel (University of Texas at Austin) Speaker: Sergey Fomel

4:30 PM.....Three tales of elegant mathematics in seismic-imaging geophysics: A tribute to Sven Treitel: J. A. Dellinger, J. Etgen (BP) Speaker: Joe Dellinger

4:55 PM.....Rock Physics based inversion of seismic data using neural networks: A collaboration with Sven Treitel: M. Chapman (University of Edinburgh) Speaker: Mark Chapman

STGM 4 Geomechanics 1

Session Chairs: Jose Adachi and Yaser Alzayer

Location: 362A

3:40 PM.....Overpressure and fluid flow in mud volcano systems:
Insights from the Giza mud volcano, offshore West Nile
Delta: R. Gulmammadov², S. J. Covey-Crump¹, M. Huuse¹,
J. Heller² (1. The University of Manchester; 2. Ikon Science)
Speaker: Rashad Gulmammadov

4:05 PM.....Geomechanical risk assessment for CO₂ storage in the North Sea's Luna site: A seismic-driven coupled compositional flow and geomechanics approach: A. Haghi, P. Park, R. Porjesz (Viridien) Speaker: Amir Haghi

4:30 PM.....Prediction of geomechanical parameters combining drilling and logging data: M. Dong, H. Chen (Tongji University) Speaker: Mengxun Dong

4:55 PM.....Predicting carbonate-rich hydraulic fracture baffles and barriers via a simple integrated screening methodology: E. Gross, Y. Tan, J. Wang, L. Li (Chevron) Speaker: Evan Gross

USC 3 Studies of Geologic and Geophysical Processes: Pacific Region and Canada

Session Chairs: Alex Bruner and Scott Singleton

Location: 361B

3:40 PM.....Hidden canyons of the mid-Campanian unconformity and converging shelf margins: Upper Cretaceous Brookian
Sequence sediment routing, North Slope Alaska: J. Covault
(The University of Texas at Austin) Speaker: Jake Covault

4:05 PM.....Petroleum system of offshore Labrador, Canada Call for Bids 2025: A. K. Hartwig, H. Houllevigue, K. Reuber, S. Tierrablanca (TGS) Speaker: Andrew Hartwig

4:30 PM.....Anisotropy impacted AVO response: An example from offshore Newfoundland, Canada: K. Jonke, D. Kumar, S. Li, J. Zurbuchen, C. Purcell, D. Ni (bp) Speaker: Katarina Jonke

4:55 PM.....Depositional controls on reservoir quality within the Early
Triassic Montney Formation (Coquina Dolomite) at Kaybob
South Triassic Field, Alberta Canada: A. Alberti (Baylor
University) Speaker: Anna Alberti

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Wednesday, 27 August

AAS 3 Poststack Seismic Inversion

Session Chairs: William Hernandez and Dip Singha

Location: 372C

8:00 AM.....Acoustic impedance inversion method based on adaptive wavelet: L. Zhao, D. Cao (China University of Petroleum - East China) Speaker: Lian Zhao

8:25 AM.....**3D Seismic Characterization of the Arbuckle Group in the Wellington Field, South-Central Kansas:** M. A. Tsiboe¹, G.
P. Tsoflias¹, B. R. Bream² (1. University of Kansas; 2. Kansas Geological Survey) Speaker: Mary Tsiboe

8:50 AM.....Unmasking Stratigraphy: Lithology-Driven Spectral

Decomposition with EEI: R. Negrete, K. E. Onofre Alviso, K.

Vazquez Reyes (Harbour Energy) Speaker: Rocio Negrete

9:15 AM.....Distance and Quadrant attributes applied to the Volve field, offshore Norway: A feasibility study: N. Choudhry¹, H. Bedle¹, D. B. Neff², W. H. Neff² (1. University of Oklahoma; 2. Phillips Petroleum (Retired)) Speaker: Noor ul huda Choudhry

AFR 1 Africa's Exploration Past and Future Opportunities

Session Chairs: Jean-Christophe Bosset and William Bosworth

Location: 361A

8:00 AM.....High impact exploration in Africa since 2020: J. Collard¹, G. Bagley² (1. Westwood Global Energy Group; 2. Westwood (Non-Author)) Speaker: Graeme Bagley

8:25 AM.....Revised Jurassic chronostratigraphy of the Western

Desert, Egypt, and its implications for oil and gas
exploration: D. F. Stockli, W. Bosworth (University of Texas
at Austin) Speaker: Daniel Stockli

8:50 AM.....New Concepts in the Cretaceous Rifts of Liberia: K. W.
Carlson (KC Geoscience Consulting) Speaker: Karen Carlson

9:15 AM.....Hidden in Plain Sight: Potential Giant Discoveries Missed for Non-Geological Reasons: G. T. Penfield (Chicxulub Geosciences) Speaker: Glen Penfield

BM 1 Petroleum System Analysis and Modeling

Session Chairs: Lukasz Krawczynski and Fausto Mosca

Location: 351A

8:00 AM.....Generation, migration and hydrocarbon characterization of the Pre-Salt, Santos Basin: M. A. dos Reis¹, H. Penteado¹, A. J. Vieira¹, A. Svartman Dias¹, A. L. Spigolon¹, C. V. Araujo², C. P. Fracalossi¹, C. M. Caetano¹, C. D. Lima¹, C. F. Silva¹, E. T. Morais¹, E. V. dos Santos Neto³, J. P. Lopes¹, J. A. Iemini¹, L. M. de Araújo², T. R. Menezes¹, Y. d. Rocha¹ (1. PETROBRAS; 2. Associação Brasileira de Geólogos do Petróleo; 3. Universidade Federal Fluminense) Speaker: Maria Anna dos Reis

8:25 AM.....Controls and predictions of oil accumulations and column heights in gas dominated petroleum systems: L.

Krawczynski (Top Down PSA) Speaker: Lukasz Krawczynski

8:50 AM.....A new approach to predict heat flow and petroleum systems on complex margins: Insights from the Brazilian Atlantic margin: D. Paton¹, P. J. Markwick², J. Naliboff⁴, T. Rajaonarison⁴, L. Xue⁴, M. C. Araujo³ (1. Tectonknow; 2. Knowing Earth; 3. Petrobras; 4. NMT) Speaker: Douglas Paton

9:15 AM.....Guyana-Surinam basin: An Example of the Impact of
Overpressure on Drainage Area and Charge History; Insight

from 3D Basin Modeling: T. Cornu, J. Mathieu, S. Tenepalli, e. zagotto, a. quin (TotalEnergies) Speaker: Tristan Cornu

CAEV 5 Unconventional Carbonate Systems

Session Chairs: Cody Miller and Matt Wasson

Location: 351B

8:00 AM.....Controls on porosity and permeability in unconventional reservoirs: D. Minisini (ExxonMobil) Speaker: Daniel Minisini

8:25 AM.....Variable depositional styles of a carbonate-dominated toe of slope and basinal system: Early Leonardian (Wolfcamp A) of the Midland Basin: A. Eljalafi², R. Holman², A. Bonilla-Rodriguez², W. Walker¹, B. Bryce² (1. University of Texas; 2. Ovintiv) Speaker: Abdulah Eljalafi

8:50 AM.....Integration of Petroleum Geochemistry with Gross
Depositional Environment Mapping Across the Slope to
Basin Transition in the Midland Basin: D. Hull (Ovintiv)
Speaker: David Hull

9:15 AM.....Pore systems in oil-window claystones and dolomudstones of lower Green River Formation (Castle Peak Shale through Lower Garden Gulch), Uinta Basin, Utah: M. Pommer¹, L. Fidler2 (1. Stratascope Geologic; 2. SM Energy) Speaker: Maxwell Pommer

DAS 5 Innovative Applications 2

Session Chairs: Joel Le Calvez and Zhishuai Zhang

Location: 371B

8:00 AM.....**Monitoring strain using downhole jewelry:** J. R. Voyles, I.
Lim Chen Ning, D. Thornton, K. Davies (Chevron) Speaker:
Jonathan Voyles

8:25 AM.....Self-supervised Diffusion Model for Distributed Acoustic Sensing Data Denoising: O. M. Saad, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Omar M. Saad

8:50 AM.....DAS VSP within Hybrid Coiled Tubing Intervention Program for Geothermal Exploration: F. Stanek², M. Gaeta¹, G. lervese¹, A. Khayyat² (1. Smape Srl; 2. Silixa) Speaker: Frantisek Stanek

9:15 AM.....Quantitative Assessment of Parent Well Effect on Hydraulic Fracture Propagation at HFTS2: Insights from Cross-Well Strain Measurements and Microseismic Data: P. Li¹, G. Jin¹, R. W. Hammack², E. Zorn², R. Gibson¹ (1. Colorado School of Mines; 2. National Energy Technology Laboratory) Speaker: Peivao Li

FWI 5 Elastic and Multiparameter

Session Chairs: Adriano Gomes Dos Santos and Yongzhong Wang Location: 370A

8:00 AM.....Unlocking rock properties using elastic multi-parameter FWI: J. Badry, J. McLeman (DUG Technology) Speaker: James McLeman

8:25 AM..... Moment tensor estimation by elastic FWI on 3-component data associated with icequakes detected on the Argentière glacier: A. Grange¹, R. Brossier¹, F. Gimbert², L. Métivier², P. Roux² (1. Univ. Grenoble Alpes; 2. CNRS) Speaker: Arthur Grange

8:50 AM.....Joint minimum entropy constraints in multi-parameter timelapse FWI of fibre-optic and geophone data: A. Ziegon, K. Innanen (University of Calgary) Speaker: Anton Ziegon



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9:15 AM.....Solving the imaging complexity via application of elastic FWI in the Nile Delta: M. Romanenko¹, V. Valler¹, M. Hart¹, J. Fruehn¹, L. Saxton¹, Q. Li², I. De Lemos² (1. TGS; 2. BP) Speaker: Matvey Romanenko

LAC 1 South American Equatorial Margin 2

Session Chairs: Joniell Borges and David Lankford-Bravo

Location: 362B

- 8:00 AM.....Source rock interval mapping on the Brazilian Equatorial Margin using seismic, well and potential field data: B. Lyra, E. Leaubon, M. Fry, D. Carruthers, M. Gatti, R. Amorim Juncken, A. Gordon, A. Lougon (Viridien) Speaker: Bruna
- 8:25 AM..... Targeting Post-Rift Stratigraphic Traps in the Ceará and Potiguar Basins: K. Reuber, P. Zalan, H. Houllevigue (TGS) Speaker: Kyle Reuber
- 8:50 AM.....Extracting regional exploration attributes and insights over the Brazilian Equatorial Margin using multi-input machine learning 2D to 3D ultrasparse reconstruction: F. Xavier De Melo, R. Ysaccis, C. Li, T. Zhao, J. Zhang, G. Zuluaga, A. Lewis, A. Zarkhidze (SLB) Speaker: Frederico Xavier De Melo
- 9:15 AM.....Regional maturation model for hydrocarbons along the Guyana-Suriname margin based on improved estimates of the thickness and thermal structure of the rifted lithosphere: K. Shipper, P. Mann (University of Houston) Speaker: Kenneth Shipper

SMT 1 Forward Modeling: Wave Equation with Vector-Reflectivity and Beyond

Session Chairs: Zongcai Feng and Shuang Gao

Location: 362C

- 8:00 AM.....First-order formulation of the Vector-Reflectivity Acoustic Wave Equation: Á. S. Soares, M. D. Sacchi (University of Alberta) Speaker: Átila Soares
- 8:25 AM.....Vector-reflectivity Elastic Wave Equation with First-order formulation: Á. S. Soares, M. D. Sacchi (University of Alberta) Speaker: Átila Soares
- 8:50 AM.....Vector reflectivity based isotropic elastic wave equation and its parameters sensitivity analysis: J. Bai, O. Yilmaz, R. Levy, Z. Koren (AspenTech) Speaker: Jianyong Bai
- 9:15 AM Efficient Seismic Wave Modeling in Complex Topography via Overset Virieux-Lebedev FDTD Scheme: Z. Zhang¹, P. Yong², J. Huang¹ (1. China University of Petroleum (East China); 2. Chinese Academy of Sciences) Speaker: Zixiao Zhang

SP 5 Denoise, and Demultiple

Session Chairs: Milos Delic and Zhimei Yan

Location: 372B

- 8:00 AM.....Marchenko and interferometry based free-surface and internal multiple elimination: A field data application: Z. Gu¹, J. Geng¹, R. Wu² (1. Tongji University; 2. University of California, Santa Cruz) Speaker: Zhiwei Gu
- 8:25 AM.....Full-azimuth internal-multiple modeling and attenuation in a deep-water OBN setting: T. d. Sales, F. Xavier De Melo, E. Saragoussi, J. Espinoza, D. Zarubov, D. Mondini, S. Trezzi (SLB) Speaker: Thais Sales
- 8:50 AM.....Robust Tau-P denoise: Z. Zhang (TGS) Speaker: Zhigang Zhang

9:15 AM.....Robust 3D projection filtering with a generalized loss function: A. Nair, M. D. Sacchi (University of Alberta) Speaker: Akash Nair

SS 19 Best of EAGE 2025

Session Chairs: Sandeep Chandola and Martin Widmaier

Location: 361B

- 8:00 AM.....4D PS-wave processing and imaging with trenched sensors at the Snorre field: M. Gawron (Viridien) Speaker: Magdalena Gawron
- 8:25 AM.....Orange and Pelotas Basins 3D Seismic Expression and **Prospectivity of Turbiditic-Contouritic Depositional** Systems: K. Rodriguez (Searcher) Speaker: Karyna Rodriguez
- 8:50 AM.....Exploring the Geothermal Recirculation Well Concept for Reusing Wells to be Abandoned: I. I. Rodriguez (Vaulted Deep) Speaker: Inti Rodriguez

9:15 AM.....Discussion

SS 20 Geologic Hydrogen Exploration 1

Session Chairs: Yaoguo Li and Mengli Zhang

Location: 371A

- 8:00 AM.....Geologic H2 Reducing the challenge to problem of chemistry: D. Wicks (ARPA-E) Speaker: Douglas Wicks
- 8:25 AM.....Predicting potential geologic hydrogen reservoir locations using MT and seismic data: M. Zhang, B. Cherkose, Y. Li (Colorado School of Mines) Speaker: Mengli Zhang
- 8:50 AM.....Petrobras' Journey into Natural Hydrogen (H2): From Curiosity to Research & Development: A. A. Ferreira¹, M. T. Romeiro², R. P. Filho², R. C. Silva², T. O. Barreto², A. A. da Silva², D. J. Miller², J. F. Sobreira², Y. d. Rocha², Y. M. Portella³, M. W. Vogado³, A. O. Gangá³, A. Svartman Dias³, F. P. Maia³, E. T. Morais³, M. F. Guimarães³, V. F. Rodrigues³, P. T. Menezes³, G. T. Silva³, M. S. Costa³ (1. PETROBRAS; 2. Petrobras Research and Development Center (Cenpes); 3. Petrobras Exploration and Production (E&P)) Speaker: Alexandre Ferreira
- 9:15 AM.....Unlocking new H2 Potential sites in Mali: New Data and preliminary Studies from a Newly Discovered Well drilled and cemented since 1987: O. Maiga (HNAT Consult & Engineering) Speaker: Omar Maiga

SS 21 SEG/AGU Hydrogeophysics: Innovative Geophysical Approaches to Improve Understanding of Environmental **Transformation**

Session Chairs: Efemena Emmanuel and Elnaz Pezeshki

Location: 372A

- 8:00 AM.....Developing innovative geophysical approaches to improve the understanding of soil-plant exchanges within the critical zone: S. Ehosioke (UC Davis) Speaker: Solomon Ehosioke
- 8:25 AM.....Geophysical Characterization of an Oil-Contaminated Spill Site: Subsurface Signals and Biogeochemical Interactions: N. Filippone¹, D. Ntarlagiannis², E. Atekwana³, S. Rossbach⁴, M. Parsell⁴, L. Slater⁵ (1. Near Surface Geophysics; 2. Rutgers University Newark; 3. University of California Davis; 4. Western Michigan University; 5. Rutgers University Newark & PNNL) Speaker: Nicolette Filippone

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- 8:50 AM.....Time-series clustering approaches for the characterization of critical zone hydrologic function across different geologic substrates: E. Oladeji, A. Parsekian, P. Chen (University of Wyoming) Speaker: Emmanuel Oladeji
- 9:15 AM..... Hydrogeophysical monitoring suggests that groundwater upwelling augments carbon ebullition in patterned pools of a northern peatland: R. J. Hess, H. Moore, L. Slater (Rutgers University) Speaker: Raymond Hess

STGM 5 Faults, Fractures, and Fluids 3

Session Chairs: Elizabeth Petrie and Lachlan Wright

Location: 362A

- 8:00 AM.....3D Reflection Seismic Analysis of the Deep-Water Orange Basin: Structural Evolution and Hydrocarbon Potential: N. Ngcobo¹, M. Manzi¹, Z. Jinnah¹, J. Bourdeau² (1. University of the Witwatersrand; 2. Geological Survey of Canada) Speaker: Nombuso Ngcobo
- 8:25 AM.....Validating Seismic Interpretations of Magma Rich Margins with Dynamic Models: Application to Pelotas and Namibia Basins: M. C. Araujo¹, M. T. Romeiro¹, M. Pérez-Gussinyé², J. García-Pintado² (1. Petrobras; 2. /MARUM-Center for Marine Environmental Sciences) Speaker: Mario Araujo
- 8:50 AM.....Basement control on salt thickness, diapirism, and contractional deformation at the Louann level, NW Gulf of Mexico: F. Rodriguez¹, M. Rowan², J. A. Muñoz de la Fuente¹ (1. Universitat de Barcelona; 2. Rowan Consulting Inc.)
 Speaker: Fernando Rodriguez
- 9:15 AM.....Reassessment of the role of fault and stratigraphic sealing in The Brent Delta Norwegian North Sea: T. Murray¹, W. Power² (1. SHSGEO; 2. Power Geoscience Pty Ltd) Speaker: Titus Murray

TL 1 Full-waveform Inversion and Analysis

Session Chairs: William Burnett and Jun Cao

Location: 360A

- 8:00 AM.....**Application of 4D FWI to the Usan 4D Streamer Surveys:**D. M. Davies¹, C. Chung¹, F. Gao¹, I. Novianti¹, r. otubusin¹, F. Elebe³, A. S. Adegbaju², A. olatunbosum², I. MMamelu⁴ (1. TGS; 2. Exxonmobil; 3. Bulwark Services; 4. NNPC) Speaker: Daniel Davies
- 8:25 AM.....Time-lapse Q full waveform inversion for CO₂-induced attenuation estimation: Q. Mao, Y. Shen (China University of Petroleum (East China)) Speaker: Qiang Mao
- 8:50 AM.....Estimation of time-lapse velocity change by multiparameter elastic FWI: X. Shang, Y. Liu, J. Liu, J. Grimm, R. Plessix, K. Wang (Shell) Speaker: Xuefeng Shang
- 9:15 AM.....**Time-lapse full-waveform inversion with uncertainty quantification:** Z. Deng, R. Orozco, A. Gahlot, F. J. Herrmann
 (Georgia Institute of Technology) Speaker: Zijun Deng

AAS 4 Anisotropy and Uncertainty

Session Chairs: Dwaipayan Chakraborty and Norbert Van De Coevering Location: 372C

- 10:20 AM...**Deviated well sonic logs, anisotropy and AVA:** S. Leaney¹, B. E. Hornby² (1. Qeye; 2. Hornby Geophysical Services, LLC) Speaker: Scott Leaney
- 10:45 AM...Seismic depth uncertainty quantification using anisotropic parametrization and adaptive Markov chain Monte Carlo

- **sampling:** S. Hu¹, E. Kazlauskas², P. Jilek², J. Zhang², G. Xia² (1. University of Texas at Austin; 2. bp) Speaker: Shuhua Hu
- 11:10 AM ... A prestack multitrace inversion method constrained by geometric attributes for anisotropic parameters: Z. Wang, X. Yin, Y. m. Yang, Z. Ma (China University of Petroleum (East China)) Speaker: Zhan Wang
- 11:35 AM ...Fluid identification in VTI media based on a modified reflection coefficient approximation: W. Xiang, X. Yin, K. Li, Z. Ma, H. Tan (China University of Petroleum (East China)) Speaker: Wei Xiang

AFR 2 African Integrated Geosciences

Session Chairs: Melissa Beaman and Kelly Poret

Location: 361A

- 10:20 AM...Mixed depositional systems along the eastern margin of South Africa: R. Africa, A. Fielies (Petroleum Agency SA)
 Speaker: Reagan Africa
- 10:45 AM...Sedimentological and Depositional Framework of the Distal Orange Basin: Interaction of MTC and turbidites in Upper Cretaceous: L. Gicquel (TotalEnergies) Speaker: Loeiza Gicquel
- 11:10 AM ...Benefits of depth imaging in "time imaging prone"
 environments: Orange Basin case study: B. Duquet, S.
 Whitehead, M. Appé, P. Charron, R. Dartigalongue, C. Fleury,
 T. Lassaigne, M. Lombardi, J. Montel, G. Maman-Koumba,
 A. Riou, D. Sun, F. Piriac (TotalEnergies) Speaker: Samuel
 Whitehead
- 11:35 AM ... Atlas and statistical overview of faults in the Niger Delta Basin, Nigeria: W. Nureni¹, O. Kobiowu¹, P. Uzoma¹, L. Abidoye¹, T. Murray², P. Macaulay¹ (1. Harvex Geosolutions; 2. SHSGEO) Speaker: Titus Murray

BM 2 Geological Controls

Session Chairs: Luke Francis and Sumit Mekherjee

Location: 351A

- 10:20 AM...**Hydrodynamic Modeling of a Late Jurassic Intrashelf Basin: Insights for Vertical and Lateral Source Rock Heterogeneity:** A. N. Wicaksono¹, G. Gairola¹, D. Guo¹,
 P. Zhan², I. Hoteit¹, V. Vahrenkamp¹ (1. Earth System
 Science and Engineering, Division of Physical Sciences
 and Engineering, King Abdullah University of Science
 and Technology; 2. Southern University of Science and
 Technology) Speaker: Akbar Wicaksono
- 10:45 AM...Full field structural framework provides insight into well planning in the Mars basin via data integration: S. M. Brown (Shell E&P Co.) Speaker: Steven Brown
- 11:10 AM ...Use of 3D flexural backstripping to quantify subsidence, paleobathymetry, and paleogeometry of regional basins:

 I. S. Loutfi¹, J. Guigon², H. Bruno², J. Araujo¹, M. C. Araujo³ (1. Petrobras; 2. Federal University of Rio de Janeiro; 3. Petrobras S.A. (Non-Author)) Speaker: Mario Araujo

11:35 AM ... Discussion

CAEV 6 Advancements in Carbonates

Session Chairs: Kelly Hattori and Christoph Lehmann

Location: 351B

10:20 AM...Outcrop-based, high-resolution stratigraphy of the Silurian-Devonian Fusselman Formation, Permian Basin



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- region: A. Roark (Chevron Americas E&P) Speaker: Andrew Roark
- 10:45 AM...Compositional and structural controls on reservoir heterogeneity in carbonate formations: Insights from 3D seismic, elemental spectroscopy, and borehole image analysis: E. Petersohn¹, T. Mukerji¹, C. Cavalcante², H. Fossen² (1. Stanford University; 2. University of Bergen) Speaker: Eliane Petersohn
- 11:10 AM ... Application of random forest regression for predicting heterogeneous fracture-cave carbonate reservoirs: H. Wang², L. Zhou³, L. Zhao¹, J. Wang¹, Q. Chen⁴, B. Liu⁴ (1. RIPED, CNPC; 2. Southwest Petroleum University, RIPED; 3. Southwest Petroleum University; 4. NWGI, RIPED, CNPC) Speaker: Honggiu Wang
- 11:35 AM ... Quantitative Bathymetry Reconstruction of the Late Jurassic Arabian Intrashelf Basin: A. N. Wicaksono, V. Vahrenkamp (King Abdullah University of Science and Technology (KAUST)) Speaker: Akbar Wicaksono

DMLA 3 Automation and Digitalization

Session Chairs: Pandu Devarakota and Xuqing Wu

Location: 372A

- 10:20 AM...Leveraging LLMs for scalable seismic metadata extraction from unstructured SEG-Y text headers: E. Tian, A. Sansal, A. Valenciano, B. G. Lasscock, S. Rajendran (TGS) Speaker: **Edward Tian**
- 10:45 AM...MDIO v1: Schematizing seismic data for AI and processing: B. Michell, A. Sansal, B. G. Lasscock, M. Roberts (TGS) Speaker: Brian Michell
- 11:10 AM ...Rock classification using conventional and multispectral drone imagery together with machine learning: D. Crisafulli, M. M. Morales, C. Neal, T. Larson, C. Torres-Verdin (The University of Texas at Austin) Speaker: Domenico Maria Crisafulli
- 11:35 AM ... Decision transformers: Enhancing the performance of geophysical control for geological carbon storage: K. Noh, A. Swidinsky (University of Toronto) Speaker: Kyubo Noh

FWI 6 Case Studies from the Gulf of America

Session Chairs: Aravind Nangarla and Xiaolei Song

Location: 370A

- 10:20 AM...Tackling subsalt complexity with elastic FWI using longoffset, low-frequency sparse OBN data: B. Wray, D. S. Dangwal, Z. Wang, X. Zhang, D. Liu, M. Graham, H. Zhu (Viridien) Speaker: Brad Wray
- 10:45 AM...Well log-derived empirical Vp-Vs relationship for elastic full-waveform inversion in northern Gulf of America: H. Li, L. Xie, B. Bai, Y. Yu (SLB) Speaker: Hongyan Li
- 11:10 AM ... Unlocking extra value from vintage WAZ data using EFWI and ERTM: A subsalt imaging case study in the GOA: B. Deng¹, K. Kanakamedala¹, F. Gao¹, J. Mei¹, J. Blanch², M. Cahoj², H. Vescogni² (1. Viridien; 2. Woodside Energy) Speaker: Joakim Blanch
- 11:35 AM ... Advanced imaging technologies reveal new insights in the mature Neptune field: L. Sang¹, C. Yin¹, J. M. Guynes¹, M. R. Etienne¹, Y. Chang², N. Fiptiani², H. Gao³, S. Strauss³, C. Chen3, Z. Wei3 (1. Talos Energy; 2. Repsol Exploration and Production; 3. Viridien) Speaker: Ligin Sang

LAC 2 South Atlantic Offshore 2

Session Chairs: Christine Piela and Muni Zulkifli

Location: 362B

- 10:20 AM...Crustal structure and predictive hydrocarbon modeling of Early Cretaceous source rocks in upper slope and deepwater settings of Uruguay: D. S. Maya Ortiz, P. Mann (University of Houston) Speaker: Daniel Maya Ortiz
- 10:45 AM...Appraisal while developing Payara field, offshore Guyana: Derisking secondary resources via development drilling and early flowback to accelerate reservoir production: J. A. Violet, M. Q. Do, R. Ruppert (ExxonMobil) Speaker: Jacob Violet
- 11:10 AM ...3D basin modeling of the Santos-Campos-Espirito Santo combined salt basin using geochemical well data for source rock characterization: S. Cornelius (University of Houston) Speaker: Sharon Cornelius
- 11:35 AM ... Structural evolution of the Brazilian rifted passive margin in Campos basin: Timing and kinematic relationships of the rift system and salt tectonics: R. Beltran¹, P. Mann¹, A. R. Mora² (1. University of Houston; 2. ECOPETROL S.A.) Speaker: Ruth Beltran

PANEL 2 New Energies and Energy Transition: CCS Economics, Environmental Aspects, and Regulatory Frameworks

Moderator: Lorraine Chambon

Location: 362A

Panelists: Wadii El Karkouri (TGS), Ben Grove (Clean Air Task Force), Sarah Forbes (United States Department of Energy), Jennifer L Wilding (Chevron), Sandeep K. Chandola (PETRONAS)

SP 6 Deblending

Session Chairs: Arash Jafargandomi and Abhishek Raj

Location: 372B

- 10:20 AM...Deblending 3D NAZ data in high sea surface current environments: C. Udengaard, L. Alexander, L. Gabioli, S. Cochran, M. Cvetkovic, D. Unger (TGS) Speaker: Carsten Udengaard
- 10:45 AM...The accuracy of deblending low-frequency signals: R. L. Abma (University of Texas at Austin) Speaker: Raymond
- 11:10 AM ... Deblending of long-offset, low-frequency sparse OBN data under multiple types of interference: N. Zhao, X. Zhang, Z. Wang, B. Wray, A. Hao, H. Zhu (Viridien) Speaker: Xue Zhang
- 11:35 AM ... Self-supervised Training for Simultaneous Interpolation and Deblending of Blended Data: L. Zifei, S. Zu, W. Shen, J. Kang, J. Wang (Chengdu University of Technology) Speaker: Li Zifei

SS 22 2024 SEG 4D Forum: From 4D Acquisition to Seismic **History Matching**

Session Chairs: Mariana Gherasim and David Johnston

Location: 360A

- 10:20 AM...Monitoring pre-salt reservoirs with hybrid acquisitions and 4D FWI: G. Brando, F. Rudrigues, D. Albuquerque, D. Froes, B. Huard, L. Cypriano, R. Pereira, A. Khalil (Viridien) Speaker: Gabriel Brando
- 10:45 AM...4D FWI evolution of learnings from a 4D OBN application: D. M. Davies¹, D. Cavalin¹, F. Gao¹, L. Saxton¹, M. Romanenko¹,

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- E. Cho¹, P. Tillotson², L. Wang² (1. TGS; 2. bp) Speaker: Daniel Davies
- 11:10 AM ... WAG'ing the dog: Engineered signals to calibrate 4D expectations at Liza, Offshore Guyana: K. A. Wagenvelt¹, D. Byrapatna², P. Singh¹, M. Stone¹, C. Fasulo¹, T. Hidayah¹, R. Wachtman¹, T. Ames¹, W. Burnett¹, S. Ou¹, C. Tapie¹, M. Helgerud¹, D. Chu¹, M. Sengupta¹ (1. ExxonMobil; 2. Carnegie Mellon University) Speaker: Kirk Wagenvelt
- 11:35 AM ...An integrated workflow for history matching production and 4D seismic data Field case application to a deepwater oil reservoir: T. Yeh, S. Bakku, Y. Hwang (Shell) Speaker: Tzu-hao Yeh

SS 23 Cryogeophysics: Near Surface Geophysical Tools to Elucidate the Cryosphere - CANCELLED

SS 24 Black Shales to Brines: Unconventional Sources for Critical Elements in the Energy Transition

Session Chairs: Ashley Douds and Susan Nash

Location: 362C

- 10:20 AM...Black Shales as Unconventional Resources for Critical Elements: A Geochemical Perspective: S. Sahoo¹, A.

 Zumberge², A. Chappaz³, G. Gilleaudeau⁴, G. Spence², J.

 M. Bloxson⁵, K. Henderson⁶, N. Dasˀ, S. Bhattacharya⁶ (1.

 SHRI; 2. GeoMark; 3. Central Michigan University; 4. George Mason University; 5. Stephen F. Austin State University; 6.

 McGill University; 7. LithoAyas; 8. GSI Environmental Inc)

 Speaker: Swapan Sahoo
- 10:45 AM...Exploration and extraction of iodine from produced waters in the Anadarko Basin: A. Gordon (Iofina) Speaker: Andrew Gordon
- 11:10 AM ...The New Oil: Liquid Mining and Direct Lithium Extraction from Produced Water: H. D. Lebit (Alma Energy) Speaker: Hermann Lebit
- 11:35 AM ...Lessons learned from applying Ensemble Tree Machine
 Learning to the mapping of lithium and other constituents
 in groundwater: K. Knierim, K. Belitz, P. Stackelberg (U.S.
 Geological Survey) Speaker: Katherine Knierim

SS 25 Geologic Hydrogen Exploration 2

Session Chairs: Travis McLing and Mengli Zhang

Location: 371A

- 10:20 AM...Geochemical exploration techniques to quantify hydrogen generation potential in complex geologic terranes: T. Larson, E. Ukar, O. Gelencser, T. Zhang, A. Fall (University of Texas at Austin) Speaker: Toti Larson
- 10:45 AM...Crosswell Electromagnetic Method for Monitoring
 Serpentinization During Geological Hydrogen Production:
 E. Um¹, D. Alumbaugh¹, M. Zhang², J. Capriotti², N.
 Perkovich², Y. Li² (1. Lawrence Berkeley National Laboratory;
 2. Colorado School of Mines) Speaker: Evan Um
- 11:10 AM ...Insights into iron-rich ultramafic rock properties and serpentinization-driven hydrogen generation potential: N. Yuan, R. Czarnota, H. Rahnema (New Mexico Institute of Mining and Technology) Speaker: Robert Czarnota
- 11:35 AM ...Quantitative analysis and rock physics relations for natural hydrogen prospecting: Y. Mathur, T. Mukerji (Stanford University) Speaker: Yashee Mathur

SS 26 Road Ahead to Quantum Computing in Geosciences

Session Chairs: Tapan Mukerji and Mrinal Sen

Location: 371B

- 10:20 AM...The future of quantum computing for geophysical inversion: D. Vashisth¹, R. Lessard², R. Sharma³, T. Mukerji¹, M. Sen⁴ (1. Stanford University; 2. SLB; 3. Indian Institute of Technology (Indian School of Mines) Dhanbad; 4. The University of Texas at Austin) Speaker: Divakar Vashisth
- 10:45 AM...Beyond Classical Simulations: Quantum Approaches to Fluid Flow in Geophysical Systems: P. Tahmasebi (Colorado School of Mines) Speaker: Pejman Tahmasebi
- 11:10 AM ...Efficient quantum algorithms for flow in geologic fracture networks via block encoding: D. O'Malley, J. Golden (Los Alamos National Laboratory) Speaker: Daniel O'Malley
- 11:35 AM ...Crosswell traveltime inversion using a quantum computing method: H. Nguyen, A. Tura (Colorado School of Mines)

 Speaker: Hoang Anh Nguyen

AAS 5 Machine Learning 1

Session Chairs: Samik Sil and Dileep Tiwary

Location: 372C

- 1:20 PM.....Automated QI Workflow for Seismic Interpretation:
 Integrating Automated Depth Calibration, DNN-Based
 Wavelet Estimation, and End-to-End Seismic Inversion: U.
 Lim, C. Hagbo (Chevron U.S.A. Inc.) Speaker: Un Young Lim
- 1:45 PM.....Enhanced Prediction of Total Organic Carbon in Shale Gas
 Reservoirs using Extended Feature Variables and Random
 Forests: J. Gao, J. Gui, S. Li, H. Li, X. Guo (Research Institute
 of Petroleum Exploration & Development-Northwest (NWGI),
 PetroChina) Speaker: Jianhu Gao
- 2:10 PM.....High-precision facies-controlled modeling method and application based on intelligent well-seismic transfer learning: X. Wang, M. Jia, A. Wang, G. Zhao, C. Ma, C. Zhang (BGP, CNPC) Speaker: Xi Wang
- 2:35 PM.....Enhancing AVA Inversion Accuracy through Deep Neural
 Network Bootstrapping (BootNet): A Novel Approach for
 Quantifying Data Uncertainty: U. Lim, R. Cardona (Chevron
 U.S.A. Inc.) Speaker: Un Young Lim

ACQ 1 Marine Ocean Bottom Nodes 2

Session Chairs: Dalila Cherief and Carsten Udengaard

Location: 361B

- 1:20 PM....."Drop & Pop" 3C submersed floating OBN for cost-effective marine seismic acquisition: D. Lecerf, E. Nielsen (TGS)

 Speaker: Didier Lecerf
- 1:45 PM.....The On-demand OBN (OD OBN) development through comprehensive bench and field testing: J. L. Lopez¹, S. Grandi², V. E. Beal³, G. Mangano⁴, F. de Oliveira³, A. dos Santos³, G. de Almeida³, B. Barbosa³, F. Lima Santos⁴, D. Gjini⁴, E. Alexandre⁵, T. Miranda⁴, A. A. da Silva⁶, B. Radefeld⁶, R. Braganca⁶, S. Dunn⁴ (1. Shell Brasil Petroleo Ltda; 2. Shell International Exploration & Production; 3. SENAI CIMATEC; 4. Sonardyne; 5. Sonardyne Brasil Ltda.; 6. Petrobras) Speaker: Jorge Lopez
- 2:10 PM.....Breaking the Subsalt Image Resolution Barrier: Insights from an Ultra-High Density Deepwater Ocean Bottom
 Nodes Experiment in Thunder Horse, GoA: G. Xia, J. Etgen,
 Z. Li (bp) Speaker: Ganyuan Xia



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2:35 PM.....Ocean bottom nodes survey in the Tupi field: Design, operation and results: J. Borba, M. P. De Almeida Junior, D. Santos, H. Teixeira, D. Dos Santos Marques, M. S. Costa, J. M. Nunes Cruz, F. Apolonio (Petrobras) Speaker: Jose Borba

DMLA 4 Generative and Foundation Models 2

Session Chairs: Felix Herrmann and Jie Qi

Location: 372A

- 1:20 PM.....Continuous vs. categorical encodings: Channel orientation-aware self-attention conditional generative adversarial networks: A. Merzoug, M. Pyrcz (University of Texas at Ausin) Speaker: Ahmed Merzoug
- 1:45 PM.....Well2Flow: Reconstruction of reservoir states from sparse wells using score-based generative models: S. Zeng, H. Li, A. Gahlot, F. J. Herrmann (Georgia Institute of Technology) Speaker: Shigin Zeng
- 2:10 PMSubsurface Facies Modeling with Computational
 Stratigraphy (CompStrat) and Hierarchical Generative
 Adversarial Networks (GAN): E. Maldonado Cruz, T. Sun, L.
 Li, J. De La Colina (Chevron) Speaker: Eduardo Maldonado
 Cruz
- 2:35 PM.....Meta-Continual Learning Framework for Seismic
 Characterization: Advancing Specialized Models Beyond
 Pre-training: S. Sinan¹, R. Harsuko² (1. Saudi Aramco;
 2. King Abdullah University of Science and Technology)
 Speaker: Salma Sinan

EMME 1 Exploration and Development: Middle East and Europe

Session Chairs: Karelia La Marca and Christoph Lehmann

Location: 351B

- 1:20 PM.....War and energy: The battle to keep gas flowing in Ukraine
 Keynote: M. Vityk (Ukrgasvydobuvannya JSC, Naftogaz
 Group) Speaker: Maxim Vityk
- 1:45 PM.....**Tectonics and Sedimentation in the Rioni Basin, Offshore Georgia, Eastern Black Sea:** D. Mitra¹, I. Cemen¹, R. Spiller²
 (1. The University of Alabama at Tuscaloosa; 2. Azimuth
 Energy and Minerals LLC) Speaker: Dipanjan Mitra
- 2:10 PM.....Salt-involved rift tectonics in the northern Egyptian Red
 Sea: Implications for exploration: M. Rowan¹, R. Benbella
 Nafea², A. Abdel Aal², V. Robertson², M. El-Toukhy² (1. Rowan
 Consulting Inc.; 2. SLB) Speaker: Mark Rowan
- 2:35 PM.....Structural controls and reservoir character of syn-rift carbonate rimmed platforms: Saudi Arabian Red Sea Rift margin: R. E. Collier, M. Alsafri, P. Glover (University of Leeds) Speaker: Richard Collier

FWI 7 Case Studies 3

Session Chairs: Anu Chandran and Gilles Lambaré

Location: 370A

- 1:20 PM.....Building a velocity model in a frontier exploration area of the Red Sea using elastic full-waveform inversion and potential field data: W. Ibanez Jacome, K. Detro, K. Palkowsky, J. Zhang, V. Robertson, K. Glaccum, F. Ceci, G. Bancala, L. De Luca, A. Sirtori (SLB) Speaker: Wilson Ibanez Jacome
- 1:45 PM Assessing CO₂ sequestration monitoring using 4D frequency-domain VSP-FWI: A synthetic study configured for the Snowflake dataset: J. Li, K. A. Pike, K. Hall, K. Innanen (University of Calgary) Speaker: Jinji Li

- 2:10 PM.....**Multi-parameter FWI for structural imaging, amplitude fidelity and reservoir properties:** Ø. Korsmo¹, S. Crawley¹,
 N. Chemingui¹, D. Whitmore¹ J. Brittan² (1. TGS; 2. TGS
 (Non-Author)) Speaker: John Brittan
- 2:35 PM.....Reviving four-decade-old 2D land seismic data for onshore exploration in Middle East with latest seismic processing technologies: k. Guo¹, T. Cheng¹, X. Feng¹, S. Jiang², H. Zhao¹, L. Zhuping¹ (1. CNOOC international Limited; 2. BGP Inc., CNPC) Speaker: Liu Zhuping

GM 1 Inversion and Artificial Intelligence in Potential Fields

Session Chairs: Noah Perkovich and Antony Price

Location: 371A

- 1:20 PM.....ResDM-Net++: An Enhanced Diffusion Model for Gravity
 Inversion: M. Xian¹, Z. Xu¹, y. zhang¹, x. wang¹, M. Zhdanov²
 (1. Chengdu University of Technology; 2. University of Utah)
 Speaker: Minghao Xian
- 1:45 PM.....Geophysical Control of Water-Alternating-Gas Operations for Carbon Storage using Deep Reinforcement Learning: E. Fosu-Duah¹, K. Noh¹, L. Zerpa², A. Swidinsky¹ (1. University of Toronto; 2. Colorado School of Mines) Speaker: EvelynLove Fosu-Duah
- 2:10 PM.....Improving spatial resolution of GRACE-derived terrestrial water storage anomalies in the Tibetan Plateau using deep learning: J. Chen¹, L. Wang¹, C. Chen¹, J. Sun² (1. China University of Geosciences (Wuhan); 2. University of Houston) Speaker: Jun Chen
- 2:35 PM.....Insights into the effect of upward continuation heights on the susceptibility modeling of near-surface infrastructures from regional magnetic data: A case of Stockholm's underground metro: E. D. Alofe¹, M. Bastani², A. Tryggvason¹ (1. Uppsala University; 2. Geological Survey of Sweden) Speaker: Emmanuel Alofe

LAC 3 Frontier Basins 2

Session Chairs: Chris Bexfield and Maria Madariaga

Location: 362B

- 1:20 PM.....Can Foz do Amazonas Basin follow the greatness of oil discovery pathways of Santos Pre-salt carbonates and Guyana Cretaceous Turbidity supergiant provinces in the South Atlantic Realm?: M. R. Mello¹, W. Peres¹, C. Beisl¹, L. Gamboa², C. Silva², J. Dahl³, J. M. Moldowan³ (1. Brazilpetrostudies; 2. UFF-LAGEMAR; 3. Biomarker Technologies) Speaker: Marcio Mello
- 1:45 PM.....Integrated Geological Modeling of the Sirius Discovery,
 Offshore Colombia: F. A. Lozano², C. J. Sanchez², J.
 Rodriguez², A. Penna¹, A. Velandia², J. Buenaventura², C.
 Arguello² (1. Ecopetrol; 2. Ecopetrol) Speaker: Felipe Lozano
- 2:10 PM.....Examining the exploration potential of the Equatorial
 Margin: Reviewing the Brazilian and African conjugate:
 C. Gravestock, C. Bradley, R. James (Halliburton) Speaker:
 Christopher Gravestock
- 2:35 PM.....**AVO analysis revealing opportunities in new seismic surveys Foz do Amazonas, Brazil:** E. Leaubon¹, B. Lyra¹, R.
 Amorim Juncken¹, M. Fry¹, A. Gordon¹, M. Gatti¹, A. Lougon¹,
 C. Saudino² (1. Viridien; 2. Eliis) Speaker: Eduardo Leaubon

Wednesday, 27 August

NS 1 Advances in Near Surface Seismic Applications

Session Chairs: Sherif Hanafy and Julian Ivanov

Location: 361A

- 1:20 PM.....3D beamforming for surface wave dispersion analysis and inversion in complex land seismic data: I. Sanchez¹, D.

 Trad¹, W. Agudelo² (1. University of Calgary; 2. Ecopetrol)

 Speaker: Ivan Sanchez
- 1:45 PM..... Wellbore-supervised learning for 3D seismic velocity model building: D. Colombo, E. Turkoglu, E. Sandoval Curiel, H. Alqatari, T. Y. Alyousuf (Saudi Aramco) Speaker: Daniele Colombo
- 2:10 PM.....A comparative analysis of multiple seismic methods for blind near-surface data in a sandy environment: D. Borisov¹, Y. Zhang¹, J. Ivanov¹, S. L. Peterie¹, A. Hoch¹, S. Abbasi¹, R. D. Miller¹, S. Sloan² (1. Kansas Geological Survey; 2. US Army Engineer Research & Development Center) Speaker: Dmitry Rorisov
- 2:35 PM.....Monitoring structural health of wind turbine using ambient seismic noise: S. Mukherjee, Y. Li (Purdue University)
 Speaker: Sayan Mukherjee

RC 1 Geomodelling

Session Chairs: Henry Campos and Carla Carvajal

Location: 362C

- 1:20 PM.....Multi-Scale Fracture Prediction Based on Digital Outcrops with Deep Learning Method: Z. Liu, Q. Zhao, J. Wu, W. Lin (PetroChina Research Institute of Petroleum Exploration and Development) Speaker: Zhaolong Liu
- 1:45 PM.....Enhanced GANSim for geomodelling of multi-scenario nonstationary reservoirs: S. Song¹, T. Mukerji¹, C. Scheidt¹, H. Alqassab², M. Feng² (1. Stanford University; 2. ExxonMobil) Speaker: Suihong Song
- 2:10 PM.....3D Facies Modelling Workflow of a Barrier Island
 Environment: A Multi-Point Statistics Approach with
 Unconformity Uncertainty Handling: A. Palencia (HOCOL
 E&P) Speaker: Alejandro Palencia
- 2:35 PM.....Integrated subsurface workflow for fast and reliable production forecasting: M. Amaru¹, S. Vitel¹, A. Rey¹, P. Muron¹, A. Parrish¹, Y. Wang¹, A. Erendi¹, J. Amiotte¹, B. Zouari², K. Monastyrev², B. Baddeley², M. Wakefield² (1. Chevron; 2. SLB) Speaker: Maisha Amaru

RP 1 Honoring Amos Nur

Session Chairs: Ronny Hofmann and Teng Long

Location: 371B

- 1:20 PM.....**Understanding Brown and Korringa (1975):** L. Thomsen (University of Houston) Speaker: Leon Thomsen
- 1:45 PM.....On the utility of the shear modulus in rock physics model development: Robust workflows for compressible high porosity siliciclastic reservoirs: M. Kittridge, A. Maldonado (Oxy) Speaker: Mark Kittridge
- 2:10 PM.....In-situ observation of the complex physics behind
 earthquake interaction with a shallow segment of the San
 Andreas Fault: S. Glubokovskikh, B. Lyu, M. Robertson,
 A. Nayak, C. Ulrich, P. Cook, Y. Tanaka, Y. Guglielmi
 (Lawrence Berkeley National Laboratory) Speaker: Stanislav
 Glubokovskikh

2:35 PM.....Effect of viscosity on wave propagation: Poroelasticity versus viscoelasticity: B. Gurevich¹, S. Glubokovskikh² (1. Curtin University; 2. LBNL (Non-Author)) Speaker: Stanislav Glubokovskikh

SILIC 1 Deepwater Sedimentary Systems

Session Chairs: Neal Auchter and Philomena Gan

Location: 351A

- 1:20 PM.....Supercritical flow structures in a Cretaceous submarine channel-lobe transition zone, Point Loma Formation, California: L. Saifudin, Z. Jobe, P. Plink-Bjorklund, A. Slootman (Colorado School of Mines) Speaker: Zane Jobe
- 1:45 PM.....First ever 3D seismic insights into the southern Brazil

 Pelotas Basin deep water petroleum systems: K. Rodriguez,

 N. Hodgson (Searcher Seismic) Speaker: Karyna Rodriguez
- 2:10 PM.....Analog-based Reservoir Quality Prediction of Cretaceous to Miocene Sandstones in the GoA: Impact of Provenance, Burial, Thermal Anomalies, and Depositional Facies: A. Ozkan (Shell) Speaker: Aysen Ozkan
- 2:35 PM.....Inception and Maintenance of Submarine Channels formed by Turbidity Currents: A. Wahab¹, M. Shringarpure¹, K. Straub² (1. ExxonMobil; 2. Tulane University) Speaker: Abdul Wahab

SP 7 Imaging Signal Enhancement

Session Chairs: Sriram Arasanipalai and Daniel Rocha

Location: 372B

- 1:20 PMJoint low-rank-based near-surface correction and reconstruction of land data: A. M. Alfaraj¹, E. Verschuur² (1. Saudi Aramco; 2. Delft University of Technology) Speaker: Ali Alfaraj
- 1:45 PMSeismic Scaling Corrections Using Dual Patch Eigenimage Filters: J. Gallop (Ikon Science) Speaker: Jeremy Gallop
- 2:10 PM.....Al-driven post-stack seismic quality enhancement and its impact on interpretability and prospect evaluation of deep horizons in brownfield: T. Eliva¹, O. Mammadov¹, H. Asgarov¹, R. Malikov¹, I. Shahsenov¹, N. Kuramshina², K. Aliyev² (1. WAVERITY; 2. GL) Speaker: Kenan Aliyev
- 2:35 PM.....Improving Permian Basin imaging with PSDM residual trim statics: T. Li, R. Holt (Oxy) Speaker: Tianjiang Li

SS 27 Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 1

Session Chairs: Charles Sternbach and Mike Forrest

Location: 360A

- 1:20 PM.....From Moosehead to Mopane: Access to high quality data as a key driver for successful DHI led exploration in Namibia:

 T. Martins, D. A. Rodrigues, R. Muggli, F. Silva, J. R. Rocha,
 B. Pina (Galp) Speaker: Teresa Martins
- 2:10 PM.....Sirius Gas Discovery Geological Setting and Caribbean
 Offshore Exploration Historical Perspective: A. Velasquez¹,
 H. Nino¹, E. Jaimes¹, L. Figuera¹, M. V. Galvão², C. Kazzuo²,
 J. Mosquera² (1. Ecopetrol S.A.; 2. Petrobras) Speaker:
 Antonio Jose Velasquez
- 2:35 PM.....Colombia and Sirius Discovery: Unveiling a New Frontier in Gas Exploration: M. V. Galvão (Petrobras) Speaker: Marcos Galvão



Wednesday, 27 August

SS 28 Leveraging Technology for Sustainability

Session Chairs: Matthias Imhof and Yi Shen

Location: 362A

1:20 PM.....USDW Testing and Monitoring: Integrated Strategies for Verifying Non-Endangerment at Carbon Capture and Storage Sites: K. C. Niamike, D. Kingham, L. Molofsky, T. McGuire (GSI Environmental Inc.) Speaker: Kouassi Niamike

1:45 PMCo-location of offshore energy systems, insights from recent studies: E. Contreras, M. Santra, Y. Sanchez-Hernandez (Fugro) Speaker: Edgar Contreras

2:10 PM.....Geophysical Technologies: Key Enablers to CCS and Energy Transition in Malaysian Landscape: S. Chandola, L. MacGregor (PETRONAS) Speaker: Sandeep Chandola

2:35 PM.....Sustainable Solutions for Seismic Imaging: A. Crook (OptiSeis Solutions Ltd.) Speaker: Andrea Crook

AAS 6 Machine Learning 2

Session Chairs: Reza Torabi and Simon Voisey

Location: 372C

3:40 PM.....Improve seismic inversion quality using a neural network and fast stochastic workflow in relative geologic time: A Midland Basin case study: B. de Ribet, D. Mouliere-Reiser, Z. Vera (AspenTech) Speaker: Zahary Vera

4:05 PM.....Application of a semi-supervised Self-Organizing Map algorithm for seismic facies classification using inversion attributes: T. Gardashli, R. Baillet, N. Desgoutte (Beicip Franlab) Speaker: Turgay Gardashli

4:30 PM.....Pore pressure imaging in the over-pressurized facies using the ANN techniques through seismic inversion and well-log approach: D. Singha, L. Abbas (IIT Kharagpur) Speaker: Dip Kumar Singha

4:55 PM.....Efficient and scalable posterior surrogate for seismic inversion via wavelet score-based generative models: E. Cirakman², H. Erdinc¹, F. J. Herrmann¹ (1. Georgia Institute of Technology; 2. Istanbul Technical University) Speaker: Huseyin Tuna Erdinc

ACQ 2 Innovation in Source and Sensors

Session Chairs: Zhehao Li and Marc Rocke

Location: 361B

3:40 PM.....Nine component DAS acquisition on experimental multicomponent sensors: K. Hall¹, K. Innanen¹, D. Lawton² (1. University of Calgary; 2. Carbon Management Canada) Speaker: Kevin Hall

4:05 PM.....Tuned Pulse Source shallow water seismic survey: J. Large¹, S. Ronen¹, P. Wentzler¹, M. Benaniba¹, J. Aznar¹, C. Walker², C. Karri², T. KAUR RAJASANSI HARNAR SINGH³, S. Shukri³ (1. Sercel; 2. SAExploration; 3. Petronas) Speaker: Shuki Ronen

4:30 PM.....Ultralow frequency-enhanced source for OBN survey design and implementation: F. Diagon, B. Esinov, A. Zarkhidze, T. Allen, M. Vassallo, M. Salgadoe, S. Bernard (SLB) Speaker: Franck Le Diagon

4:55 PM.....Triple source Operation with a Tuned Pulse Source: J. Large, S. Ronen, P. Wentzler, M. Benaniba, J. Aznar (Sercel) Speaker: Paul Wentzler

DMLA 5 Seismic Interpretation 2

Session Chairs: Quentin Corlay and Fan Jiang

Location: 372A

3:40 PM.....Vision Transformer with Affinity Similarity Model for Interactive Seismic Interpretation: F. Jiang, K. Osypov, S. Singh (Halliburton) Speaker: Fan Jiang

4:05 PM.....Interactive machine learning for assisted geoscience interpretation: S. Singh, K. Osypov, F. Jiang (Halliburton) Speaker: Satyan Singh

4:30 PM.....How ViTs Scale on Seismic Data: A Study on Model and Data Trade-offs: A. Sansal, B. G. Lasscock, A. Valenciano (TGS) Speaker: Altay Sansal

4:55 PM.....Detecting geological features in seismic data using Segment Anything Model 2 across multiple datasets: G. T. Custodio¹, T. Y. Aoyagi¹, H. F. Saar¹, C. F. da Silva¹, N. F. Guerra¹, A. Heleno¹, C. T. Gamba¹, C. L. da Silva¹, D. B. Virissimo¹, E. M. Sales¹, F. S. Silles¹, L. G. Netto¹, O. C. Gandolfo¹, R. A. Rubo² (1. Institute For Technological Research; 2. PETROBRAS) Speaker: Thiago Aoyagi

EMME 2 Regional Geology of the Middle East

Session Chairs: Jeffrey Duxbury and Christoph Lehmann

Location: 351B

3:40 PM.....Outcrop Analogs for the Lower Cretaceous Kharaib and Shuaiba Formations, UAE: Similarities and Differences: C. T. Lehmann (BP) Speaker: Christoph Lehmann

4:05 PM.....Advanced Earth model building during iterative imaging updates using machine learning from an East Mediterranean basin case study: D. F. Fernandez¹, M. Karer¹, G. Menzel-Jones¹, G. Saleh¹, R. King¹, A. Menari¹, A. El-Midany¹, E. Galvan¹, A. Moussa¹, O. Hossam¹, A. Alemam¹, A. Mamdouh², R. Seddeeq², M. Radwan² (1. SLB; 2. EUG) Speaker: Dan Fernandez

4:30 PM.....Implications of escape tectonics for the late Ediacaran basins of the Arabian plate: S. Stewart (Saudi Aramco) Speaker: Simon Stewart

4:55 PM.....A stratigraphic review of the post-Hercynian to pre-Khuff: Identifying new exploration opportunities: C. Gravestock, R. James, M. Simmons (Halliburton) Speaker: Christopher Gravestock

FWI 8 Imaging

Session Chairs: Kaushik Banerji and Zedong Wu

Location: 370A

3:40 PM.....FWI angle gathers selective stacking using multi-survey data at Kaskida field: H. Jin, S. Luo, X. Shen, G. Xia, R. Chrisman (bp) Speaker: Hu Jin

4:05 PM.....Shallow water multi-parameter FWI imaging in Equatorial Guinea: F. Mancini¹, A. Pavlow¹, J. Chaloner¹, M. Pomfret¹, H. Dodwell², J. Shinol³, M. Lahr³, R. Christensen³, S. Ela Ondo Abegue4 (1. DUG Technology; 2. Panoro Energy ASA; 3. Kosmos Energy Ltd.; 4. Torre Gepetrol) Speaker: Fabio

4:30 PM.....Reservoir Characterization Using Multi-Parameter FWI with Robust Angle Gathers: N. Chemingui, S. Crawley (TGS) Speaker: Nizar Chemingui

4:55 PM.....Prestack full waveform impedance inversion and its ultra-high-frequency compressive sensing applications:

Wednesday, 27 August

L. Duan¹, Z. Zhou¹, H. Yin¹, Y. Zhang¹, D. Arnold², S. A. Al Mesaabi², M. Mahgoub², G. Cambois² (1. BGP, CNPC; 2. ADNOC) Speaker: Lian Duan

GM 2 Interpretation and Case Studies

Session Chairs: Robert Crummett and Sihong Wu

Location: 371A

- 3:40 PM.....Application of Integrated Geophysical Survey in Deep Hydrocarbon Exploration: S. Bai, Z. Yang, X. Liu, B. Tang, X. Wu, G. Chen (BGP Inc., CNPC) Speaker: Shiyun Bai
- 4:05 PM.....Distribution of Mafic and Ultramafic Rocks in the Southern
 Pecos Mafic Intrusive Complex, Texas: Assessing CO₂
 Mineralization and Hydrogen Generation Potential: R.
 Arasada, S. Bhattacharya, E. Ukar (Bureau of Economic Geology, The University of Texas at Austin, United States)
 Speaker: Rama Chandrudu Arasada
- 4:30 PM.....Magnetic field surveys for legacy oil and gas infrastructure at Stonewall Jackson Lake, WV: C. Kohnke, V. Gorantla, J. Sams, R. W. Hammack (National Energy Technology Lab) Speaker: Colton Kohnke
- 4:55 PM.....**Mojave Desert aquifer modeling via 3D gravity inversion:**D. E. Bird¹, K. Coulibaly³, T. Stieglitz², J. R. Jansen², K. Marberry² (1. Bird Geophysical; 2. Collier Geophysics; 3. Mojave Water Agency) Speaker: Dale Bird

LAC 4 Mexican Basins

Session Chairs: Cucha Lopez and Andrew Royle

Location: 362B

- 3:40 PM.....Paleogene stratigraphic evolution of the Campeche sub-basin, Mexico: Megabreccias, monster deepwater channels/distributary lobes, mass transport complexes, and FLTs ("funny looking things"): K. Ehman, C. Holmes (Chevron) Speaker: Kenn Ehman
- 4:05 PM.....New insights into upper jurassic Smackover play extension towards northeastern México: Southern Burgos Basin: J. Roman-Ramos¹, C. Bonifacio², D. Ramirez² (1. PEMEX; 2. Jaguar E&P) Speaker: Carlos Bonifacio
- 4:30 PM.....Integrating seismic and frequency analysis for reservoir characterization in a structurally complex onshore field:

 L. D. Romero, R. Larrazabal (Halliburton) Speaker: Liscar Romero
- 4:55 PM.....The petroleum system and evolution of the deepwater
 Sureste Basin, Mexico: Recent lessons learned and
 implications for future exploration: S. C. Leslie, M. Bonora,
 M. Yanez Luciani, M. Gonzalez, M. Fleming, J. Barbato, M.
 Bonelli, C. Jaeger, A. Vayssaire, D. A. Armitage (Repsol USA)
 Speaker: Stephen Leslie

NS 2 Near Surface Electrical and Electromagnetics

Session Chairs: Solomon Ehosioke and Lindsey Heagy

Location: 361A

3:40 PM.....Initial results of a frequency domain AEM survey over continuous permafrost along the Inuvik-Tuktoyaktuk corridor, NWT, Canada: M. Couto¹, L. Heagy¹, K. Moshtaghian², A. Alvarez², M. Unsworth², A. Chiasson², M. Lorry², S. Kokelj³, A. Rudy³, D. G. Froese² (1. University of British Columbia; 2. University of Alberta; 3. Northwest Territories Geological Survey) Speaker: Marco Couto

- 4:05 PM.....Geophysical delineation of sandstone-hosted uranium deposits in Shirley Basin, WY: C. M. Nuncio, B. J. Carr (University of Wyoming) Speaker: Charles Nuncio
- 4:30 PM.....Induced Polarization and Self-Potential analyses of Sedimentary Uranium Deposits in the Shirley Basin, Wyoming: K. Van Wesenbeeck, B. J. Carr (University of Wyoming) Speaker: Bradley Carr
- 4:55 PM.....A new electric imaging configuration combining dipoledipole and Schlumberger-Wenner arrays to enhance detection of a thin sliding layer: P. H. Giao¹, H. H. Doan², B. Xuan Hanh², N. Q. Pham² (1. Petrovietnam University (PVU); 2. Vietnam Petroleum Institute) Speaker: Pham Giao

RC 2 Applications 2

Session Chairs: Antonio Buono and Imelda Johnson

Location: 362C

- 3:40 PM.....Seismic Impedance-Based Lithology Classification and Petrophysical Prediction for CO₂ Storage Site

 Characterization in the Delaware Basin: C. Onyeakusi¹, T. Ude-Akpeh¹, J. Lee¹, R. Trentham¹, M. Henderson¹, C. Cagle², R. Dupree² (1. University of Texas Permian Basin; 2. Omnia Midstream Partners) Speaker: Chukwudi Onyeakusi
- 4:05 PM.....Combining injectivity permeability with log- and corederived permeability in static geomodels: Delaware and Midland Basin case histories: D. R. Hoffman, J. Ge, J. Leng (Bureau of Economic Geology, University of Texas at Austin) Speaker: David Hoffman
- 4:30 PM.....Self-Potential and Fluid Flow Inversion for Detecting
 Fractures: S. Al Nasser (Saudi Aramco) Speaker: Saleh Al
 Nasser
- 4:55 PM.....Reservoir architecture of compound delta clinoforms: C. Olariu¹, R. J. Steel¹, A. Osman², V. Rossi³ (1. The University of Texas at Austin; 2. The University of the West Indies; 3. National Research Council of Italy) Speaker: Cornel Olariu

RP 2 Application

Session Chairs: Laurent Louis and Madhumita Sengupta

Location: 371B

- 3:40 PM.....Regional petrophysical and rock physics database and analysis for carbon capture and sequestration (CCS) screening offshore Australia: M. Ellis, L. Leon, N. Aryal, Y. Liu, A. Y. Sayed, D. Barlass, A. Karvelas (SLB) Speaker: Michelle Ellis
- 4:05 PM.....Rock Physics approach to quantify microporosity and permeability in microporous carbonate: V. Saxena (RockLog Consultancy) Speaker: Vimal Saxena
- 4:30 PM.....Study on the Petrophysical Characteristics of Dolomitized
 Carbonates in the Leikoupo Formation, Western Sichuan:
 H. Wang, H. Shen, W. Liu, W. Cheng, B. Liu (SINOPEC
 Geophysical Research Institute Co. Ltd.) Speaker: Huan
 Wang
- 4:55 PM.....Joint elastic-electric characterization of marine sediments in South China Sea: X. Zhang², S. Chen², H. Yuan¹, Z. Hu³ (1. China University of Geosciences Beijing; 2. Research Institute of Petroleum Exploration and Development; 3. BGP, CNPC) Speaker: Xin Zhang



Wednesday, 27 August

SILIC 2 Conventional Studies in Sedimentary Processes

Session Chairs: Samuel Hudson and Carlos Molinares

Location: 351A

3:40 PM.....Submarine Landslide Influence on Delta Stratigraphy and Channel Formation, Northeastern Gulf of Mexico: J. Covault (The University of Texas at Austin) Speaker: Jake Covault

4:05 PM.....WITHDRAWN

4:30 PM.....Inyan Kara Group, Lower Cretaceous, Black Hills, South
Dakota and Wyoming: Outcrop Studies for Williston Basin
Resource Management: R. Beaubouef (RTB Geoscience)
Speaker: Rick Beaubouef

4:55 PM.....Seismic interpretation and numerical modeling of clastic sediment flux for reservoir quality prediction (Arabian Plate, Cretaceous): N. A. Michael, R. Zuhlke, E. Aljshi (Saudi Aramco) Speaker: Nikolaos Michael

SP 8 Seismic Data Interpolation and Reconstruction

Session Chairs: Gordon Poole and Adam Searle

Location: 372B

3:40 PM.....Irregular seismic data reconstruction with user-defined grids: L. Dong, L. Zhai, S. Guo, D. Zhou, Y. Tian, G. Wei (BGP, CNPC) Speaker: Lieqian Dong

4:05 PM.....Simultaneous off-the-grid reconstruction and denoising:

A label free deep learning framework: C. Li², O. Saad¹,
Y. Chen² (1. King Abdullah University of Science and
Technology; 2. The University of Texas at Austin) Speaker:
Chao Li

4:30 PM.....Physics-informed neural network for seismic data reconstruction of compressed sensing: Y. Li, W. Lu, W. Cao (Tsinghua University) Speaker: Yinshuo Li

4:55 PM.....Reconstruction of missing near-offset data using multiples based on deep learning: Z. Yu, Z. Li, Y. Qiao, P. Wang, H. Zhang, Z. He, Q. Zhang, B. Zhao (China University of Petroleum) Speaker: Zhina Li

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SS 29 Discovery Thinking: Integrating Geology and Geophysics: DHI Reveals Major Subsurface Discoveries 2

Session Chairs: Charles Sternbach and Mike Forrest

Location: 360A

3:40 PM.....Direct Hydrocarbon Indicators in carbonates: Current landscape, future potential?: H. Pettingill¹, R. Roden², r. holeywell¹ (1. Rose and Associates; 2. Rocky Ridge Resources, Inc.) Speaker: Henry S Pettingill

4:30 PM.....New Frontiers in the Last Frontier, Northern Alaska: M. Easley (Pantheon Resources) Speaker: Max Easley

SS 30 Pathways to Sustainable Resources

Session Chairs: Joel Le Calvez and Nimisha Vedanti

Location: 362A

3:40 PM.....Collaboration, Communities, and Training for CCUS: M. G. Imhof (ExxonMobil) Speaker: Matthias Imhof

4:05 PM.....India's energy transition and CCUS status and future outlook: V. C. Nettem¹, N. Vedanti² (1. CSIR-Indian Institute of Chemical Technology; 2. CSIR-National Geophysical Research Institute (Non-Author)) Speaker: Nimisha Vedanti

4:30 PM.....Promoting gender equity and human rights in resources management: The crafting of a UNECE guidelines document for the UNFC and UNRMS frameworks of the United Nations: M. A. Capello (Red Tree Consulting LLC) Speaker: Maria Angela Capello

4:55 PM.....System Dynamics for Levelized Cost of Carbon Transport and Storage Scenarios: G. Wilson (Halliburton) Speaker:
Glenn Wilson



Oral Sessions

Thursday, 28 August

ACQ 3 Survey Design and Compressive Sensing 2

Session Chairs: Frank Janiszewski and Dave Monk

Location: 361B

- 8:00 AM.....Floating window Fourier transform and its applications for estimating spectra of not perfectly periodic and nonuniformly sampled discrete signals: A. Titova, M. B. Wakin, A. Tura (Colorado School of Mines) Speaker: Anna Titova
- 8:25 AM.....'Lobster' Nodes: Designing a unique FWI OBN survey at Atlantis field: I. Ahmed, L. Jiang, J. Naranjo, L. Lopez, Y. Feng, O. Egbue (BP America) Speaker: Imtiaz Ahmed
- 8:50 AM.....Seismic geometry quantitative evaluation based on 3D elastic full-waveform inversion: L. Wu, X. Wang, N. Wang, Y. Lei, H. Pi, P. Lv, X. Guo (BGP, CNPC) Speaker: Long Wu
- 9:15 AM.....Popcorn shooting in Compressive Sensing acquisition:
 Source encoding, reconstruction, and deblending for
 efficient and low-impact surveys: J. A. Acedo (University of
 Alberta) Speaker: Joaquín Acedo

AP 1 Exploration Frontiers

Session Chairs: Vicki Amir and Joniell Borges

Location: 351B

- 8:00 AM.....Onshore to offshore Indus and Kutch Basins of Pakistan and India: A regional approach to discovery thinking: A. Pepper¹, J. Laigle² (1. ThisIsPetrolemSystem; 2. Xplorlab LLC) Speaker: Andrew Pepper
- 8:25 AM.....The Pegasus Basin New Zealand's Ancient Gondwanan Petroleum System?: M. Macnaughtan¹, I. Pecher², L. Strachan¹ (1. The University of Auckland; 2. Texas A&M University, Corpus Christi) Speaker: Michael Macnaughtan
- 8:50 AM.....Unlocking the Hydrocarbon Potential in the North Sumatra Basin, Andaman Sea, Indonesia: M. A. Reynald, R. James, I. Gath, C. Gravestock (Halliburton) Speaker: Mark Reynald
- 9:15 AM.....Comprehensive assessment of hydrocarbon in the deepwater area offshore SW Taiwan using 3D seismic data: W. Liao, W. Chiu, C. Lee (CPC CORP., Taiwan) Speaker: Wei-Zhi Liao

CO₂ 1 Monitoring

Session Chairs: Joel Le Calvez and Kristoffer Walker

Location: 362A

- 8:00 AM.....Adjoint state anelastic full waveform inversion (Q-FWI) for CO₂ saturation monitoring: Leveraging joint velocity and attenuation attributes: S. Dasgupta¹, Y. Xie¹, M. Sen¹, B. Boddupalli² (1. The University of Texas at Austin; 2. SINTEF) Speaker: Sohini Dasgupta
- 8:25 AM.....Integrated passive and active source sparse seismic monitoring for geologic carbon storage projects: P.
 Nyffenegger, K. D. Hutchenson, D. Quigley, J. Yelton, M.
 Dahl (Geospace Technologies Corporation) Speaker: Paul Nyffenegger
- 8:50 AM..... Use of Microseismic to Improve Understanding of CO₂
 Migration in the Mt Simon Storage Reservoir at the Illinois
 Basin Decatur Project (IBDP): T. R. Carr, E. Fathi (West
 Virginia University) Speaker: Timothy Carr
- 9:15 AM.....Monitoring CO₂ injection into a depleted clastic reservoir using seismic, EM and gravity approaches: J. Kho¹, L.

MacGregor¹, N. Hamid¹, M. Ralim¹, S. Chandola² (1.Petronas; 2. Petronas (Non-Author)) Speaker: Sandeep Chandola

DMLA 6 Reservoir and Petrophysical Analysis 2

Session Chairs: Justin Birdwell and Nam Pham

Location: 372A

- 8:00 AM.....Seismic identification techniques for deep permiantriassic reef-shoal reservoirs in complex mountainous areas, China: F. Wu¹, X. Wang¹, Y. Yan², x. wang¹, z. yang¹, y. xiong¹ (1. CNPC; 2. Exploration and Development Research Institute, PetroChina Southwest Oil & Gasfield Company) Speaker: Furong Wu
- 8:25 AM.....Deep Learning Enhanced Large-Area Quantitative SEM
 Pore Analysis in Shale: S. Peng, P. Periwal (University of
 Texas at Austin) Speaker: Sheng Peng
- 8:50 AM.....An observational approach to petrophysical modeling using recent developments in Al: A. J. Feltham (LithoSight Ltd) Speaker: Andrew Feltham
- 9:15 AM Using Stable Diffusion Model to Reconstruct Missing Core Intervals: X. Liu, U. Waheed, K. Ayranci, A. Abdlmutalib (King Fahd University of Petroleum and Minerals) Speaker: Ammar Abdlmutalib

FWI 9 Novel Approaches and Workflows 2

Session Chairs: Jian Mao and Yaxun Tang

Location: 370A

- 8:00 AM.....**Target-Oriented FWI for Subsalt Imaging:** X. Song, S. Luo, I. Pawelec, T. Yang, N. Omoruyi, A. Omale, G. Ritter, G. Xia, R. Johnston (BP) Speaker: Xiaolei Song
- 8:25 AM.....A journey of S-wave velocity update via reflection-based converted-wave FWI: S. Roy, Y. Zhai, M. Elbadry, J. Xu, J. Rickett (SLB) Speaker: Soumya Roy
- 8:50 AM.....**The power of total wavefield:** M. Vyas, S. Luo, J. A. Dellinger, D. Wang, J. Etgen (bp) Speaker: Madhav Vyas
- 9:15 AM.....Polychromatic multiparameter FWI backed by symbolic abstractions: J. Washbourne¹, L. Decker¹, S. Kaplan¹, A. Loddoch¹, O. Cristea¹, K. Bube², M. Louboutin³ (1. Chevron; 2. University of Washington; 3. Devito-Codes) Speaker: John Washbourne

GI 1 Case Studies 2

Session Chairs: Michael McGlashan and Linda Price

Location: 361A

- 8:00 AM.....How did the Louann evaporite form?: Challenging the paradigms of giant salt deposits: A. G. Konstantinou, G. Karner (ExxonMobil) Speaker: Alexandros Konstantinou
- 8:25 AM..... Unraveling the complexity of overpressure development in organic-rich mudrock formations: Insights from process-based geomechanical modeling: Y. Alzayer¹, A. N. Wicaksono², G. Gairola² (1. Aramco; 2. King Abdullah University of Science and Technology) Speaker: Yaser Alzayer
- 8:50 AM.....Closing the gap between Seismic, Geology and Reservoir

 Models with light-weight constrained forward stratigraphic
 modeling: J. Dulac¹, A. Wilson² (1. Next-Shot LLC; 2. Eliis)
 Speaker: Alex Wilson
- 9:15 AM.....ML assisted seismic interpretation: Improved prospect evaluation study in the Lower Indus basin, Pakistan: S.



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Bibi¹, U. Farooq², M. Bhatti² (1. SLB (Schlumberger); 2. Pakistan Petroleum Limited) Speaker: Sehrish Bibi

INT 1 Machine Learning in Assisting Geological Interpretation

Session Chairs: Rachel Lippoldt and Fengming Ruan

Location: 371A

- 8:00 AM.....**3D fault detection using vision transformer with a hybrid-attention mechanism:** C. Li¹, S. Fomel², Y. Chen³, R.
 Dommisse⁴, A. Savvaidis¹ (1. University of Texas at Austin;
 2. University of Texas at Austin; 3. The University of Texas at Austin; 4. University of Texas at Austin) Speaker: Chao Li
- 8:25 AM.....Integrating 3D neural networks fault detection and implicit fault modeling in a global seismic interpretation workflow:
 Q. Corlay², S. Vitel¹, B. Mallison¹, A. Sekar¹, L. Wright¹, E.
 Wang¹, M. Amaru¹, B. Hern¹, L. Souche², K. Wong², S. Philit²
 (1. Chevron; 2. Eliis) Speaker: Quentin Corlay
- 8:50 AM.....3D boulder prediction and filtering workflow for offshore windfarm site characterization: S. Chambers (S&P Global) Speaker: Samuel Chambers
- 9:15 AM.....The fault-karst carbonate reservoir prediction based on artificial intelligence and its application: X. Zhang, Y. Che, S. Lin, J. Ding, W. Li, S. Mu (CNPC Engineering Technology R & D Co., Ltd) Speaker: Xichen Zhang

IPS 1 Hydraulically-induced Fracture Network Monitoring

Session Chairs: Erkan Ay and Ting Chen

Location: 362C

- 8:00 AM.....Microseismic events generated by slip on closed hydraulic fractures: Z. Zhang, K. Nihei, M. Bader, I. Lim Chen Ning, Z. Fang, A. Shabelansky (Chevron U.S.A. Inc.) Speaker: Zhishuai Zhang
- 8:25 AM.....**Hydraulic fracture growth: Storage or leak-off dominated?:**T. Mirzayeva, M. Van der Baan (University of Alberta)
 Speaker: Mirko Van der Baan
- 8:50 AM.....3D microseismic events localization using a 2D conditional diffusion model: D. Wamriew, M. Ravasi, T. Alkhalifah (KAUST) Speaker: Daniel Wamriew
- 9:15 AM.....SRV, focal mechanism, and effect of pump shutdown of microseismic ground monitoring: B. Liang (Geolmage LLC)
 Speaker: Beiyuan Liang

RP 3 Digital Rock

Session Chairs: Arpita Bathija and Ronny Hofmann

Location: 371B

- 8:00 AM.....Image registration of 2D optical thin sections with 3D CT scans for digital rock physics: J. Chung, W. Cai, T. Mukerji (Stanford University) Speaker: Jaehong Chung
- 8:25 AM.....Few-shot learning for digital rock image processing to mechanical property prediction: Z. Wang, D. Cao (China University of Petroleum East China) Speaker: Ziqianq Wang
- 8:50 AM.....Study on the Filling Characteristics of Deep Carbonate
 Reservoirs Based on Digital Rock Physics: W. Cheng, S.
 Ji, B. Liu, W. Liu, H. Shen (SINOPEC Geophysical Research
 Institute Co. Ltd.) Speaker: Wei Cheng
- 9:15 AM.....Combined effect of porosity and local grain size
 distribution on the static elastic properties of high porosity
 sandstone through image-based numerical simulations: L.
 Louis, Y. Han (Aramco Americas) Speaker: Laurent Louis

SP 9 Novel Solutions and Emerging Technologies

Session Chairs: Rodrigo Felicio Fuck and Xu Li

Location: 372B

- 8:00 AM.....Deep resolution: Will Ocean Bottom Node be the answer?: X. Shen (BP) Speaker: Xukai Shen
- 8:25 AM.....Multi-Dimensional Deconvolution of Seismic-While-Drilling data: N. Wang¹, M. Ravasi², T. Alkhalifah¹ (1. King Abdullah University of Science and Technology; 2. Shearwater GeoServices) Speaker: Ning Wang
- 8:50 AM.....Theory of seismic phase analysis using circular statistics:

 A. Rohatgi, A. Bakulin, S. Fomel (The University of Texas at Austin) Speaker: Akshika Rohatgi
- 9:15 AM.....**Wavelet-based normal moveout (W-NMO) correction:** B. Zhang¹, Y. Wang² (1. The University of Alamama; 2. Imperial College London) Speaker: Bo Zhang

SS 31 SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 1

Session Chairs: Rick Beaubouef and Stan Stanbrook

Location: 351A

- 8:00 AM.....Deepwater benthic-current-dominated ('contourite')
 depositional systems: Key processes, sediment sources
 and distribution, and recognition criteria at core to
 reflection-seismic scales: K. Bohacs (KMBohacs
 GEOconsulting LLC) Speaker: Kevin Bohacs
- 8:25 AM.....Initiation and evolution of contour-current related channels and other longitudinal features on continental slopes and contouritic terraces: A hydrodynamic-sedimentologic analysis with applications to hydrocarbon exploration: J. J. Fedele (ExxonMobil) Speaker: Juan Jose Fedele
- 8:50 AM.....Integrated characterization of mixed deep-water systems along the Norwegian Continental Shelf, new perspectives on stratigraphic trap development: C. Serie (University of Oslo) Speaker: Christophe Serie
- 9:15 AM.....Slope Parallel Sediment Transport: Recognition and Impact in Deepwater Plays: R. Fitzsimmons (Hess Corporation)
 Speaker: Roy Fitzsimmons

SS 32 Natural Source Electromagnetic for Mining 1

Session Chairs: Randall Mackie and Hannah Peterson

Location: 372C

- 8:00 AM.....Exploring the influence of various transfer functions on airborne magnetotelluric inversion: D. C. Cowan, L. Heagy, D. W. Oldenburg (University of British Columbia) Speaker: Devin Cowan
- 8:25 AM.....The analysis of MobileMT data from the Athabasca Basin, SK, Canada: D. Sattel¹, H. Peterson², K. Witherly² (1. EM Solutions LLC; 2. Condor Consulting) Speaker: Hannah
- 8:50 AM.....Helicopter Natural Field Electromagnetic and Magnetic Results over the Rogue Reduced Intrusion Related Gold System (RIRGS), Tintina Gold Province, Yukon: J. M. Legault¹, K. Kwan¹, T. Branson², B. Bolin³ (1. Geotech Ltd.; 2. Snowline Gold Corp.; 3. Bolin Geophysical Services LLC) Speaker: Jean Legault
- 9:15 AM.....Discussion

Oral Sessions

Thursday, 28 August

TL 2 4D Seismic Acquisition and Processing 2

Session Chairs: Priyanka Dutta and Jennifer Zhang

Location: 360A

- 8:00 AM.....Time-lapse prestack image-domain least squares migration for ultradeep presalt carbonate field in Santos Basin, offshore Brazil: M. Shadrina, A. Sladkovsky, E. Saragoussi, M. Cavalca, S. Trezzi (SLB) Speaker: Maria Shadrina
- 8:25 AM..... SEAM numerical modeling of CO₂ sequestration and monitoring in a depleted gas reservoir: W. Abriel¹, M. Fehler², A. Hussein³, R. Prioul⁵, N. Ruby⁴, D. Thornton⁴, J. Stefani⁶ (1. Orinda Geophysical; 2. Fehler Consultancy LLC; 3. SLB; 4. Chevron; 5. SLB; 6. Graywacke) Speaker: William Abriel
- 8:50 AM.....OBN Reservoir monitoring. 14 years, 4 surveys. The evolution of OBN acquisition and processing of the Agbami Field deep water Nigeria: P. Nevill¹, Q. Sun², A. Adekanle², A. Ikeneku³, I. Salami³, L. Zhuo⁴ (1. Chevron; 2. Star Deep Water Petroleum Limited; 3. Star Deep Water Petroleum Limited; 4. Chevron Technology Center) Speaker: Peter Nevill
- 9:15 AM.....Optimized traditional 4D binning with primary and secondary trace integration Usan field: I. Samanta¹, D. Davies¹, I. Novianti¹, E. Camarada¹, F. Elebe¹, T. Tigiri¹, A. Muzan¹, D. Chu², M. Helgerud², A. S. Adegbaju², J. Sabo³ (1. TGS; 2. ExxonMobil; 3. NNPC) Speaker: Indranil Samanta

USC 4 Studies of Geologic and Geophysical Processes: Gulf of Mexico 1

Session Chairs: Anurag Pandey and Jara Schnyder

Location: 362B

- 8:00 AM.....The nature of healing phase gravity flows overlying mass failures in salt diapiric basins: A case study in the Thunder Horse area, Gulf of Mexico salt province: A. Alhussaini, L. J. Wood (Colorado School of Mines) Speaker: Abdulrahman Alhussaini
- 8:25 AM.....Reducing exploration risk in Green Canyon, northern Gulf of Mexico, using ultralong-offset sparse OBN and elastic FWI: M. Rowan¹, K. Lyons² (1. Rowan Consulting Inc.; 2. SLB) Speaker: Mark Rowan
- 8:50 AM.....Acquisition and early imaging of a long-offset, low-frequency sparse node survey in the Gulf of Mexico: S. Ji, Z. Yang, R. De Marco Centeno, H. Zhu, B. Wray (Viridien) Speaker: Zhiping Yang
- 9:15 AM.....Applying Causal Epistemic AI to Estimate Fluid Properties in Complex Reservoirs: R. Chakraborty¹, M. Raghorte¹, B. Bixler¹, H. Elshahawi², C. Donohue³ (1. Senslytics Corporation; 2. NoviDigiTech; 3. Murphy Oil Corp) Speaker: Blake Bixler

ACQ 4 Land Seismic Challenges and Opportunities 2

Session Chairs: Sean Contenti and Bruce Karr

Location: 361B

- 10:20 AM...Embedded Field Testing Single-Sensor Nodes versus
 Local Receiver Arrays in 3D Shooting: M. P. Brown¹, L.
 D'Ambrosia¹, W. McCarthy² (1. Aspect Energy LLC; 2. Land Seismic Noise Specialists) Speaker: Morgan Brown
- 10:45 AM...Understanding the physical process of how common ultraslow velocities in the very near surface can strongly distort

- land and OBN seismic data: C. Stork (Land Seismic Noise Specialists) Speaker: Christof Stork
- 11:10 AM ...Discussion on seismic vibrator field QC standard: Z. Wei¹, R. Wang² (1. INOVA Geophysical; 2. BGP, CNPC) Speaker: Zhouhong Wei
- 11:35 AM ...Ultra-dense nodal 3D seismic for high-resolution characterization the Devine injection field laboratory: A.

 Bakulin¹, A. R. Chatenay², S. Swaminadhan¹, R. Burnstad¹, M.

 Shuster¹ (1. University of Texas at Austin; 2. Explor) Speaker:

 Andrey Bakulin

AP 2 Regional Studies and Technology

Session Chairs: Avinash Chandra and William Dickson

Location: 351B

- 10:20 AM...Unraveling the tectonostratigraphy and petroleum system of the Andaman Basin, India: M. Shahriar, R. Stewart, D. Hume, M. N. Bugti (University of Houston) Speaker: Md Upal Shahriar
- 10:45 AM...Is This My Stop? Province Limits of CO₂ and Related Non-HC Contaminants and their Associated Geofluid Pathways:
 W. Dickson¹, J. Granath², M. E. Odegard³ (1. DIGs (Dickson Int'l Geosciences); 2. Granath & Assoc Consulting Geol; 3. GrizGeo, LLC) Speaker: William Dickson
- 11:10 AM ...Unveil the hidden exploration opportunity through holistic approach: Case Study from Sandakan, Semporna, Kinabalu and Layang-Layang Basin Northwest and East Sabah: M. Y. Mansyur¹, M. Azrafy Bin Amin*² (1. Halliburton; 2. Petronas (Non-Author)) Speaker: Mohd Khairil Azrafy Bin Amin
- 11:35 AM ... Application of Pseudo3D in the West Natuna Basin,
 Indonesia: D. Markus¹, K. Rimaila¹, P. de Groot¹, R.
 Muammar² (1. dGB Earth Sciences; 2. Conrad Asia Energy
 Limited) Speaker: Kristoffer Rimaila

CO₂ 2 Reservoir Characterization

Session Chairs: Kathryn Denommee and Amanda Guzofski

Location: 362A

- 10:20 AM...**Machine learning-driven reservoir characterization for optimized CO**₂ **sequestration:** U. Manzoor, F. Arshad, S. Oelfke (LMK Resources) Speaker: Scott Oelfke
- 10:45 AM...A fluid identification method using combined neutron gamma information from four detectors in the carbonate rock formation for oil recovery by injecting CO₂: X. Zhang (China University of Petroleum (East China)) Speaker: Xiaoyang Zhang

11:10 AM ...**WITHDRAWN**

11:35 AM ...A CCUS Case Study in the Bunter Sandstone, Southern North Sea (SEG EVOLVE Program): A. Javid (University of Houston) Speaker: Abdolrazzagh Javid

FWI 10 Novel Approaches and Workflows 3

Session Chairs: Young Ho Cha and Casey Ruplinger

Location: 370A

- 10:20 AM...**Self-correcting salt-model building from a highly inaccurate start model:** M. Warner¹, C. Mavropoulos¹, T.
 Nangoo¹, A. Umpleby¹, N. Shah¹, D. Tishechkin² (1. S-Cube; 2.
 Amazon Web Services) Speaker: Christos Mavropoulos
- 10:45 AM...Homogenization for 3D elastic FWI: A practical application:
 L. Métivier¹, R. Brossier², J. Cao² (1. CNRS; 2. University
 Grenoble Alpes) Speaker: Ludovic Métivier



Thursday, 28 August

- 11:10 AM ...Reflection full-waveform inversion with enhanced soft dynamic time warping loss: F. Chen¹, D. E. Keyes¹, M. Ravasi² (1. King Abdullah University of Science and Technology; 2. Shearwater Geoservices) Speaker: Fugiang Chen
- 11:35 AM ...Improving fractured basement reservoir images via elastic FWI and diffraction imaging: M. Matta¹, W. Wely¹, E. Hooi¹, O. Zdraveva¹, N. Seymour¹, D. Nguyen Duc², G. Phan Phuoc², N. Kieu Anh² (1. SLB; 2. Petrovietnam) Speaker: Mina Matta

GI 2 Case Studies 3

Session Chairs: Michael McGlashan and Linda Price

Location: 361A

- 10:20 AM...Rocketquake Seismology: Data Processing Methods and Results: G. Schuster (University of Utah) Speaker: Gerard Schuster
- 10:45 AM...Advances and strategies for tackling seismic exploration techniques in complex mountainous areas of the Longmenshan fold-and-thrust belt, China: Y. Li, F. Wu, X. Wang, Y. Zhu, Q. Wang, Y. Diao (CNPC) Speaker: Furong Wu
- 11:10 AM ...Leveraging LLM-based Assistants for Geoscientific
 Software: D. Anikiev, U. Waheed, K. Ayranci (King Fahd
 University of Petroleum and Minerals) Speaker: Denis
 Anikiev
- 11:35 AM ...A customized regional velocity model for resolving and quantifying structural uncertainties: North Kuwait Jurassic reservoirs case study: A. Al-Sabari², K. Laiq¹, R. Narhari², S. K. Bhukta², A. Al-Anzi², A. Al-Ajmi², S. H. Nemli³, L. R. Miller³ (1. SLB; 2. Kuwait Oil Company; 3. Consultant) Speaker: Kamran Laiq

INT 2 Machine learning in Assisting Reservoir Characterization

Session Chairs: Sergio Chávez-Pérez and Dan Fernandez

Location: 371A

- 10:20 AM...Lithology identification with imbalanced data based on Deep Learning Ensemble Optimization: Y. Ma, D. Cao, J. Zhao (China University of Petroleum - East China) Speaker: Yubin Ma
- 10:45 AM...Deep learning-based prediction of effective offshore reservoirs using multimodal and multiscale data in highly heterogeneous and fluvial environments: X. Wang², Z. Chen¹, Y. Du², P. Zhang¹, X. Qiao², F. Ruan¹, C. Xin², Y. Liu¹, P. Zhao², W. Mi², F. Wong¹, K. Wang², C. Lin¹ (1. SLB; 2. Shaanxi Yanchang Petroleum (Group) Co. Ltd.) Speaker: Zongpeng Chen
- 11:10 AM ...Identification Methods and Applications of Low-velocity mudstone Based on Generated Samples: M. Ren (The Southwest Petroleum University) Speaker: Mengyu Ren
- 11:35 AM ... A machine learning-based method for predicting pore throat structures of carbonate rocks from NMR data:

 J. Hou (Research Institute of Petroleum Exploration & Development, PetroChina) Speaker: Jue Hou

IPS 2 Induced Seismicity: Fault Monitoring 1

Session Chairs: Adam Baig and Zhishuai Zhang

Location: 362C

10:20 AM...Seismogenic index model of earthquakes induced by water disposal in Oklahoma and Kansas: S. A. Shapiro, C. Langenbruch (Freie Universitaet Berlin) Speaker: Serge Shapiro

- 10:45 AM...Polarity-Based Focal Mechanism Inversion for Fiber
 Optics Sensing Data: Requirement for Robust Inversion
 in Downhole Monitoring: Y. Miao, T. Mizuno, J. Yin, J. Le
 Calvez (SLB) Speaker: Takashi Mizuno
- 11:10 AM ...Improving near real-time passive seismic monitoring with
 AI: A gradient-boosted trees approach to phase picking:
 A. Booterbaugh, E. Naumov (Nanometrics) Speaker: Aaron
 Booterbaugh
- 11:35 AM ... Modeling and Forecasting Wastewater Disposal Induced Seismicity in the Delaware Basin: Z. Fang (Chevron)
 Speaker: Zijun Fang

RP 4 Elasticity and Poroelasticity

Session Chairs: Alex Martinez and Leon Thomsen

Location: 371B

- 10:20 AM...The influence of crack aspect ratio and crack density on the third-order elastic constants and Padé acoustoelastic coefficients under hydrostatic pressure: Y. Feng (China University of Petroleum (East China) Speaker: Yasong Feng
- 10:45 AM...Constraining mineral properties for fluid substitutions using Digital Rock simulations: C. Pradhan, R. Hofmann, N. Saxena (Shell) Speaker: Chaitanya Pradhan
- 11:10 AM ...Shale rock physical model and hydraulic fracturing process analysis under the influence of pore pressure: Q. Yang¹, J. Li¹, J. Cui¹, Y. Wang¹, L. Han¹, y. Zhang¹, X. Wei² (1. China University of Petroleum (Beijing); 2. NWGI) Speaker: Qiyu Yang
- 11:35 AM ...On linearity in saturation versus elastic properties relations: S. J. Omovie¹, J. Dvorkin² (1. Goshey Energy Services LLC; 2. KFUPM/Retired) Speaker: Sheyore Omovie

SP 10 Enhancement with Machine Learning

Session Chairs: Madhav Vyas and Tao Zhao

Location: 372A

- 10:20 AM... Deep learning model for full deghosting of Ultra-High Resolution Seismic data with a custom autocorrelation loss: B. Farmani¹, M. Faouzi Zizi¹, M. Roberts² (1. TGS; 2. TGS (Non-Author)) Speaker: Mark Roberts
- 10:45 AM...Accelerating Marchenko redatuming with deep learning:
 An application to the Volve field data: N. Wang¹, M. Ravasi²,
 T. Alkhalifah¹ (1. King Abdullah University of Science and Technology; 2. Shearwater GeoServices) Speaker: Ning Wang
- 11:10 AM ...**Deep learning-based seismic imaging enhancement utilizing multiples:** Z. Li, Y. Qiao, H. Zhang, P. Wang, Z. He,
 Q. Zhang, B. Zhao, Z. Yu (China University of Petroleum)
 Speaker: Zhina Li
- 11:35 AM ...Improving 3D Seismic Resolution in the Loess Plateau:
 Leveraging 2D Crooked-Line Gully Survey through Weak
 Supervision: D. Liu¹, M. D. Sacchi¹, Y. He², X. Wang², W.
 Chen², F. Li³, J. Chen³, Y. Mu³ (1. University of Alberta; 2.
 Xi'an Jiaotong University; 3. PetroChina Changqing Oilfield
 Company) Speaker: Dawei Liu

Oral Sessions

Thursday, 28 August

SP 11 Acoustic, Elastic and Least-Squares Imaging

Session Chairs: Nizar Chemingui and Cintia Lapilli

Location: 372B

- 10:20 AM...Angle-domain least-squares Kirchhoff migration through explicit Hessian operator: W. Zhang, M. D. Sacchi (University of Alberta) Speaker: Wei Zhang
- 10:45 AM...Specular Filter RTM angle gathers for high fidelity AVO attributes: Atoll case study: C. Kumar, D. Baptiste, D. Kumar, M. Elsayed (bp) Speaker: Chandan Kumar
- 11:10 AM ...Adaptive vertical nonuniform grid optimized elastic RTM:
 W. Lv¹, Q. Du¹, J. Bai², Z. Zou³, W. Wu³, Q. Liu³, L. Ren¹ (1.
 China University of Petroleum (East China); 2. AspenTech;
 3. Bureau of Geophysical Prospecting Inc., CNPC) Speaker:
 Wenhao Lv
- 11:35 AM ...qP- and qS-waves decoupling equations for elastic reverse time migration of ocean bottom node data: L. Ren¹, Q. Du¹, L. Wenhao¹, Q. Li¹, T. Moser² (1. China University of Petroleum (East China); 2. Moser Geophysical Services) Speaker: Lina Ren

SS 33 SEPM Research Symposium: Mixed Turbidite-Contourite Reservoirs 2

Session Chairs: Rick Beaubouef and Stan Stanbrook

Location: 351A

- 10:20 AM...3D seismic stratigraphy and tectonic controls on contourite and turbidite sedimentation along the deepwater margin of Uruguay: J. Miller, P. Mann (University of Houston) Speaker: Joshua M Miller
- 10:45 AM...Large levees on the Danube Fan, Black Sea, slope are the source of contourite mud: H. Feldman¹, E. Leroux², B. Dennielou², G. Lericolais², S. Ker² (1. Colorado State University; 2. Ifremer) Speaker: Howard Feldman
- 11:10 AM ...Bottom-current sediment waves and mass-wasting controls over hydrocarbon entrapment in a distally steepened ramp, Fort Payne Formation (Lower Mississippian, Osagean), NE Tennessee: Using outcrops, logs, and modern oceanography to develop new hypotheses: C. R. Handford (Independent) Speaker: C. Handford
- 11:35 AM ... Process Based Stratigraphic Architecture of a Mixed Turbidite: Bottom Current System, Sinu Basin, Offshore Colombia, SW Caribbean: N. Auchter², N. Khan¹, D. Reed², P. Desjardins², A. Parent² (1. Shell Trinidad and Tobago; 2. Shell Exploration and Production Company) Speaker: Neal Auchter

SS 34 Natural Source Electromagnetic for Mining 2

Session Chairs: Randall Mackie and Hannah Peterson

Location: 372C

- 10:20 AM...Mineral exploration with natural-source EM: Comparing ground and airborne methods: A. Jones¹, R. Mackie² (1. ManoTick GeoSolutions; 2. Viridien) Speaker: Alan Jones
- 10:45 AM...Magnetotelluric imaging for direct detection of mineralization: Opportunities and challenges: B. S. Murphy, J. Spratt, T. Hoskin, S. Evans (Moombarriga Geoscience) Speaker: Benjamin Murphy
- 11:10 AM ...Land MT instrumentation and acquisition, and where we think it may be going over the next decade: R. Sharpe (Quantec Geoscience) Speaker: Roger Sharpe

11:35 AM ... Discussion

TL 3 Analysis using Machine Learning 2

Session Chairs: Kanglin Wang and Martin Widmaier

Location: 360A

- 10:20 AM...Multi-resolution reservoir parameter estimation using Haar wavelet transforms and deep learning: A double-compression approach: A. M. Ahmed, J. C. Shragge, I. Tsvankin (Colorado School of Mines) Speaker: Ahmed Ahmed
- 10:45 AM...Labeling CO₂ Plumes via Deep Learning: S. Gao, S. Fomel, Y. Chen (University of Texas at Austin) Speaker: Shuang Gao
- 11:10 AM ...Symmetric Autoencoder for Seismic Acquisition Repeatability in 4D CO₂ Monitoring: M. Sarrouilhe², H. Barucq², S. Frambati¹, M. Araya-Polo¹ (1. TotalEnergies; 2. INRIA) Speaker: Mauricio Araya-Polo
- 11:35 AM ...Application of seismic modelling and deep neural network for 4D seismic inversion: T. Yusubova, K. Matrosov, R. Malikov, I. Shahsenov (WAVERITY) Speaker: Tatyana Yusubova

USC 5 Studies of Geologic and Geophysical Processes: Gulf of Mexico 2

Session Chairs: Anurag Pandey and Jara Schnyder

Location: 362B

- 10:20 AM...Giant submarine fans in a Greenhouse world: The
 Paleogene Wilcox Group of the Northern Gulf of Mexico: M.
 Sweet (The University of Texas) Speaker: Michael Sweet
- 10:45 AM...New insights on the role of low-velocity shales in subsalt Paleogene exploration in the deepwater Gulf of Mexico:
 D. Carruthers, C. Watkins, S. Ji, Z. Yang (Viridien) Speaker:
 Daniel Carruthers
- 11:10 AM ...Important stratigraphic elements in middle to late Miocene deepwater Gulf of Mexico fields from Mississippi Canyon to Green Canyon Marmalard, Galapagos, Kepler, La Femme, Ariel, Son of Bluto ², Khaleesi, Mormont: C. C. Strong (Red Willow Production Co.) Speaker: Catherine Strong
- 11:35 AM ...Reservoir characterization and assessment for carbon storage potentials in offshore Matagorda Island, South Texas: Y. O. Azeez¹, M. Abdrabou¹, H. Ebaid², H. Elattar³, I. Pecher¹ (1. Texas A&M University-Corpus Christi; 2. Texas A&M University, College Station; 3. University of Leeds) Speaker: Yusuf Azeez



Thursday, 28 August

ACQ 5 Time Lapse and 4D Acquisition

Session Chairs: Christian Strand and Malcolm White

Location: 361B

- 1:20 PM.....Parameterization and feasibility of the 4D-Focused test in the Buzios OBN Monitor acquisition: F. Vidal, J. Borba, C. Climaco, M. Grochau, M. Costa (Petrobras) Speaker: Felipe Vidal
- 1:45 PMPlanning and executing a 4D baseline OBN seismic survey in the Gulf of Mexico in adverse conditions: D. Hite¹, B. Tredrea², G. Winfield³ (1. ACTeQ LLC; 2. Murphy Exploration & Production; 3. PXGeo) Speaker: Damian Hite
- 2:10 PM.....Atlantis one 3D baseline and five monitor deepwater

 OBN surveys, but is it really 4D?: J. Naranjo¹, M. Pfister¹, G.

 Costa¹, G. Alexander¹, F. Billette¹, I. Dootson¹, W. McGee¹, B.

 Slopey², P. Freitas³ (1. bp; 2. bp, Retired; 3. TGS) Speaker:

 John Naranjo
- 2:35 PM.....Field trial of a sparse and automated seismic acquisition system with permanent anchored vibratory sources: S.

 Li¹, T. Chen¹, X. Fang¹, M. Lee², H. Wilkinson³ (1. SensorEra; 2. California Resources Corporation; 3. Green Power USA) Speaker: Siwei Li

AP 3 China Case Studies and Technology 3

Session Chairs: Feng Deng and William Dickson

Location: 351B

1:20 PM.....WITHDRAWN

- 1:45 PM.....Quantitative analysis of the Source-to-Sink System: A case study from the Paleogene in the Southern Bohai Bay Basin:
 C. Zhang (Yangtze University) Speaker: Chengcheng Zhang
- 2:10 PMNew insights in the late Triassic formation in Sichuan gas province: Results from shallow to deep drilling and possibility of finding oil: B. Zheng², J. Kang², J. Cao², G. Yang², Z. Zhao², S. Wu¹ (1. Power Energy and Environmental Research Institute; 2. Chengdu Center, China Geological Survey (Geosciences Innovation Center of Southwest China) Speaker: Sheng Wu

 $2:\!35\ \mathsf{PM}.....\textbf{Discussion}$

CO, 3 Modeling

Session Chairs: Kristen Busse and Darlene Zybala

Location: 362A

- 1:20 PM.....Predicting CO₂ Storage and Enhanced Gas Recovery
 (CSEGR) Performance under Uncertainty using EnsembleBased Reservoir Heterogeneity Modeling: D. Elhossary,
 M. Pyrcz, K. Mohanty (The University of Texas at Austin)
 Speaker: Deena Elhossary
- 1:45 PM**Evaluating the area of review and CO₂ phase partitioning in saline aquifers using probabilistic methods:** U. D. Orivri, R. Pollyea (Virginia Polytechnic Institute and State University) Speaker: Uzezi Orivri
- 2:10 PM.....Impact of depositional heterogeneity on the prediction of CO₂ plume arrival and injection rate: A geological recharacterization of the Parratte Fm (Parasequence 2), Australia (Otway Stage 4 CCS pilot project): N. Pearson, I. Barranco (Chevron) Speaker: Nadine Pearson
- 2:35 PM.....Developing CO₂ storage hub scenarios on the offshore

 East Coast from site-selection to 3D modeling: S. Skopec¹,
 B. Petras¹, R. L. Hunt¹, J. Hershberger¹, J. Sminchak¹, N.

Gupta¹, W. J. Schmelz², K. G. Miller² (1. Battelle; 2. Rutgers University) Speaker: Stuart Skopec

FWI 11 Machine Learning 4

Session Chairs: Yanhua Liu and Serge Sambolian

Location: 370A

- 1:20 PM.....Self-supervised active learning for the inversion of geophysical data: D. Colombo, E. Turkoglu, E. Sandoval Curiel (Saudi Aramco) Speaker: Daniele Colombo
- 1:45 PM.....Accelerating the convergence of implicit FWI and LSRTM with a field data application: S. Wang, T. Alkhalifah (KAUST) Speaker: Shaowen Wang
- 2:10 PM.....Self-supervised learning with cross-training between CNN and transformer for low-frequency enhancements: H. Tang, C. Hu, X. Cheng (SLB) Speaker: Hengyu Tang
- 2:35 PM.....Active learning Bayesian inference: Application to near surface full waveform inversion: R. Feng², D. Colombo¹, E. Turkoglu¹, E. Sandoval Curiel¹, T. Y. Alyousuf³ (1. Saudi Aramco; 2. Aramco Asia; 3. Colorado School of Mines) Speaker: Daniele Colombo

INT 3 Interpretation Methods 2

Session Chairs: Danping Cao and Altay Sansal

Location: 371A

- 1:20 PM.....Facies and reservoir rocks at Cambrian inner platform
 (Sichuan Basin) and platform margin (Tarim Basin):

 Evidences from 3D seismic data: W. Zhao¹, W. Liu¹, C. Bian¹,
 S. Hu¹, H. Zeng², Z. Xu¹ (1. Research Institute of Petroleum
 Exploration and Development, PetroChina; 2. The University
 of Texas at Austin) Speaker: Wenzhi Zhao
- 1:45 PM.....The Application of Seismic Wave Phase Decomposition and Reconstruction Method for the Fault-Controlled Fractured-Cavity Reservoirs in Tarim Basin: S. Chang¹, M. Wang¹, J. Chen¹, K. Ji² (1. Petrochina Hangzou Research Institute of Geology; 2. University of Tulsa) Speaker: Shaoying Chang
- 2:10 PM.....**Deriving a variable matrix density log for shaly sands:** F. J. Angel-Saez, L. A. Hathon, M. Myers (University of Houston) Speaker: Franklyn Angel-Saez
- 2:35 PM.....Automatic 3D seismic interpretation of horizons and sequence boundaries guided by seismic flowlines: D. Adelved¹, J. Lie², A. J. Bugge² (1. University of Oslo and Geomind; 2. Aker BP) Speaker: Dennis Adelved

IPS 3 Induced Seismicity: Fault Monitoring 2

Session Chairs: Joel Le Calvez and Fabian Pena

Location: 362C

- 1:20 PM.....Induced Seismicity Interaction Between Hydraulic
 Fracturing and Saltwater Disposal: S. Maxwell, S. Doss
 (Ovintiv) Speaker: Shawn Maxwell
- 1:45 PM.....Induced Seismicity Analysis for Pressure Geothermal: Test
 Case in Atascosa County, Texas: M. Eros¹, A. Savvaidis²
 (1. Sage Geosystems; 2. The University of Texas at Austin)
 Speaker: Mike Eros
- 2:10 PM.....Microseismic monitoring using a temporary seismic array in Pawnee, Oklahoma: J. Woo¹, T. Chen¹, X. Chen² (1. Los Alamos National Laboratory; 2. Texas A&M University) Speaker: Jeongung Woo
- 2:35 PM.....The Value of Hybrid Seismic Monitoring in Subsurface Injection Operations: M. Braim¹, Z. Esmaeilzadeh¹, B.

Oral Sessions

Thursday, 28 August

Waggott¹, N. Fleegal² (1. ESG Solutions; 2. ESG Solutions (Non-Author)) Speaker: Nicholas Fleegal

MME 1 Mineral Prospectivity Mapping and Data Processing

Chairs: Rama Chandrudu Arasada and Zhuo Liu

Location: 362B

- 1:20 PM.....Data fusion for identifying thermal alteration zones using geophysical and remote sensing data: T. Y. Alyousuf, S. Hossain (Saudi Aramco) Speaker: Taqi Alyousuf
- 1:45 PM.....Formulating gold prospectivity mapping as a constrained learning problem: F. A. Jackson, P. Wozniakowska, O. Greif, B. Peters, M. McMillan, E. Haber (Computational Geosciences Inc) Speaker: Frederick Jackson
- 2:10 PM.....Vision Transformer Networks for airborne IP removal:

 J. Kuttai², P. Wozniakowska², M. McMillan³, E. Haber¹, B.
 Peters² (1. University of British Columbia; 2. Computational
 Geosciences Inc.; 3. Invert Geophysics) Speaker: Johnathan
 Kuttai
- 2:35 PM.....A field trial of airborne gravity gradiometry and magnetic survey using ergodic sampling: M. Zhang¹, B. Howe², S. Devriese² (1. Colorado School of Mines; 2. Teck Resources Ltd) Speaker: Mengli Zhang

NEF 1 Characterization of Natural Hydrogen Reservoir

Session Chairs: Shuvajit Bhattacharya and Akshika Rohatgi

Location: 351A

- 1:20 PM.....Characterization and detection of natural hydrogen reservoirs: Integrated capillary, diffusion, and seismic modeling approaches: Y. Mathur¹, R. Hofmann², N. Saxena² (1. Stanford University; 2. Shell) Speaker: Yashee Mathur
- 1:45 PM......Hydrogen Storage Potential of Salado Formation in the

 Permian Basin of West Texas: L. Ruiz Maraggi, A. MartinezDonate, L. Melani, L. G. Moscardelli (Bureau of Economic
 Geology, The University of Texas at Austin) Speaker:
 Leopoldo Matias Ruiz Maraggi
- 2:10 PM.....Geophysical responses of stimulated hydrogen production in ultramafic rocks: J. Capriotti, N. Perkovich, M. Zhang, Y. Li (Colorado School of Mines) Speaker: Joseph Capriotti
- 2:35 PM.....Seismic-H2: Seismic modeling framework for underground hydrogen storage: N. Creasy¹, S. Mao¹, M. Mehana¹, M. Malki², Y. Huang¹, J. Parsons³, D. Li¹, A. Indro¹, J. Cull-Host¹, K. Gao¹ (1. Los Alamos National Lab; 2. University of Wyoming; 3. University of Houston) Speaker: Neala Creasy

RP 5 Recent Advancements

Session Chairs: Tanima Dutta and Mark Kittridge

Location: 371B

- 1:20 PM.....Wave dispersion and attenuation in double-porosity media containing wedge-shaped cracks: J. Li, Z. Zong, F. Chen, Q. Meng, J. Yang, Y. Shen (China University of Petroleum (East China)) Speaker: Jiayun Li
- 1:45 PM Wave equation for non-Darcy flow in tight porous media considering threshold pressure gradient: B. Wu, J. Gao (Xi'an Jiaotong University) Speaker: Baohai Wu
- 2:10 PM.....The soil mechanical snap fastener: Rock physical modelling of local stress during loading and unloading of smectitic clays: I. L. Fabricius (DTU) Speaker: Ida Fabricius

SMT 2 Seismic Imaging: Novel Approaches

Session Chairs: Partha Routh and Yi Shen

Location: 361A

- 1:20 PM.....Elastic wave stratigraphic imaging method for impedance relative perturbation: R. Dou, S. Chen (Zhejiang University)
 Speaker: Ruxun Dou
- 1:45 PM.....Accelerating Upside-down Rayleigh-Marchenko imaging using Self-Supervised learning: N. Wang¹, M. Ravasi², T. Alkhalifah¹ (1. King Abdullah University of Science and Technology; 2. Shearwater GeoServices) Speaker: Ning Wang
- 2:10 PM.....Fourier series imaging condition: RTM angle gathers with elastic and beyond-elastic imaging conditions, and prospect of beyond-elastic FWI: Z. Feng, X. Cheng, D. Vigh (SLB) Speaker: Zongcai Feng
- 2:35 PM.....Effective viscoacoustic reverse time migration with
 Q-compensation using finite-difference operators: Q.
 Mao, Y. Shen, J. Huang (China University of Petroleum (East China)) Speaker: Qiang Mao

SP 12 Machine Learning Priors, Projection and Attribute Prediction

Session Chairs: Shijun Cheng and Anusha Sekar

Location: 372A

- 1:20 PM.....Incorporating the Multiscale Fourier Transform, Principal Components, and Significance Measures in Seismic Prediction of Rock Properties: V. Kronberg², J. Castagna¹, G. Gil², S. Chen³, R. Jiang⁴ (1. University of Houston; 2. Lumina Geophysical; 3. PetroChina; 4. Carrie Energy Group Ltd) Speaker: Vì Kronberg
- 1:45 PM.....What is our a priori information? Generating representative earth models for ML training: M. Roberts (TGS) Speaker: Mark Roberts
- 2:10 PM.....**2D-to-3D seismic image conversion using hybrid interpolation with geological priors:** C. Li, T. Zhao, F. Xavier
 De Melo, R. Ysaccis, W. Hu (SLB) Speaker: Tao Zhao
- 2:35 PM.....Line SAM: A line-based prompting for seismic foundation models: M. T. Alotaibi, M. Prabhushankar, G. AlRegib (Georgia Institute of Technology) Speaker: Mohammad Alotaibi

SP 13 Case Studies on Node Data

Session Chairs: Inma Dura-Gomez and Shouting Huang

Location: 372B

- 1:20 PM.....Exploration challenges and data processing solutions on nodal data from the loess tableland: R. Gao, C. Xu (Sinopec) Speaker: Rongtao Gao
- 1:45 PM.....Processing on-the-edge applied to Ukraine's first nodal seismic survey: C. Giersz¹, G. Barnes¹, E. Murray¹, A. Ourabah¹, C. Rudling², Y. Solodkyi³, Y. Renkas³ (1. STRYDE; 2. TetraTechRPS; 3. DTEK Oil&Gas) Speaker: Celina Giersz
- 2:10 PM.....Enhancing seismic imaging in the Colombian Eastern
 Foothills: A modified Joint Reflection-Refraction
 tomography approach: F. A. Vivas¹, S. A. Velasco², J. D.
 Basto³, D. Rodriguez⁴ (1. Ecopetrol S.A; 2. Aspentech; 3. TIP
 CISLAB; 4. Professional) Speaker: Flor Vivas
- 2:35 PM.....A case study of TORT Q imaging of OBN data in a highly faulted area: Z. Ding, T. Li, P. Zhang, J. Huang, Y. Wang,



Thursday, 28 August

L. Tian, J. Yan, J. Guo, T. Zeng, J. Guo, L. Xie (BGP, CNPC) Speaker: Zaiyu Ding

SS 35 Abandoned Mine Lands

Session Chairs: Salman Abbasi and Julian Ivanov

Location: 372C

1:20 PM.....Nonintrusive 3D Geophysical Imaging of Abandoned Mine Lands: E. Clyne, M. Mirzanejad, L. Steele, W. Levandownski

(Tetra Tech) Speaker: Elisabeth Clyne

1:45 PM Time-lapse VSP monitoring of legacy solution mining caverns in Hutchinson, Kansas: S. L. Peterie, R. D. Miller, M. Tamburro, J. Ivanov (Kansas Geological Survey) Speaker: Shelby Peterie

2:10 PM.....High resolution seismic reflection to delineate collapse in a 225 m deep room and pillar salt mine resulting in sinkholes in Rice County, Kansas: R. D. Miller (Kansas Geological Survey) Speaker: Richard Miller

TL 4 Case Studies 2

Session Chairs: Christian Theriot and Bram Willemsen

Location: 360A

- 1:20 PM.....Maximize the value of 4D seismic from non-repeatable surveys: A case study of OBN-on-streamer 4D processing to enable the seafloor transition at Liza, offshore Guyana: Y. Tang¹, F. Lin¹, V. Gudipati¹, R. Bansal¹, M. Helgerud¹, D. Chu1, M. Sengupta1, P. Singh1, K. A. Wagenvelt1, W. Burnett1, C. Schiott², J. Zhou³, Z. Wang⁴, Y. Huang⁴, S. Mothi⁴ (1. ExxonMobil; 2. Hess; 3. CNOOC; 4. Viridien) Speaker: Yaxun
- 1:45 PM Campos Basin 4D study: A Case Study Integrating **Conventional Hydrophone and Multisensor Towed Streamer** for monitoring the Albacora Leste field: D. Lecerf¹, G. Jangelme¹, v. oliveira¹, r. melo¹, J. BURREN¹, r. ferro², A. G. da Silva², p. r. coelho², M. G. Martins², i. Neves² (1. TGS; 2. PRIO) Speaker: Didier Lecerf
- 2:10 PM.....Maximizing the value of the first time-lapse OBN data at Liza field with co-processing: J. Yang¹, Y. Huang¹, Y. Han¹, L. Ren¹, S. Mothi¹, Y. Tang², F. Lin², V. Gudipati², R. Bansal², C. Schiott³, J. Zhou⁴ (1. Viridien; 2. ExxonMobil; 3. Hess; 4. CNOOC) Speaker: Joy Yang
- 2:35 PM.....Enhanced 4D seismic outcomes through true 4D processing - Usan field: I. Samanta¹, D. Davies¹, I. Novianti¹, F. Elebe¹, D. Chu², M. Helgerud², A. S. Adegbaju², A. Olatunbosun², j. jaiyeola³ (1. TGS; 2. ExxonMobil; 3. NNPC) Speaker: Indranil Samanta

AP 4 China Case Studies and Technology 4

Session Chairs: Vicki Amir and Yitian Xiao

Location: 351B

- 3:10 PM.....Development of Tight Ultra-Thin Interbedded Sandstone Reservoir, Lijing block, Shengli Field, China: Q. Su², A. Zhong², I. Liu², N. Wang³, S. Wu¹ (1. Power Energy and Environmental Research Institute; 2. Sinopec; 3. Shanghai Research Institute, Sinopec Lubricant Co., LTD.) Speaker: Shena Wu
- 3:35 PM.....Coal-rock Gas: A Novel Unconventional Natural Gas Resource: G. Li, Q. Zhao, T. Zhou, Z. Liu (PetroChina Research Institute of Petroleum Exploration and Development) Speaker: Zhaolong Liu

- 4:00 PM.....Advances in Lacustrine Shale Oil Exploration and **Development: Theoretical and Technological Progress in** Eastern China Rift Basin: G. Xusheng, B. Shen (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Guo Xusheng
- 4:25 PM.....Mechanism of Coal-rock Gas Development and Production Characteristics of Horizontal Wells: Q. Zhao, X. Zhang, M. Wang, T. Zhou, Z. Liu (PetroChina Research Institute of Petroleum Exploration and Development) Speaker: Qun

CO₂ 4 Screening

Session Chairs: Liz Lee and Carlos Uroza

Location: 362A

- 3:10 PM.....Quantifying CO₂ Plume Height Limits of Regional Seals Using Oil and Gas Field Data: Examples from the Paleogene of the North Sea: R. Jonk¹, N. Price², M. Brettle² (1. ACT-Geo Ltd.; 2. University of Aberdeen) Speaker: Rene Jonk
- 3:35 PM.....Developments to enable rapid sub-fairway scale screening for carbon storage opportunities: A. Uren (Halliburton) Speaker: Ashley Uren
- 4:00 PM.....The Mari-B Mound Complex: A Potential CO₂ Storage Site in the Levant Basin, Mediterranean Sea: 0. 0. Makinde (University of Haifa) Speaker: Oluwapelumi Makinde
- 4:25 PM.....CCS optimization for Southeast Asian electricity grid: A. Lytle, Y. Li, J. Qin (Purdue University) Speaker: Alexandra Lytle

FWI 12 Land. Marine Streamer, and OBS

Session Chairs: Milad Bader and Jaime Ramos-Martinez

Location: 370A

- 3:10 PM.....MP-FWI imaging in the Gulf of Paria, Trinidad and Tobago: M. F. Hartmann, C. Asher (DUG Technology) Speaker: Monica Hartmann
- 3:35 PM.....The value of streamer data in complementing a sparse OBN survey for elastic FWI imaging: C. D. Cantu Bendeck², A. Gomes Dos Santos², D. Rocha², K. Matson², I. Atakishiyev², Y. Yang², C. Perez Solano², M. Koop², G. Madiba¹ (1. Shell; 2. Shell International) Speaker: Cesar Cantu Bendeck
- 4:00 PM.....Multi-parameter FWI imaging in the Llanos Basin, onshore Colombia: M. Phillips¹, J. McLeman¹, M. Varner¹, M. Perez², D. Brost³ (1. DUG; 2. Parex Resources; 3. Parex Resources) Speaker: Mason Phillips
- 4:25 PM.....From compressive sensing reconstruction to fullwaveform-derived reflectivity: A strategy for onshore highresolution near-surface characterization: M. S. Sheneshen¹, A. Abdullah¹, T. M. Albader¹, A. Glushchenko¹, G. Busanello¹, P. Bilsby¹, A. H. El-Emam², M. J. Ali², h. M. Bayri² (1. SLB; 2. Kuwait Oil Company) Speaker: Gabriele Busanello

Oral Sessions

Thursday, 28 August

IPS 4 Induced Seismicity and New Energies

Session Chairs: Ting Chen and Daniel Hollis

Location: 362C

3:10 PM.....Locating Geothermal-induced Microearthquakes using DAS and Machine Learning: Application to UTAH FORGE 2022 Stimulations: P. Yu, T. Zhu, C. Marone, D. Elsworth (Penn State) Speaker: Tieyuan Zhu

3:35 PM.....Bayesian inversion of microseismic events at the FORGE
Geothermal site: Y. Song, S. Yuan, E. Martin (Colorado
School of Mines) Speaker: Yida Song

4:00 PM.....VSNet: Deep-learning inversion of velocity structures and source locations with passive seismic data: H. Sun (The University of Texas at El Paso) Speaker: Hongyu Sun

4:25 PM.....**Seismic Source Parameters of a Geothermal Stimulation:**A. M. Baig¹, M. Lambert¹, Y. Geng¹, S. Karimi¹, H. Mandler¹, S. Dadi² (1. Nanometrics; 2. Fervo Energy) Speaker: Adam Baig

MME 2 Modeling and Drilling for Mineral Exploration

Session Chairs: Jose Arce and Marco Couto

Location: 362B

3:10 PM.....The International Continental Drilling Program (ICDP)

Bushveld Drilling Project (BVDP): New insights into the formation of the deepest part of the Bushveld Complex: S.

J. Webb, T. Pillay (University of the Witwatersrand) Speaker: Susan Webb

3:35 PM.....Optimizing drilling Plans for Porphyry Copper Deposits

Using Sequential Efficacy of Information and ambient noise
tomography: P. Li¹, J. Muir², Z. Yin¹, G. Olivier², J. Caers¹ (1.
Stanford University; 2. Fleet Space Technologies) Speaker:
Peng Li

4:00 PM.....Inverting for arbitrarily shaped targets using parameterized radial basis functions: P. Pokar, L. Heagy (University of British Columbia) Speaker: Parth Pokar

4:25 PM.....Leveraging geological data to construct training models for supervised deep learning inversion: X. Wei¹, J. Sun², J. Dong⁴, R. Guo³ (1. University of British Columbia; 2. University of Houston; 3. Tsinghua University; 4. China University of Geosciences) Speaker: Xiaolong Wei

NEF 2 Geothermal and Critical Minerals

Session Chairs: Joshua Osasona and Sihong Wu

Location: 351A

3:10 PM.....Geothermal well testing pressure prediction by using a hybrid transformer model system: FORGE well use case: H. Yang¹, J. Chen¹, G. Liu², C. Chen¹, M. Sidahmed¹, A. Challen¹, B. Palmer¹, M. Mark-Moser² (1. Shell; 2. National Energy Technology Laboratory) Speaker: Huihui Yang

3:35 PM.....Locating Volcanic Facies to Find Critical Minerals Through
the Lens of Seismic Attributes and Machine Learning:
D. Mansourian, D. Lubo-Robles, H. Bedle (University of
Oklahoma) Speaker: Danial Mansourian

4:00 PM.....Feasibility of Heat Production from Salt Domes using Next-Generation Geothermal Technologies: What has not worked and what can work?: S. Liu, S. Bhattacharya (The University of Texas at Austin) Speaker: Shuvajit Bhattacharya

4:25 PM.....Potential poroelastic coupling between the Geysers
geothermal production and seismicity/creep distribution
over the Maacama Fault and northern Rodgers Creek Fault:

J. Tung¹, M. Shirzaei² (1. Texas Tech University; 2. Virginia Tech) Speaker: Jay Sui Tung

NS 3 Void Detection in Near Surface Geophysics

Session Chairs: Yusuke Kawasaki and Cathy Truffert

Location: 372C

3:10 PM.....High-Resolution 3D GPR Imaging of Burrow Networks in Sedimentary Strata: S. Hanafy, O. M. Abdeltwab, H. Eltom, A. Al-Lehyani (KFUPM) Speaker: Sherif Hanafy

3:35 PM.....Near-surface seismic surface wave attenuation for void detection: J. Ivanov¹, S. L. Peterie¹, D. Borisov¹, A. Hoch¹, S. Abbasi¹, R. Miller¹, S. Sloan², Y. Zhang¹ (1. Kansas Geological Survey; 2. US Army Engineer Research & Development Center) Speaker: Julian Ivanov

4:00 PM.....Muon Tomography for Density Reconciliation at Rio
Tinto Kennecott's Bingham Canyon Mine: N. Phillips¹, D.
Schouten¹, J. Ellis², M. Paine² (1. Ideon Technologies; 2. Rio
Tinto) Speaker: Nigel Phillips

4:25 PM.....Leaky Surface Waves from Distributed Acoustic Sensing: Signals for Mapping Urban Karst Hazards: Z. Wang, T. Zhu (Penn State) Speaker: Tieyuan Zhu

RP 6 Machine Learning Application

Session Chairs: Tanima Dutta and Ida Fabricius

Location: 371B

3:10 PM.....Uncertainty quantification in rock type classification using a copula of metalog marginals: V. L. De Mello, K. Spikes (The University of Texas at Austin) Speaker: Vitor De Mello

3:35 PM.....Direct prediction of pore volume fractions from elastic and porosity-logs by integrating a Machine Learning framework (Light-Gradient-Boosting-Machine) and DEM model: R. M. Joshi¹, A. Kumar², K. H. Singh² (1. OIL; 2. IIT Bombay) Speaker: Ritesh Joshi

4:00 PM.....Sensitivity-aware rock physics enhanced digital shadow for underground-energy storage monitoring: A. Gahlot, H. Erdinc, F. J. Herrmann (Georgia Institute of Technology) Speaker: Abhinav Prakash Gahlot

4:25 PM.....Optimized rock-physics templates (RPTs) vs. machine learning (ML): A comparative approach for sweet spot delineation in shale gas reservoirs: N. Davy¹, A. EI-Husseiny¹, M. Fawad¹, U. Waheed¹, K. Ayranci¹, N. B. Harris² (1. King Fahd University of Petroleum and Minerals (KFUPM); 2. Faculty of Science, University of Alberta) Speaker: Nandito Davy

SMT 3 Seismic Inversion

Session Chairs: Gokay Bozkurt and Fuchun Gao

Location: 361A

3:10 PM.....An Application of Joint First-Break and Reflection
Traveltime Tomography in the Complex Mountainous Area
of Western China: X. Wan, H. Huang, W. Luo, D. Li, T. Gong,
Y. Chen (BGP, CNPC) Speaker: Xuejuan Wan

3:35 PM.....Derivation and computation of full Hessian kernels in acoustic VTI media: Y. Xie, M. Sen (University of Texas at Austin) Speaker: Yujiang Xie

4:00 PM.....Seismic tomography on a real or simulated Ising computer:

K. Innanen (University of Calgary) Speaker: Kristopher
Innanen



Thursday, 28 August

SP 14 Machine Learning Applications 2

Session Chairs: Thomas Cullison and JuanPaulo Tellez

Location: 372A

- 3:10 PM.....Toward generalizable elastic wave separation: A physicsinformed conditional diffusion approach: S. Cheng, X. Mu, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Shijun Cheng
- 3:35 PM.....Fault-preserving filtering based on U-Net with efficient paired attention: C. Ke, J. Cui, Y. Luo, L. Li, W. Xiong, C. Xu (BGP, CNPC) Speaker: Chaofan Ke
- 4:00 PM.....SeisDiff-denoLD: Seismic Denoising for Transformable
 Coherent Noise via Domain Transformation and Diffusion
 Models: D. Zhu, G. Jin (Colorado School of Mines) Speaker:
 Donglin Zhu
- 4:25 PM.....First arrival traveltimes picking of real data using MODWT-BiLSTM: S. Hanafy¹, A. Bargees¹, N. Iqbal¹, C. Tsingas², M. Almubarak² (1. King Fahd University of Petroleum and Minerals; 2. Saudi Aramco) Speaker: Sherif Hanafy

SP 15 Case Studies 3

Session Chairs: Xiang Li and Lei Zhuo

Location: 372B

- 3:10 PMAnchor field seismic: Pioneering acquisition and imaging technology breakthroughs from discovery to production: Y. Luo, J. Tan, Y. Wang, A. Cai, J. Chen, Y. Sun, J. Liu, P. Tickle, G. Hennenfent, J. Nealon, Y. Tan, Y. Zhang, M. Fan (Chevron US) Speaker: Yang Luo
- 3:35 PM.....Awele-3D, an integrated seismic and potential fields study from the Niger Delta: C. Mitchell¹, R. Yates¹, D. Mondal¹, G. Stock¹, E. Kay¹, F. Winter¹, J. Fruehn¹, S. Yong² (1. TGS; 2. TGS (Non Author)) Speaker: Seet Li Yong

- 4:00 PM.....Capabilities of microseismic monitoring using robust permanent SADAR arrays: K. D. Hutchenson (Geospace Technologies) Speaker: Kevin Hutchenson
- 4:25 PM.....Resolving azimuthal anisotropy in complex structures:

 An orthorhombic imaging case study from Egypt's

 Western Desert: T. S. Mahmoud Ellaithy¹, N. M. Hasanen²,

 A. Sazykin², M. Baioumy², T. Saleh², A. Zaghloul², A.

 Elmansoury², A. Menari², O. Zdraveva² (1. Cheiron Energy; 2.

 SLB) Speaker: Tarek Mahmoud Ellaithy

TL 5 Inversion and Quantitative Interpretation

Session Chairs: Erick Alvarez and Mariana Gherasim

Location: 360A

- 3:10 PM.....Enhanced signal recovery in 4D FWI using partial variation regularization: J. Washbourne, S. Oppert (Chevron) Speaker: John Washbourne
- 3:35 PM.....Time Lapse P wave Velocity and Attenuation Models
 of Fracture Opening and Fluid Injection in a Shallow
 Hydrofracturing and Injection Site: J. W. Saftner¹, J. AjoFranklin², T. Zhu¹ (1. Pennsylvania State University; 2. Rice
 University) Speaker: Jackson Saftner
- 4:00 PM.....Enhancing the weighted-averaged time-lapse fullwaveform inversion with lp-norm: P. D. de Lima¹, M. G. Gebre¹, C. Bezerra¹, M. Ferreira², J. M. Araujo¹ (1. UFRN; 2. Trinity College Dublin) Speaker: Paulo de Lima
- 4:25 PM.....**Joint 4D single-iteration least-squares migration:** F.
 Rudrigues, G. Brando, D. Albuquerque, C. Oliveira, G. Araujo,
 B. Huard, R. Pereira, A. Khalil (Viridien) Speaker: Filipe
 Rudrigues

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Tuesday, 26 August

AFR P1 Subsurface Interpretation, Modeling and Prediction in West African Basins

8:00 a.m.-9:40 a.m.

Session Chairs: Melissa Beaman and Abay Veli

Location: Poster Location 2 (on the 3rd level)

Station A ... Understanding regional structural and horizon deformation using machine learning: A case study Kwanza Basin,
Angola: D. F. Fernandez, M. Uzcategui-Salazar, G. Menzel-Jones, S. Tewari (SLB) Speaker: Dan Fernandez

Station B ...Porosity prediction using Multi-Attribute Regression and Neural Network in ABD Oil Field, Niger Delta, Nigeria:

A. Ibrahim², W. O. Raji¹ (1. University of Ilorin; 2. Federal University Lokoja) Speaker: Wasiu Raji

Station C .. Stacking velocity analysis and poro-elastic characterization of overpressure corridor in the Eocene depositional sequence of an onshore field, Greater Ughelli depobelt Niger delta: E. Benard, T. Gbadamosi, F. Ipoola (Seplat Energy) Speaker: Ebere Benard

Station D ...Continent-ocean transition beneath the Niger Delta, West
Africa, and implications for its deepwater, hydrocarbon
potential: J. Akinpelu, P. Mann (University of Houston)
Speaker: Jumoke Akinpelu

DMLA P1 Non-Seismic Geophysical Data Analysis

8:00 a.m.-9:40 a.m.

Session Chairs: Shihang Feng and Yanhua Liu Location: Poster Location 6 (on the 3rd level)

Station A ...Machine learning-based normalization of Thorium in airborne gamma-ray spectrometry for improved anomaly detection: J. Weihermann, Y. Li, M. Zhang (Colorado School of Mines) Speaker: Jessica Weihermann

Station B ...Adaptive inversion of low-field NMR signals based on attention mechanism and Bayesian optimization of regularization parameters: Y. Cheng, T. LIU (China University of Petroleum, Beijing) Speaker: Yuan Cheng

Station C ... Classification of Hydrostratigraphic Units using Self-Organizing Maps and Hierarchical Clustering of Electrical Resistivity and Water Level Data: O. Emenaha (Norwegian University of Science and Technology) Speaker: Ogonna Emenaha

Station D ...Interactive deep learning for mapping channels on sub-bottom profiler data for geohazard studies:

R. Ravindranathan (Fugro USA) Speaker: Ramya Ravindranathan

DMLA P2 Facies and Reservoir Property Analysis

8:00 a.m.-9:40 a.m.

Session Chairs: Jose Salazar and Harpreet Sethi

Location: Poster Location 7 (on the 3rd level)

Station A ... Hypergraph Framework for Machine Learning in Geological and CCUS Data: P. Saraswat (Querent AI LLC) Speaker:
Puneet Saraswat

Station B ...High-Resolution Lithofacies Prediction Using CWT-Enhanced Seismic Attributes and Gradient Boosting: A Case Study from the Lower Goru Formation: N. Choudhry, A. Ahmad, H. Bedle (University of Oklahoma) Speaker: Noor ul huda Choudhry

Station C ... Hybrid Quantum-Classical Neural Network for Binary
Classification of Salt Dome Images: A. Traversa, U. Waheed

(King Fahd University of Petroleum and Minerals) Speaker: Umair Bin Waheed

Station D ...A Comparative Analysis of Modern Machine Learning
(EMBER) and Traditional Algorithms in Reservoir Property
Modeling: Insights from Buzios Field, Brazil: S. Pedrinha¹,
D. Márquez², J. Navarrete² (1. Petrobras (Petróleo Brasileiro S.A.); 2. SLB) Speaker: Saulo Pedrinha

GM P1 Inversion and Processing in Potential Fields

8:00 a.m.-9:40 a.m.

Session Chairs: Ahmed Ahmed and Jeffrey Shoffner

Location: Poster Location 3 (on the 3rd level)

Station A ... Drone magnetic data processing up in the air and down in the abyss: G. Marquis¹, V. Schifano¹, J. Oehler² (1. University of Strasbourg; 2. Shom) Speaker: Guy Marquis

Station B ... Sparse inversion of magnetic anomaly magnitude based on non-convex optimization: D. Zhu, D. Cao, K. Xu (China University of Petroleum (East China)) Speaker: Dan Zhu

Station C ...Convolutional neural networks to highlight dikes in
Ontario's airborne magnetic data: R. Pires de Lima, I.
Borg, U. Rissetto, M. Pierson (VerAl Discoveries) Speaker:
Matthew Pierson

Station D ...Simultaneous magnetic and gravity inversion by gradual deformation of non-stationary Gaussian processes:

J. Daza, J. Kloeckner, P. Li, J. Caers, Z. Yin (Stanford University) Speaker: Juan Pablo Daza

LAC P1 South American Equatorial Margin 1

8:00 a.m.-9:40 a.m.

Session Chairs: Joniell Borges and Sofia Caylor

Location: Poster Location 1 (on the 3rd level)

Station A ... Seismic interpretation of deep-water channels using multiattribute analysis and machine learning: A study in the Cretaceous of Ceará Basin, Brazilian Equatorial Margin: M. R. Cavalcante de Morais¹, I. Cerdeira¹, M. Holz², H. Bedle³, K. Leopoldino Oliveira¹ (1. Federal University of Ceará; 2. Federal University of Bahia; 3. University of Oklahoma) Speaker: Miguel Cavalcante de Morais

Station B ...Integrating crustal architecture and paleogeography on the Suriname margin and its conjugates: Opportunities beyond the Golden Lane: D. Paton¹, P. J. Markwick², N. Poeketie³, G. Hirschfeld³, S. Wood³, E. Narain³ (1. Tectonknow; 2. Knowing Earth; 3. Staatsolie) Speaker: Douglas Paton

Station C ...3D basin modeling and geochemical characterization of
Early Cretaceous source rocks in the deepwater Ceará
Basin in the Brazilian Equatorial Margin: J. Gorosabel
Araus¹, P. Mann¹, A. Pepper², K. Leopoldino Oliveira³,
A. Souza³, I. Cerdeira³ (1. University of Houston; 2.
ThislsPetrolemSystem; 3. Universidade Federal do Ceara)
Speaker: Jose Miguel Gorosabel Araus

Station D ...Seismic geomorphology of the Lower Sequence to Miocene of the Ceará Basin: L. Facundo, N. Maia de Almeida, K. Leopoldino Oliveira, I. Cerdeira, P. Bezerra Oliveira, Y. S. Alencar Lima (Federal University of Ceará) Speaker: Ian Cerdeira

Tuesday, 26 August

RP P1 CCS and Storage

8:00 a.m.-9:40 a.m.

Session Chairs: Kaushik Banerji and Stanislav Glubokovskikh

Location: Poster Location 4 (on the 3rd level)

Station A ..Frequency-dependent seismic analysis for hydrogen storage in porous media: G. Pantaleo (University of Trieste) Speaker: Giovanni Pantaleo

Station B ... Nonlinear P-Wave Velocity Response to Microstructural Evolution of CO₂ Hydrate and Quantitative Saturation Prediction Model: Q. Gu, J. Geng (Tongji University) Speaker: Qingkai Gu

Station C ... Characterizing Rock Physics and Seismic Anisotropy in the Seal and Storage Units of the Illinois Decatur CCS Reservoir: M. D. Lopez Carrasquilla, J. McNease, M. Sun, Y. Zheng (University of Houston) Speaker: Yingcai Zheng

Station D ... A novel acoustic multiscale petrophysical model of gas hydrate-bearing sediments: Z. Wei, S. Deng, Z. Peng (National Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China)) Speaker: Zhoutuo Wei

RP P2 Measurements and Poroelasticity

8:00 a.m.-9:40 a.m.

Session Chairs: Arpita Bathija and Teng Long

Location: Poster Location 5 (on the 3rd level)

Station A ... Acoustics response of granular porous media with wettability changes: Y. Chen, L. Fu, T. Müller (China University of Petroleum (East China) Speaker: Yangpu Chen

Station B ... Correlation between thermal conductivity and elastic wave velocity in sandstone and unconsolidated sand packsLHmod: Y. Chen¹, L. Hathon², M. Myers¹ (1. University of Houston; 2. University of Houston) Speaker: Yanming

Station C ... Measurement and analysis of coal velocity under insitu geological conditions: Z. Ma, T. Liu, J. Liu (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Zizhuo Ma

Station D ... Novel nanoporosity measurement tool for cuttings and core chips: S. Wu¹, A. Sneddon² (1. Power Energy and Environmental Research Institute; 2. MCWL PALADIN) Speaker: Andrew Sneddon

ACQ P1 Marine Ocean Bottom Nodes 1

10:20 a.m.-12:00 p.m.

Session Chairs: Shangli Ou and Derek Unger

Location: Poster Location 1 (in the Exhibit Hall)

Station E....STEPS - A comprehensive method for OBN acquisition data quality control: T. Gong, Y. Hao, H. Du, W. Li, Z. Li, J. Tang, X. Zhang (BGP, CNPC) Speaker: Tongju Gong

Station F....Reference Methodology Rapid First Break Picking and OBN Positioning Evaluation: R. Lei, Z. Xu, Z. Liu, H. Du, X. Wei, M. Luo (BGPO) Speaker: Runchen Lei

Station G ...Intelligent OBN (iOBN) with autonomous seafloor seismic processing - technology concept: J. L. Lopez¹, S. Grandi², V. E. Beal³, A. dos Santos³, B. Barbosa³, G. de Almeida³, O. Pinheiro³ (1. Shell Brasil Petroleo Ltda; 2. Shell Global Solutions International B.V.; 3. SENAI CIMATEC) Speaker: Jorge Lopez

ACQ P2 Land Seismic Challenges and Opportunities 1

10:20 a.m.-12:00 p.m.

Session Chairs: Robert Bodziak and Shashin Sharan

Location: Poster Location 2 (in the Exhibit Hall)

Station E....Optimal digital arrays for land seismic exploration in desert environments: P. Golikov¹, G. Barnes², E. Murray², E. Alfataierge¹ (1. Saudi Aramco; 2. STRYDE) Speaker: Ezzedeen Alfataierge

Station F....Seismic vibrator oil flow estimation at low frequencies: Z. Wei¹, R. Wang² (1. INOVA Geophysical; 2. BGP, CNPC) Speaker: Zhouhong Wei

Station G ...3D oil and gas seismic acquisition in coal goaf zone: L. Yuan¹, H. Ning¹, S. Wenwu², H. Yuanyi¹, C. Hu¹, W. Lifeng¹, Y. Zhengxin¹, Z. Xiaopeng¹ (1. BGP, CNPC; 2. CNPC JIDONG Oilfield Company) Speaker: Li Yuan

Station H...Reducing shot generated land seismic noise with digitally optimized phase arrays: C. Stork (Land Seismic Noise Specialists) Speaker: Christof Stork

AP P1 China Case Studies and Technology 1

10:20 a.m.-12:00 p.m.

Session Chairs: Feng Deng and Zhaolong Liu

Location: Poster Location 2 (on the 3rd level)

Station E.... Genesis mechanism of low porosity in Permian organicrich marine shale reservoirs in the Sichuan Basin: Insights from organic matter enrichment: P. Wang, P. Zhao, B. Shen, M. Li (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Baojian Shen

Station F.... Seismic Stratigraphy and Reservoir Quality of Deep-Water Channel Complexes in the Mahanadi Basin, India: N. Gungor, M. Castele, D. Hume, R. Stewart (University of Houston) Speaker: Nilay Gungor

Station G ... Fracture prediction using deep learning in buried hill: A case study in CJZ Buried hill, China: Y. Chen, J. Xu, L. Shi (Key Laboratory of oil & Gas Reservoir Geophysics, SINOPEC) Speaker: Yanyang Chen

DMLA P3 Generative and Foundation Models 1

10:20 a.m.-12:00 p.m.

Session Chairs: Altay Sansal and David Tang

Location: Poster Location 6 (on the 3rd level)

Station E.... Agentic Al Workflow for Enhanced Geological Interpretation: Integrating Autonomous Learning and Data-Driven Analysis: Y. Agbor (Amazon Web Services) Speaker: Yannick Agbor

Station F.... Scalable diffusion models with transformers for geomodelling: M. Xu¹, G. Wang², S. Song¹, T. Mukerji¹ (1. Stanford University; 2. University of Science and Technology of China) Speaker: Minghui Xu

Station G ... Enhancing trust in generative Al-based applications used for screening CCUS project feasibility with legacy subsurface data: L. Pelegrin¹, J. B. Kozman², R. Blake², A. Sharma¹ (1. Iron Mountain; 2. Katalyst Data Management) Speaker: Jess Kozman

Station H...Conditional Generative Diffusion Models for Adaptive Earth Velocity Model Synthesis: H. Li², D. Datta¹, F. Bazargani¹, A. Chandran¹, V. Goh¹ (1. Shell; 2. Stanford University) Speaker: Haipeng Li

Tuesday, 26 August

DMLA P4 Reservoir and Petrophysical Analysis 1

10:20 a.m.-12:00 p.m.

Session Chairs: Hector Barrios and Ahmed Merzoug

Location: Poster Location 7 (on the 3rd level)

Station E....PetroAgent" - A Generative AI assistant for Seismic
Petrophysics and QI: A. Das, A. Lu, C. Vavourakis (Amazon
Web Services) Speaker: Agnibha Das

Station F....Deep Learning for Automated Sedimentary Structure

Detection: Comparing YOLOv4 and Faster R-CNN in

Core Box Image Analysis: A. J. Abdlmutalib¹, K. Ayranci¹,

U. Waheed¹, J. A. MacEachern² (1. King Fahd University

of Petroleum and Minerals; 2. Simon Fraser University)

Speaker: Ammar Abdlmutalib

Station G ...FNO surrogate modeling for reservoir simulation and multiwell placement: Q. Zhang¹, W. Li¹, S. Nasser¹, R. Kanfar², A. Al-Ali¹, A. Mana¹ (1. Aramco; 2. Stanford University) Speaker: Qie Zhang

FWI P1 Applications

10:20 a.m.-12:00 p.m.

Session Chairs: Rustam Akhmadiev and Eray Kocel

Location: Poster Location 5 (in the Exhibit Hall)

Station E....A robust sequential difference time-lapse seismic fullwaveform inversion method: M. G. Gebre, P. D. de Lima, J. M. Araujo (Federal University of Rio Grande do Norte) Speaker: Mesay Gebre

Station F....Initial near-surface model building for visco-elastic FWI using Scholte waves from North Sea field data: K. Xiong¹, R. Brossier¹, L. Métivier² (1. Université Grenoble Alpes; 2. CNRS) Speaker: Kai Xiong

Station G ...Comprehensive Velocity Model Building Using Full
Waveform Inversion-Based Methodology: D. Sun, V. Duprat,
A. Riou, M. Appé, B. Duquet, S. Whitehead, p. olah, V.
Piskunov, S. Shoker, J. Soule (TotalEnergies) Speaker: Dong
Sun

Station H...**Elastic FWI application on shallow water area using Ocean Bottom Data:** B. Yu (Sinopec) Speaker: Bin Yu

FWI P2 Machine Learning 1

10:20 a.m.-12:00 p.m.

Session Chairs: Chaoshun Hu and Shiyong Xu

Location: Poster Location 6 (in the Exhibit Hall)

Station E....**Dual implicit neural representations for FWI with salt:** A. Sekar, H. Van Nguyen, B. Mallison, S. Vitel, A. Halpert, U. Albertin, E. Wang (Chevron) Speaker: Anusha Sekar

Station F....Self-supervised learning for low-frequency extrapolation/ denoise in field data from Santos Basin: A. Oliveira Muller, C. Calderon Filho, C. Gomes, F. Farias, F. Leao (Petrobras) Speaker: Ana Paula Oliveira Muller

Station G ...An adaptive migration image-based CNN-based full-waveform inversion (AIC-FWI): Y. Wu², H. Sun¹, Y. Tian³, G. Mcmechan³, J. Zhou⁴ (1. The University of Texas at El Paso; 2. Seattle Children's Hospital; 3. The University of Texas at Dallas; 4. Amazon) Speaker: Yulang Wu

Station H...Balancing Wavenumber Content in FWI Imaging Diffusion Regularization: S. Zhang (King Abdullah University of Science and Technology) Speaker: Shuo Zhang

GM P2 Applications in Potential Fields Processing and Interpretation

10:20 a.m.-12:00 p.m.

Session Chairs: Sofia Caylor and Kristoffer Walker

Location: Poster Location 3 (on the 3rd level)

Station E....Integrated Geophysical Imaging of Salt Structures at
Nordkapp Basin, Barents Sea: X. Tu, C. Fu, Q. Zhen, Q. Di
(Institute of Geology and Geophysics, Chinese Academy of
Sciences) Speaker: Xiaolei Tu

Station F....Geological Quantum Sensing by Ultra High-Resolution
Nitrogen Vacancy Magnetometry: M. Gonzalez¹, V. Kazei¹, L.
Louis¹, J. Rhensius² (1. Aramco Services Company: Aramco
Research Center – Houston; 2. QZabre AG) Speaker: Miguel
Gonzalez

Station G ...From Free-Air Anomalies to Terrain-UnCorrelated and
Terrain-Correlated Anomalies: A new approach for
gravity data processing and terrain density estimation: L.
Ricciardi¹, G. Florio¹, T. Pivetta² (1. Università degli Studi di
Napoli Federico II; 2. INGV) Speaker: Lorenzo Ricciardi

Station H...Geophysical targeting of serpentinite for geologic hydrogen by joint analysis of gravity and magnetic data:
Y. Su¹, S. Wu¹, J. Sun¹, X. Wu¹, Y. Huang¹, J. Chen¹, L. Lu²,
X. Wei³, R. Christiansen⁴ (1. University of Houston; 2. Shell Global Solutions; 3. Stanford University; 4. Leibniz Institute for Applied Geophysics) Speaker: Yawei Su

INT P1 Case Study on Machine Learning for Geological Interpretation

10:20 a.m.-12:00 p.m.

Session Chairs: Arwin Dobber and Jie Qi

Location: Poster Location 4 (on the 3rd level)

Station E....Applying transfer learning to an Al-driven automated horizon tracker: A pre-salt case: J. Zambrini (Aspen Tech)
Speaker: Joao Zambrini

Station F....Accelerating Seismic Interpretation with Machine
Learning: A Case Study from the Gato do Mato Field,
Santos Basin, Brazil: G. Cardoso¹, E. Perico¹, A. Pimentel¹,
M. Lowsby¹, J. Jannuzzi², C. Martinez², J. Navarrete², Y.
Leone², K. Havelia² (1. Petrobras; 2. SLB) Speaker: Gustavo
Cardoso

Station G ...Gulf of Mexico case study: Seismic interpretation
workflows assisted by Al: G. Espinosa, H. Garcia (Geoteric)
Speaker: Gustavo Espinosa

Station H...Expediting and optimizing the interpretation of salt and other geological bodies for inclusion into geocelullar models using Al at the Gulf: P. G. Pistoun (Integrated Seismic & Geomodels, LLC) Speaker: Patricia Pistoun

INT P2 Interpretation Case Study

10:20 a.m.-12:00 p.m.

Session Chairs: Fawz Naim and Niven Shumaker

Location: Poster Location 5 (on the 3rd level)

Station E....A correction method of paleokarst channel width: A case study in the Tarim Basin, China: H. Lv, L. Ma, C. Zhang, L. Yang, Y. Li (Sinopec Geophysical Research Institute Co. Ltd) Speaker: Hui Lv

Station F....The formation mechanism and characterization method of the fractured reef: A case study of the Ordovician



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- **formation in the Tarim basin**: M. Wang¹, S. Chang², J. Chen², K. Ji² (1. Hangzhou Research Institute of Geology; 2. Petrochina Hangzou Research Institute of Geology) Speaker: Mengxiu Wang
- Station G ...Application of seismic inversion to reservoir parameter variability recognition in the Jurassic and Cretaceous formations of the Carpathian Foreland, southern Poland: K. Paprota¹, A. Urbaniec², R. Barton², K. Filipowska-Jeziorek² (1. AGH University of Krakow; 2. Oil And Gas Institute National Research Institute) Speaker: Kacper Paprota
- Station H...Integrating structural and stratigraphic components into growth fault analysis: An enhanced resource evaluation template: H. Rehman, W. R. Finely (University of Louisiana at Lafayette) Speaker: Hamza Rehman

LAC P2 South Atlantic Offshore 1

10:20 a.m.-12:00 p.m.

Session Chairs: Norelis Rodriguez and Aydin Shahtakhtinskiy

Location: Poster Location 1 (on the 3rd level)

- Station E....Strategic development and market approaches for Trinidad and Tobago's deepwater gas resources: S. Vargas, J. Hardiwinangun (S&P Global) Speaker: Stephanie Vargas
- Station F....Integrated multiscale, multiproxy Analysis of Hydrothermal vents occurrence, geometry, structuring and lithological composition on BMC-33 Block, Campos Basin: R. d. Alvarenga¹, I. L. de Jesus¹, H. Yamassaki¹, R. Alberti¹, A. Soares¹, G. J. Terra¹, A. B. França¹, M. Fetter², G. V. Bueno², S. L. Fontes¹, E. F. La Terra¹, M. Blauth¹, L. A. Trindade¹, W. Granitoff¹, A. Guimarães³ (1. National Observatory; 2. Universidade Federal Fluminense; 3. Petronas Brasil) Speaker: Renata Alvarenga
- Station G ...NAZ and Beyond: What's Next for Marine Streamer Brazil
 Exploration: M. Cvetkovic, F. Colina, K. Reuber, S. Baldock,
 M. Widmaier, G. Nash, D. Unger (TGS) Speaker: Milos
 Cvetkovic
- Station H...Petroleum geochemistry of South Atlantic equatorial margin oils: ACT Cretaceous sources, multiple signals of maturity, and migration: J. E. Zumberge (GeoMark Research) Speaker: John Zumberge

NS P1 Infrastructure

10:20 a.m.-12:00 p.m.

Session Chairs: Yunyue Elita Li and Pinghao Wang

Location: Poster Location 7 (in the Exhibit Hall)

- Station E....Comparison of Road and Bridge Structural Responses under Environmental Vibration Based on Seismic Data:

 X. Zhu, J. Zhang (University of Science and Technology of China (USTC)) Speaker: Xiaoxuan Zhu
- Station F....Near surface p- and s-wave seismic imaging for embankment characterization in Poland: E. R. Mohamed, M. Majdanski (Institute of Geophysics Polish Academy of Sciences) Speaker: Eslam Mohamed
- Station G ...Fast shearlet classification of urban utilities without big data: J. N. Ogunbo, S. Lee, J. Choi, S. Kim (Isung Co. LTD) Speaker: Jide Ogunbo
- Station H...Offshore infrastructure assessment post hurricane damage: A case study for deep learning based three-dimensional inversion of magnetic data: S. Mukherjee¹,

B. Barkhouse² (1. EmPact-Al; 2. Drone Geoscience (Non-Author)) Speaker: Bill Barkhouse

SP P1 Multiple Removal Techniques

10:20 a.m.-12:00 p.m.

Session Chairs: Yang Liu and Frederico Xavier De Melo

Location: Poster Location 3 (in the Exhibit Hall)

- Station E....Green's theorem water-layer multiples elimination algorithm: Applications in analytic, synthetic and field data: J. Yang, Z. Wang, G. Zhang, S. Hu, J. Zhang (Sinopec Geophysical Research Institute) Speaker: Jinlong Yang
- Station F....Internal multiples prediction based on Green's function: A case study in the Yellow Sea: Q. Xu (COSL) Speaker: Qiang Xu
- Station G ... Attenuation of OBN multiples by up/down deconvolution and down/down deconvolution: S. Li (BGP, CNPC) Speaker: Shuo Li
- Station H ...Research on Comprehensive Prediction Methods for Water-bottom Multiples with Dynamic Characteristics: S. Hu, J. Yang, P. Qi (SINOPEC Geophysical Research Institute Co.,Ltd) Speaker: Jinlong Yang

SP P2 Machine Learning in Seismic Data Processing 2

10:20 a.m.-12:00 p.m.

Session Chairs: Oluwakemi Eleyinafe and Xinquan Huang

Location: Poster Location 4 (in the Exhibit Hall)

- Station E....Downward continuation with discrete Physics Informed
 Neural Networks: F. Brandolin, T. Alkhalifah (KAUST)
 Speaker: Francesco Brandolin
- Station F....Unsupervised seismic data interpolation and denoising via Self2Self with TV regularization: X. Yang, B. Wang, Y. Zhang (Tongji University) Speaker: Xikun Yang
- Station G ...Unsupervised multi-dimensional seismic denoising and interpolation via single-trace deep representation learning:
 G. Chen, Y. Liu (China University of Petroleum (Beijing))
 Speaker: Gui Chen
- Station H ...Seismic interpolation using 3D denoising diffusion probability model: A survey: D. Xiong, B. Wang, J. Zhang, T. Zhang, W. Geng, D. Xiong, J. An (BGP, China) Speaker: Jingyi An

TL P1 4D Seismic Acquisition and Processing 1

10:20 a.m.-12:00 p.m.

Session Chairs: Erkan Ay and Zhaohui Yang

Location: Poster Location 6 (in the Exhibit Hall)

- Station A ...Real-time and time-lapse subsurface monitoring using monochromatic sources and phase-sensitive detection: M. Bader, I. Lim Chen Ning, K. Nihei, B. Harvey (Chevron U.S.A. Inc.) Speaker: Milad Bader
- Station B ...Realistic 4D OBN seismic data simulation for Brazilian Pre-Salt settings: E. Fagua Duarte¹, D. Da Silva¹, J. Schwarzrock¹, R. C. Araújo¹, G. Corso¹, J. M. Araujo¹, J. L. Lopez², D. Kiyashchenko³ (1. Universidade Federal do Rio Grande do Norte; 2. Shell Brasil Petroleo Ltda; 3. Shell) Speaker: Edwin Fagua Duarte
- Station C ... Detection limits in 4D seismic monitoring based on signal-to-noise ratio: K. Taweesintananon, W. Promrak, P. Boonyasatphan (PTTEP) Speaker: Kittinat Taweesintananon

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Station D ...Instrumenting the Devine Site as a Field Laboratory for Hydrogen Injection: Characterization and Monitoring Feasibility Assessment: A. Bakulin¹, S. Swaminadhan¹, M. Shuster¹, B. Gurevich² (1. University of Texas at Austin; 2. Curtin University) Speaker: Andrey Bakulin

ACQ P3 Onshore Exploration and Seismic

1:20 p.m.-3:00 p.m.

Session Chairs: Chengbo Li and Marina Ramirez Medina

Location: Poster Location 1 (in the Exhibit Hall)

- Station A ... A Novel Full-Node Seismic Acquisition Framework for High-Fidelity Imaging in Complex Near-Surface: X. Dong (Sinopec Geophysical Corporation R&D Center) Speaker: Xuguang Dong
- Station B ...Active seismic survey for subsurface imaging and hydrocarbon exploration in Beaufort West, South Africa:

 M. Mkhomazi¹, M. Manzi¹, M. Sihoyiya¹, J. Matamela², T. Mabidi³, S. Adama³, S. Johnson³, M. Mokoele³ (1. University of the Witwatersrand, Johannesburg; 2. Council for Geosciences; 3. Petroleum Agency SA) Speaker: Marcus Nyiko Mkhomazi
- Station C ...Large-scale lithium scouting in the desert region using insights from multispectral satellite data: A. Ramdani, P. Golikov, A. Wahbi, T. Yousef, E. Alfataierge (Saudi Aramco) Speaker: Ezzedeen Alfataierge
- Station D ...High-precision 3D acquisition technology and its application for deep subsalt structure in Yingxiongling, Qaidam Basin: Y. Wu¹, W. Li¹, Y. Wang², C. Han¹, B. Yu³, H. Yao¹ (1. BGP, CNPC; 2. Qinghai Oilfield Company, PetroChina; 3. BGP) Speaker: Yongguo Wu

ACQ P4 Survey Design and Compressive Sensing 1

1:20 p.m.-3:00 p.m.

Session Chairs: Valeriy Brytik and Chris Tapie

Location: Poster Location 2 (in the Exhibit Hall)

- Station A ... Survey planning for CO₂ monitoring: Theory and simple examples: A. Malcolm (Memorial University of Newfoundland) Speaker: Alison Malcolm
- Station B ...Development trace density at exploration cost:

 Compressive sensing for improved data quality and cost effectiveness: K. L. Millis, K. Koster, R. Al Adawi, D. Blymyer (Occidental) Speaker: Keith Millis
- Station C ...Evaluating the concept of blending and compressive sensing onshore Japan: T. Ishiyama¹, T. Uchigaki¹, F. Hu² (1. INPEX; 2. BGP) Speaker: Tomoki Uchiqaki
- Station D ...Application of modeling technology for surface igneous rocks in Hainan, China: Y. Huang¹, L. Dong², H. Ning¹, C. Hu¹, W. Tianyun¹, G. Cheng¹, H. Jian¹, G. Zhang¹, Z. Qiang¹, Z. lei¹, Z. Jin¹ (1. BGP, CNPC; 2. South Petroleum Exploration and Development Company) Speaker: Yuanyi Huang

AP P2 China Case Studies and Technology 2

1:20 p.m.-3:00 p.m.

Session Chairs: Philomena Gan and Yitian Xiao

Location: Poster Location 2 (on the 3rd level)

Station A ... Adaptive wavelet full waveform inversion and a case for onshore seismic data of Tarim Basin: Z. Liu, Y. Chen (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Zhi Yuan Liu

Station B ...Reliability assessment on seismic facies classification of artificial neural networks: A case study for Ordos Basin: Z.
Liu, D. Jiang (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Zhi Yuan Liu

EM P1 Case Studies and Reservoir Surveillance

1:20 p.m.-3:00 p.m.

Session Chairs: Yuegin Huang and Randall Mackie

Location: Poster Location 7 (on the 3rd level)

- Station A ...Investigation of the electromagnetic responses due to strong conductive man-made structures in the surrounding area: A study based on data measured at the Saemangeum Seawall crest: H. Kang, S. Seol, J. Byun (Hanynag Univ.) Speaker: Hyeonwoo Kang
- Station B ...**Ground-to-air TEM for geohazards:** T. Y. Alyousuf, D. Colombo, E. Turkoglu, E. Sandoval Curiel (Saudi Aramco) Speaker: Taqi Alyousuf
- Station C ... Dynamic CO₂ plume monitoring for safe, dependable, longterm CCS/CCUS operations: K. M. Strack, H. Freitag (KMS Technologies) Speaker: Kurt Strack
- Station D ... SQUID-TEM method with high signal-to-noise ratio effective for deep geophysical exploration in both green and brown fields: K. Tanabe¹, A. Tsukamoto¹, H. Wakana¹, T. Hato¹, M. Zhdanov² (1. SUSTEC; 2. Technolmaging) Speaker: Keiichi Tanabe

FWI P3 Case Studies 1

1:20 p.m.-3:00 p.m.

Session Chairs: Erik Neumann and Brad Wray

Location: Poster Location 5 (in the Exhibit Hall)

- Station A ... Hybrid full waveform inversion with elastic model: A field study in South Altantic Oceanic Plate: S. Zhang², Z. Zhao¹, M. Sen², S. Hu² (1. Peking University; 2. The University of Texas at Austin) Speaker: Shuo Zhang
- Station B ...Elastic full-waveform inversion of a targeted FWI OBN survey at Atlantis field: S. Luo, I. Ahmed, E. Diaz, G. Xia, X. Shen, L. Jiang, T. Yang, Y. Feng, J. Morgan, O. Egbue (bp) Speaker: Simon Luo
- Station C ...Resolving Messinian Salt in the East Mediterranean with elastic full-waveform inversion using narrow-azimuth towed-streamer data: W. Kang¹, O. Hossam¹, M. Ouda¹, A. Alemam¹, G. Saleh¹, M. Salheen¹, A. Sazykin¹, G. Busanello¹, X. Cheng¹, D. Vigh¹, M. Radwan², R. Seddeeq², A. Mamdouh², A. Ahmed² (1. SLB; 2. Egypt Upstream Gateway) Speaker: Wei Kang
- Station D ...Ocean-bottom node survey shot geometry optimization:

 A FWI oriented study: R. Huang, D. Bookes, M. Cvetkovic

 (TGS) Speaker: Richard Huang

FWI P4 Case Studies 2

1:20 p.m.-3:00 p.m.

Session Chairs: Dimitri Bevc and Yi Tao

Location: Poster Location 6 (in the Exhibit Hall)

- Station A ... Application of High Frequency Reflection FWI in Nova Scotia: A case study: G. Yu, R. Huang, I. Berranger, D. M. Davies, I. Novianti (TGS) Speaker: Gan Yu
- Station B ... Extracting high resolution images using multiparameter elastic FWI: G. Huang, C. Macesanu, J. Sheng, F. Liu, J.



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- Ramos-Martinez, D. Whitmore, C. Calderon (TGS) Speaker: Guanghui Huang
- Station C ...Full-Waveform Inversion in Deepwater Complex Salt

 Basins: A Case Study from Gabon: W. Han², W. Peng²,
 T. Cheng², A. Li², Y. Yuan², J. Huang², S. Yang¹ (1. China
 University of Petroleum (East China); 2. CNOOC International
 Limited) Speaker: Wenming Han
- Station D ...Imaging the Delaware Fill Zone with ultra high-density data and high-frequency land FWI: S. SUN, L. Zheng (Viridien) Speaker: Lin Zheng

INT P3 Interpretation Methods 1

1:20 p.m.-3:00 p.m.

Session Chairs: Anatoly Aseev and Fan Jiang

Location: Poster Location 4 (on the 3rd level)

- Station A ...Prediction of Fracture-Cavity Reservoirs in Ultra-Deep Carbonate Strike-Slip Fault Zones: A Multi-Dimensional Angle-Domain Imaging Data Attribute Fusion Technique:

 W. Zhang, W. Huang, X. Xiang, Q. Dong, F. Li, Y. Li, B. Zhu, C. Bi, J. Li (SINOPEC Geophysical Research Institute Co.,Ltd) Speaker: QinYuan Dong
- Station B ... A tectonostratigraphic interpretation of the Mimir High through seismic-borehole tie: New insights into the Paleogene evolution of the Vøring Transform Margin: M. S. Nygaard¹, S. Planke⁵, D. Z. Zastrozhnov¹, I. Midtkandal¹, R. Huismans², J. Faleide¹, C. Berndt³, S. Bünz⁴, N. Lebedevalvanova⁵, H. Brinkhuis⁶, M. M. Abdelmalak¹, M. Jones⁷, J. Millett¹ (1. University of Oslo; 2. University of Bergen; 3. GEOMAR Helmholtz Centre for Ocean Research; 4. UiT The Arctic University of Norway; 5. Volcanic Basin Energy Research (VBER); 6. NIOZ, Royal Netherlands Institute for Sea Research; 7. University of Umeå) Speaker: Madeleine Nygaard
- Station C ...Refined seismic interpretation of fault system based on
 Diffraction Imaging: A Brazilian Pre-salt case: D. Potomati,
 E. Thedy, D. Marques, P. Andrade, M. P. De Almeida
 (PETROBRAS) Speaker: Diego Potomati
- Station D ...Reservoir Parameter Prediction Based on Spatial Attentive Neural Processes: R. Guo, P. Yang, R. Wen, C. Tao, Y. Gao, Y. Yao (BGP, CNPC) Speaker: Rui Guo

INT P4 Seismic Attributes

1:20 p.m.-3:00 p.m.

Session Chairs: Francesca Fazzari and Abay Veli

Location: Poster Location 5 (on the 3rd level)

- Station A ...Interactive seismic facies segmentation using multiattribute seismic data: A. Ahmad¹, H. Bedle¹, A. Mustafa² (1. University of Oklahoma; 2. Occidental Petroleum) Speaker: Aniq Ahmad
- Station B ...Finding the Balance: Human Insight vs. Machine Learning
 Techniques to Optimize Deepwater Channel Facies
 Identification: A. D. Moreno-Ward, H. Bedle (University of
 Oklahoma) Speaker: April Moreno-Ward
- Station C ... Using seismic to predict favorable areas for a fault-fracture controlled tight sandstone gas reservoir in Xujiahe formation, northeastern Sichuan Basin, China: S. Pei, Q. Dong, C. Liu, X. Wang, X. Han, B. Wang (Sinopec Geophysical Research Institute) Speaker: Sijia Pei

Station D ...Research on optimization of injection-production efficiency in operational gas storage based on seismic attributes and well dynamics: Y. Ma¹, Q. Wang², T. Li¹, G. Lu¹, Q. Tong¹ (1. BGP, CNPC; 2. Dagang Oilfield ,CNPC) Speaker: Yuehua Ma

INT P5 Integrated Geological Interpretation

1:20 p.m.-3:00 p.m.

Session Chairs: Travis Moreland and Hugo Munoz

Location: Poster Location 6 (on the 3rd level)

- Station A ...Geophysical Characterization of the Crust in the Tyrrhenian
 Sea Using Integrated Geophysical Analysis and Scientific
 Drilling Constraints: T. E. Onyebum (University of Nebraska-Lincoln) Speaker: Tochukwu Onyebum
- Station B ...Comprehensive identification and prediction of dominant hydrocarbon migration pathways in the Xihu depression, East China Sea Basin: Y. Cheng (China University of Petroleum (East China)) Speaker: Yifan Cheng
- Station C ...Structure and Physical Properties of a Fen in the Valles
 Caldera, NM: E. Smith¹, O. van Linder⁴, S. Jensen⁵, R.
 Marguiles⁶, A. Mohn², K. Riley-O'Connor⁶, M. Susko⁶, O.
 Azevedo¹⁰, P. Bedrosian¹¹, J. Ferguson², N. Igonin², S. Kelley³
 (1. University of Wyoming; 2. University of Texas Dallas;
 3. New Mexico Bureau of Geology; 4. Colorado College; 5.
 Technical University of Denmark; 6. Aclarity; 7. University of Edinburgh; 8. Binghamton University; 9. Mount Holyoke
 College; 10. Georgia Institute of Technology; 11. USGS)
 Speaker: Eva Smith
- Station D ...Core and well log study of Wolfcamp C slope-basinal facies, Midland Basin, Texas: R. A. Saldana (UTPB)
 Speaker: Rosendo Saldana

LAC P3 Frontier Basins 1

1:20 p.m.-3:00 p.m.

Session Chairs: Kaushik Banerji and Hernan Reijenstein

Location: Poster Location 1 (on the 3rd level)

- Station A ... Probabilistic velocity time-depth conversion with crossgradients constraint and Hamiltonian Monte Carlo: A South Sub-Andean Seismic-MT experiment: A. I. Quiaro, Z. Vestrum, M. Unsworth, M. D. Sacchi (University of Alberta) Speaker: Alejandro Quiaro
- Station B ...Leveraging artificial intelligence in the onshore play exploration: A case study from the Macuspana Basin, Mexico: J. Roman-Ramos¹, G. Ramirez Gutierrez², I. Islas², K. Wong³ (1. PEMEX; 2. Jaguar E&P; 3. Ellis Inc.) Speaker: Gustavo Ramirez Gutierrez

NS P2 Noise and Uncertainty in Near Surface Seismic Analysis 1:20 p.m.-3:00 p.m.

Session Chairs: Christine Downs and Nikhil Punithan

Location: Poster Location 7 (in the Exhibit Hall)

- Station A ...Machine learning-based efficient prediction of Elastic properties and uncertainty using Gaussian Processes:

 S. Kim, H. Jun (Kyungpook National University) Speaker:
 Sujeong Kim
- Station B ...Impact of near-surface topography on reflection
 distortions: From diffractions to speckle noise: A. Rohatgi,
 A. Bakulin, S. Fomel, J. Badger (The University of Texas at
 Austin) Speaker: Akshika Rohatgi

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- Station C ...Enhancing Machine-Learning based Seismic Inversion with Noise-Augmented Training Datasets: Y. Zhang¹, D. Borisov¹, S. Abbasi¹, A. Hoch¹, R. D. Miller¹, S. Sloan² (1. Kansas Geological Survey; 2. US Army Engineer Research & Development Center) Speaker: Yanwei Zhang
- Station D ... A supervised common offset diffraction estimation approach using deep convolutional networks: M. Abbasi¹, D. Borisov¹, Y. Zhang¹, J. Ivanov¹, S. L. Peterie¹, R. Miller¹, S. Sloan² (1. Kansas Geological Survey; 2. US Army Engineer Research & Development Center) Speaker: Muhammad Abbasi

SP P3 Seismic Data Interpolation, Regularization and Deblending

1:20 p.m.-3:00 p.m.

Session Chairs: Jianyong Bai and Tong Bai

Location: Poster Location 3 (in the Exhibit Hall)

- Station A ...Simultaneous source separation: Accuracy and algorithms:
 R. L. Abma (University of Texas at Austin) Speaker: Raymond
 Abma
- Station B ...Self-supervised seismic deblending in hybrid domains:
 S. Wang¹, L. Sun¹, H. Wang¹, D. Ma¹, Q. Xu¹, X. Si² (1. China Oilfield Services Ltd.; 2. Georgia Institute of Technology)
 Speaker: Shenghou Wang
- Station C ...Prestack Low-frequency Reconstruction with Multi-scale
 Autoregressive Spectral Extension: Y. Ma¹, L. Liu¹, C.
 Tsingas², M. Almubarak³, A. Alfaraj² (1. Aramco Beijing
 Research Center; 2. Saudi Aramco; 3. Saudi Aramco)
 Speaker: Yue Ma
- Station D ...Fast high-order sparse Radon transform with generalized Fourier slice theorem: T. Mo, B. Wang, J. Geng (Tongji University) Speaker: Tongtong Mo

SP P4 Near Surface Solution and Elastic 1

1:20 p.m.-3:00 p.m.

Session Chairs: Ameur Hamdane and Orhan Yilmaz

Location: Poster Location 4 (in the Exhibit Hall)

- Station A ...Double decimation: An effective approach for surfaceconsistent computations: C. Ursenbach (TGS) Speaker: Charles Ursenbach
- Station B ...Residual statics correction for complex near surface challenges: D. Zhang, M. Almubarak, C. Tsingas (Saudi Aramco) Speaker: Dongliang Zhang
- Station C ... Are Near Field Hydrophone recordings useful?: D. Zhang, C. Tsingas (Saudi Aramco) Speaker: Dongliang Zhang
- Station D ... Passive Seismic Data Marchenko Imaging: A Framework for Simultaneous Coherent Noise Attenuation: J. Zhang¹, J. Yang¹, Z. Wang¹, G. Zhang¹, H. Zheng² (1. Sinopec Geophysical Research Institute Co. Ltd.; 2. Sinopec Geophysical Research Institute Co. Ltd. (Non-Author)) Speaker: Hao Zheng

STUD P1 Integrated Geology and Geophysics Studies

1:20 p.m.-3:00 p.m.

Session Chairs: Maria Gutierrez and Christina Shadoan

Location: Poster Location 3 (on the 3rd level)

Station A ...Deep Learning-Based Shale Characterization in the Raniganj Basin, India: N. Shaik, N. Vedanti (CSIR- National Geophysical Research Institute) Speaker: Nasif Ahmed Shaik

- Station B ...Assessing crustal affinity of the Greenland-Iceland-Faroe
 Ridge from joint analysis of multiple geophysical datasets:
 Z. Clowdus, I. Filina (University of Nebraska-Lincoln)
 Speaker: Zachary Clowdus
- Station C ...Radiographing Mountains: Development of a Muon
 Hodoscope for Mineral Deposit Imaging: L. M. Sanchez
 Rhenals (Los Andes University) Speaker: Luisa Sanchez
 Rhenals
- Station D ... The influence of fluids generated by subduction zones on plate structure and slow slip events: Analyzing receiver functions in southcentral Alaska: M. Aleid, E. Golos (The University of Wisconsin-Madison) Speaker: Mustafa Aleid

ACQ P5 Acquisition Technology and Hardware

3:40 p.m.-5:20 p.m.

Session Chairs: Laura Pointer and Christian Strand

Location: Poster Location 1 (in the Exhibit Hall)

- Station E....Research and application of the relationship between node instrument status and seismic data attributes: C. Cai, J. Lu, W. Qu, L. Qin, W. Shao (SINOPEC Geophysical Corporation)
 Speaker: Jiaotong Lu
- Station F....Recording system enablers of large-scale onshore seismic with nodes: T. O'Toole, K. O'Connell, B. Coil, M. Tascher, R. Eperjesi, N. Goujon (STRYDE) Speaker: Tom O'Toole
- Station G ... Assessing the environmental impact of large-volume low-frequency marine seismic sources: A. Goertz, S. C. Stockwell, M. Cvetkovic, G. Nash, O. Orji (TGS) Speaker: Simon Stockwell
- Station H...Comprehensive Examination of the Four Spatial

 Dimensions in 3D Seismic Survey Geometries: M.

 Naghizadeh, A. Crook (Optiseis Solutions Ltd.) Speaker:

 Mostafa Naghizadeh

EM P2 Modeling and Inversion 2

3:40 p.m.-5:20 p.m.

Session Chairs: Lin Liang and Jianguo Liu

Location: Poster Location 7 (on the 3rd level)

- Station E....Comparison of spatial calibration methods for airborne electromagnetic data inversion: H. Ren, T. Chen, Y. Rao (China University of Petroleum, Beijing) Speaker: Tao Chen
- Station F....Enhanced time-domain modeling of the impact of electrical double layer on dielectric dispersion measurements:

 An integrated multi-scale analysis on quartz grains: Z.
 Azizoglu, M. khoury, Z. Heidari (The University of Texas at Austin) Speaker: Zulkuf Azizoglu
- Station G ... A geometric multigrid solver method for 2.5D fast simulation of electromagnetic wave LWD in complex media: Z. Zeng, Y. Han, L. Wang, M. Jia (China University of Petroleum (East China)) Speaker: Zhichun Zeng
- Station H...Research on fast current turn-off technology for high power transient electromagnetic transmitter: Q. Zhen, Q. Di, C. Fu, X. Tu (Institute of Geology and Geophysics, Chinese Academy of Sciences (IGGCAS)) Speaker: Qihui Zhen

EMME P1 Eastern Mediterranean, Middle East, Europe, and Caspian Region

3:40 p.m.-5:20 p.m.

Session Chairs: Christoph Lehmann and Alicia Staszyc

Location: Poster Location 1 (on the 3rd level)

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- Station E....Simultaneous Reconstruction and Deblending for

 Compressed Sensing ISS Data: S. Chen¹, J. Song¹, Y. Wang¹,

 M. Mahgoub², S. A. Al Mesaabi², D. Arnold², H. Tang¹, J. Sun¹,

 J. Jiang¹ (1. BGP; 2. ADNOC) Speaker: Shuangting Chen
- Station F....Ai-driven subsurface characterization for secure CO₂
 storage: A data-integrated approach: N. S. Alnaser¹, O.
 Shaikh², S. Nasser¹ (1. Aramco; 2. Saudi Aramco) Speaker:
 Naser Alnaser

FWI P5 Theory and Methods 2

3:40 p.m.-5:20 p.m.

Session Chairs: Sizhuang Deng and Fuchun Gao Location: Poster Location 5 (in the Exhibit Hall)

- Station E....Bayesian full waveform inversion using Stein variational gradient descent and manifold projections: M. H. Taufik, T. Alkhalifah (KAUST) Speaker: Mohammad Taufik
- Station F....Characteristic reflection traveltime inversion using an improved cross-correlation method: C. Wu, H. Wang, B. Feng, R. Xu, Z. Nie, J. Xiang, C. Ning (Tongji University) Speaker: Chengliang Wu
- Station G ...Efficient Bayesian inference for full waveform inversion: An overview of modern approaches: P. Marchner¹, R. Brossier¹, L. Métivier² (1. Univ Grenoble Alpes; 2. CNRS) Speaker: Philippe Marchner
- Station H...**ADMM-based TV-regularized Joint time-lapse FWI:** T. Rolin¹, D. Auroux², L. Combe¹, S. Operto¹ (1. UCA-CNRS; 2. University Côte d'Azur) Speaker: Stephane Operto

FWI P6 Machine Learning 3

3:40 p.m.-5:20 p.m.

Session Chairs: Weiping Cao and Soumya Roy
Location: Poster Location 6 (in the Exhibit Hall)

- Station E....Full-waveform variational inference with full commonimage gathers and diffusion network: Y. Zeng¹, H.
 Erdinc¹, R. Orozco², F. J. Herrmann¹ (1. Georgia Institute of Technology; 2. Occidental Petroleum) Speaker: Yunlin Zeng
- Station F....Full waveform inversion with CNN-based velocity representation extension: Field data application: X. Mu, O. M. Saad, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Xinru Mu
- Station G ...Conditioning Low-Frequency FWI Updates using Diffusion Networks Trained on Deepwater Field Data: J. D. Stitt², E. Wang¹, G. Shan¹, U. Albertin¹, M. Fan¹ (1. Chevron; 2. Stanford University) Speaker: Joseph Stitt
- Station H...**Diffusion generative model for full waveform inversion:** Y. Shen, Y. Chen, B. Engquist (University of Texas at Austin) Speaker: Yiran Shen

GI P1 Case Studies 1

3:40 p.m.-5:20 p.m.

Session Chairs: Michael McGlashan and Linda Price

Location: Poster Location 2 (on the 3rd level)

- Station E....Implementing OSDU EDI: A transformative opportunity at Occidental Petroleum: A. Belknap¹, R. Bhosale¹, W. Frazao² (1. Oxy; 2. AWS) Speaker: Alkesta Belknap
- Station F....Quantifying the spatial heterogeneity of attributes in sandstones with point pattern analysis: Z. Ju, W. Yang (Missouri University of Science and Technology) Speaker: Ziyue Ju

- Station G ...An Innovative Machine Learning Approach for Automated Calibration of Static and Dynamic Reservoir Models: A

 Case Study of the Umm Gudair Field, Kuwait: M. Sitouah²,
 N. Al-Kudhur¹, J. Al-shatti¹, A. Akbar¹, S. Al-lanqawi¹, M. Al-mutairi¹, K. Morsal², M. Mihai², M. Abd El Dayem² (1. KOC; 2. SLB) Speaker: Mohamed Sitouah
- Station H ... Towards generative modeling of CO₂ geological storage with latent conditional diffusion models: V. De Pellegrini, T. Alkhalifah (KAUST) Speaker: Vittoria De Pellegrini

INT P6 Geologic Stories

3:40 p.m.-5:20 p.m.

Session Chairs: Chadwick Holmes and Zhaohui Xu

Location: Poster Location 4 (on the 3rd level)

- Station E....Response of facies to Quaternary climate change over the past 1.51 Ma in Taidong area of Qaidam Basin, NW China: Z. Xu¹, G. Liu², H. Zeng³, J. Li², J. Li¹, J. Tian¹, C. Lin⁴ (1. RIPED, CNPC; 2. PetroChina Qinghai Oilfield Company; 3. The University of Texas at Austin; 4. School of Earth Sciences and Engineering, Nanjing University) Speaker: Zhaohui Xu
- Station F....Provenance of uppermost Carboniferous-Lower Triassic sandstones, Bogda Mountains, NW China: Implication on late Paleozoic tectonic history of southern Central Asian Orogenic Belt: S. Wu, W. Yang (Missouri University of Science and Technology) Speaker: Sixuan Wu
- Station G ...Influence of Microbial Mat on the Sedimentary Dynamics and Stratigraphy of the Aaron Formation in the South Fork of Little River, Durham County, North Carolina: V. Akudoro (Old Dominion University) Speaker: Victor Akudoro
- Station H ...The paleogeographic evolution of the South Atlantic during the Early Cretaceous: A more complex story than we thought: P. J. Markwick¹, D. Paton², M. C. Araujo³, J. Naliboff⁴, T. Rajaonarison⁴ (1. Knowing Earth; 2. Tectonknow; 3. Petrobras; 4. New Mexico Tech) Speaker: Paul Markwick

INT P7 New Exploration Aspects

3:40 p.m.-5:20 p.m.

Session Chairs: Shashin Sharan and Jonathan Stewart

Location: Poster Location 5 (on the 3rd level)

- Station E....Distribution and controls of hydrocarbon seepage in the Gulf of America: M. Lawal¹, A. E. Cook¹, A. Portnov², A. Kumar¹ (1. The Ohio State University; 2. Instituto Andaluz de Ciencias de la Tierra) Speaker: Muhedeen Lawal
- Station F....The favourable exploration direction and accumulation conditions of the high-energy Granular beach in the first section of the Canglangpu Formation in northern Sichuan basin: Q. Jiang, H. Jiang, S. Huang, W. Lu (Research Institute of Petroleum Exploration & Development) Speaker: Hua Jiang
- Station G ... Salt-sediment interactions revisited: How do near-salt reservoir prediction frameworks compare?: D. Lankford-Bravo, P. Morris, A. Omale, J. Miller, F. McFarlin, P. Hargrove (bp) Speaker: David Lankford-Bravo
- Station H...Evaluation of hydrocarbon potential in the Egyptian Red Sea: A focus on the southern province and implications for future exploration: N. K. Aref¹, C. Tu², S. AbdelRahim¹, A. Galil¹, f. ragheb¹, W. Badr², A. Mostafa¹, R. B. Nafea², M. Hassan¹ (1. Ganope; 2. SLB) Speaker: Nourhan Aref

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INTD P1 Seismic Data Integration and Utilization 2

3:40 p.m.-5:20 p.m.

Session Chairs: Jacob Jackson and Shuzhen Ye

Location: Poster Location 3 (on the 3rd level)

Station E.... System and Methods for Intelligent Data Discovery and Global Basin Analytics on OSDU: P. Saraswat (Querent Al LLC) Speaker: Puneet Saraswat

Station F.... Exploration Technology Fusion: Connecting Subsurface Data to HPC Insights: J. Hisee³, P. Thompson³, A. Huang², Y. Gubanov¹, D. Tishechkin¹ (1. Amazon Web Services; 2. Seagate Technology; 3. Petrosys | Interica) Speaker: Yuriy Gubanov

Station G ... Prospect assessment: Enhancing data integration and domain collaboration: M. Neumaier, B. Kurtenbach, I. Bryant (Ariane Logix) Speaker: Martin Neumaier

Station H...Top Three Plays: Performance and Resource Analysis of Bakken, Eagle Ford, and Wolfcamp: R. Sorkhabi, P. Panja, M. Deo (University of Utah) Speaker: Rasoul Sorkhabi

SP P5 Elastic Data

3:40 p.m.-5:20 p.m.

Session Chairs: Chaoquang Zhou and Feng Zhu Location: Poster Location 3 (in the Exhibit Hall)

Station E....SV/SH or S1/S2 separation for 4C SS-wave seismic data with non-orthogonal horizontal sources: Y. Yue (BGP) Speaker: Yuanyuan Yue

Station F.... Data-domain Separation of P- and S- waves in Marine Seismic Exploration through Helmholtz Decomposition and Downward Continuation: H. Hong, S. Choi, Y. Cho (Seoul National University) Speaker: Heeju Hong

Station G ... Application of OVT Domain Azimuthal Imaging Technology in the Detailed Characterization of Carbonate Fracture-Cavity Reservoir: L. Zheng, S. Zhang, B. Zhu, Q. Lv, W. Zhang, Y. Ma (Sinopec Geophysical Research Institute) Speaker: Wei Zhang

Station H ... Prediction of glutenite reservoir based on OVT dominant azimuth elastic impedance inversion: H. Luo, C. Wang, J. Zhang, X. Guan (Exploration and Development Research Institute of Shengli Oilfield) Speaker: Hongmei Luo

SP P6 Beam Migration and Elastic RTM

3:40 p.m.-5:20 p.m.

Session Chairs: Hongyan Li and Sam Whitehead

Location: Poster Location 4 (in the Exhibit Hall)

Station E....Full-azimuth Imaging Technology Based on Gaussian Beam Theory: N. Qin, J. Xiao, S. Zhang (Shengli Geophysical Research Institute of Sinopec) Speaker: Ning Qin

Station F....Beam-driven converted wave salt halo removal: S. Brown¹, J. W. Sherwood¹, K. Sherwood¹, D. Hale¹, S. Whitehead², B. Duquet², V. Duprat² (1. Geo Ex Machina; 2. TotalEnergies) Speaker: Sam Brown

Station G ... Case Studies on 3Q Migration Techniques in the Loess Plateau of the Ordos Basin, China: F. Li, P. Duan, Y. Huang, J. Chen, L. Xu (Exploration and Development Research Institute of Changqing Oilfield Branch Company Ltd., PetroChina) Speaker: Peiran Duan

Station H... Anisotropic Elastic Reverse Time Migration with Dynamically Focused Beams: N. Qin, J. Xiao (Shengli Geophysical Research Institute of Sinopec) Speaker: Ning Qin

STUD P2 Seismic Imaging and Analysis

3:40 p.m.-5:20 p.m.

Session Chairs: Yanhua Liu and Alden Netto Location: Poster Location 2 (in the Exhibit Hall)

Station E.... Monitoring CO₂ leakage safety in saline aquifer using timelapse seismic imaging: Y. Dong, Y. Shen, Q. Mao (China University of Petroleum (East China)) Speaker: Yanjiao Dong

Station F.... Classification of Seamounts in the Northern Atlantic via joint analysis of Bathymetry and Seismic Reflection data: M. Salman¹, I. Filina² (1. University of Nebraska-Lincoln; 2. University) Speaker: Md Abdullah Salman

Station G ... One-way migration with attenuation compensation using Lloyd algorithm: X. Liu, Y. Shen (China University of Petroleum (East China)) Speaker: Xiuchuan Liu

Station H...Bridge monitoring using traffic-induced passive seismic data recorded by distributed acoustic sensing: Z. Li¹, Y. Shen¹, X. Huang², S. Xu², D. Fang² (1. China University of Petroleum (East China); 2. Smart Earth Sensing (Hefei) Technology Co., Ltd.) Speaker: Ziyuan Li

STUD P3 Innovations in Geophysical Methods

3:40 p.m.-5:20 p.m.

Session Chairs: Zhilong Fang and Wanying Wang

Location: Poster Location 7 (in the Exhibit Hall)

Station E....Low-frequency recovery of full waveform inversion based on the collaboration of CNN and Transformer: X. Wu (China University of Petroleum (East China)) Speaker: Xiaoyi Wu

Station F....Crustal structures of the conjugate Vøring and Greenland margin: A\ multi-geophysical approach: A. Mayeesha, K. Steinauer, I. Filina (University of Nebraska-Lincoln) Speaker: Anika Nawar Mayeesha

Station G ... Impedance inversion using bi-directional deconvolution: L. Wang¹, Y. Shen¹, W. Peng¹, J. Chen² (1. China University of Petroleum (East China); 2. Shanghai Jiao Tong University) Speaker: Linlin Wang

Station H...An acoustic wave equation with velocity and density gradients and its amplitude versus angle analysis: Z. Xu1, Y. Shen¹, W. Peng² (1. China University of Petroleum (East China); 2. China University of Petroleum (East China) (Non-Author)) Speaker: Weiting Peng



Wednesday, 27 August

DMLA P5 Seismic Interpretation 1

8:00 a.m.-9:40 a.m.

Session Chairs: Wen Pan and Son Phan

Location: Poster Location 7 (on the 3rd level)

Station A ... Perceptual Seismic Segmentation using Meta's Segment **Anything Model 2:** A. Gala, E. Bozcal (Shell) Speaker: Apurva Gala

Station B ... Application of t-distributed stochastic neighbor embedding (t-SNE) in seismic waveform classifications in central Sichuan Basin, China: H. Yang¹, Z. Zhang², W. Wei², Y. Wang², M. Maheuti¹, Y. Li¹, J. Song¹ (1. Research Institute of Petroleum Exploration & Development, CNPC; 2. Research Institute of Petroleum E&D, Tarim Oil field Company, PetroChina) Speaker: Hao Yang

Station C ... Enhanced fault identification in 3D seismic data through RANSAC-based segmentation: T. B. Grant¹, P. C. Abuchi², V. M. Rotar¹ (1. Cegal AS; 2. University of Stavanger) Speaker: Vlad Rotar

Station D ...Intelligent prediction technique for micro-fault by seismic multi-attribute fusion enhancement: X. Wang¹, v. li¹, F. Wu¹, Y. Zhu¹, X. Yang¹, D. Zhang², Y. Zhang¹ (1. CNPC; 2. Petro China Southwest Oil & Gas-field Company) Speaker: Xiaolan

GEOPS P1 From the Lab to the Project: Applying Data to Solve Problems

8:00 a.m.-9:40 a.m.

Session Chairs: Stamatina Hunter and Constantin Sandu

Location: Poster Location 1 (on the 3rd level)

Station A ... WITHDRAWN

Station B ... H2 generation yield of iron bearing rocks deduced from the Hydrogen-Eval open hydrous pyrolysis: N. Bouton¹, J. Ammouial¹, O. Sissmann², I. Moretti³ (1. Vinci Technologies; 2. IFPen; 3. UPPA) Speaker: Nicolas Bouton

Station C ... Spectral gamma ray on well-cuttings for depth calibration and biostratigraphic precision: T. Boesiger, P. M. Konerding, X. Liu (Ellington Geological Services) Speaker: Todd **Boesiger**

Station D ... Gold tube based oil and gas extraction from shale and tight cuttings at ultra-high pressure, reservoir temperature and actual fluid loadings: S. Wu¹, A. Sneddon², F. Gou³, L. Lu¹, H. Gou³ (1. Power Energy and Environmental Research Institute; 2. Midcon Well Logging; 3. Solid Services) Speaker: Sheng

GEOPS P2 From Details to Big Picture

8:00 a.m.-9:40 a.m.

Session Chairs: Adam Hoffmann and Vann Smith

Location: Poster Location 2 (on the 3rd level)

Station A ... Evaluating Gas Migration Patterns in Complex Unconventional Deep Tight Gas Sandstone Formation: M. A. Alrowaie, S. M. Qathami, M. Assadig, Z. Almubarak (Saudi Arabian Oil Co) Speaker: Mohammad Alrowaie

Station B ... Neoichnology of Hypersaline Environments: Evidence from the Eastern Coast of Saudi Arabia: K. Ayranci¹, I. A. AlHilali¹, A. Abdlmutalib², S. D. Prayudi¹, M. A. Kaminski¹, A. D. LaCroix³, S. E. Dashtgard⁴ (1. King Fahd University of Petroleum and Minerals; 2. College of Petroleum

Engineering and Geosciences; 3. Sedimentary Environments and Analogues Research Group, Earth and Environmental Sciences; 4. Simon Fraser University) Speaker: Korhan

Station C ... A chemometric machine learning framework for oil classification: A California case study: K. A. Bennett, A. Vielma, J. Curiale, T. B. Malloy, J. Radovic (University of Houston) Speaker: Kyra Bennett

Station D ... Machine Learning for Predicting Geochemical Composition in the Middle to Upper Devonian Horn River Shale: A **Data-Driven Approach to Subsurface Characterization:** A. Abdlmutalib¹, K. Ayranci¹, U. Waheed¹, N. B. Harris² (1. King Fahd University of Petroleum and Minerals; 2. University of Alberta) Speaker: Ammar Abdlmutalib

RC P1 Geomorphology

8:00 a.m.-9:40 a.m.

Session Chairs: Francisco Bolivar and Huyen Bui

Location: Poster Location 5 (on the 3rd level)

Station A ... Fine characterization technique of concealed channel driven by time-frequency domain data: S. Dai, Z. Sun, J. Tang, J. Li, T. Zhu, H. hu (Sinopec Geophysical Research) Institute Co., Ltd.) Speaker: Tong Zhu

Station B ... Seismic attribute analysis for subtle structural and stratigraphy features in the Miocene-Pliocene Agbada Formation, offshore Niger Delta: O. F. Obasuyi¹, K. Doro³, A. olubola², E. S. Akanbi⁴, Y. A. Adevemi⁵ (1. University of Basilicata; 2. Federal University of Technology; 3. University of Toledo; 4. University of Jos; 5. Ulster University) Speaker: Osasogie Obasuyi

Station C ... Multispectral UAS-Based Analysis of Fluvial Sandstones and Stratigraphic Architecture of the Upper Cretaceous Williams Fork Formation, CO: J. Tellez, M. Bishop (Colorado Mesa University) Speaker: Maddie Bishop

Station D ... WITHDRAWN

RC P2 Applications 1

8:00 a.m.-9:40 a.m.

Session Chairs: Umberto Barbato and Jessica Matthews

Location: Poster Location 6 (on the 3rd level)

Station A ... Geomechanical property evaluation of the Pennsylvanian Strawn-Canyon Group using machine-learning methods: Insights from the Salt Creek Field, Midland Basin, Kent County, West Texas: O. Ogiesoba (Bureau of Economic Geology, The University of Texas at Austin) Speaker: Osareni Ogiesoba

Station B ... Advancements in Petrophysics: Data-Driven Lithofacies **Identification in Cretaceous Sandstone Using Supervised** Machine Learning: M. Malik¹, J. Leung¹, M. Malik², M. T. Malik³, M. A. Haider³ (1. University of Alberta; 2. Pakistan Oilfield Limited; 3. University of Punjab) Speaker: Muhammad Bilal Malik

Station C ... Development of a 1D Mechanical Earth Model and Fracture Analysis at the HFTS-1 Site, Midland Basin: B. Sasmaz, C. M. Sayers, Y. Zheng (University of Houston) Speaker: Bilge

Station D ... Application of multi-scale thin reservoir comprehensive prediction based on multi-information fusion in the HQ **Block:** Y. Yuan¹, H. Zhanq¹, Z. Chen¹, W. Xiao², P. Gao¹, W.

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Jiao², P. Guo¹, W. Li¹, P. Cheng¹, Y. Zhang¹, P. Wang¹, X. Jia¹ (1. BGP, CNPC; 2. Yumen Oilfield) Speaker: Yunchao Yuan

USC P1 Studies of Geologic and Geophysical Processes: Permian Basin and Eastern Shelf System 2

8:00 a.m.-9:40 a.m.

Session Chairs: Cucha Lopez and Mitch Schneider

Location: Poster Location 3 (on the 3rd level)

- Station A ... Correlation of Jurassic source rocks and basin evolution of the North Slope and Southern Alaska: E. D. Ruiz Toro, P. Mann (University of Houston) Speaker: Estefani Ruiz Toro
- Station B ...Improving estimates of recoverable oil with increased drilling density through applying 3D property volumes: C.
 A. Snow¹, M. Mayer², K. Gonzalez² (1. Danomics Inc; 2. TGS)
 Speaker: Matt Mayer
- Station C ... Salt-Water Disposal Associated Seismicity in a Proterozoic Fold and Thrust Front, Delaware Basin, New Mexico: C. J. Lopez (ExxonMobil) Speaker: Carlos Lopez
- Station D ... An unconventional approach fit for purpose geologic modeling in the Poker Lake Unit, Delaware Basin, New Mexico: T. Moraes (ExxonMobil) Speaker: Tony Moraes

USC P2 Studies of Geologic and Geophysical Processes: North America

8:00 a.m.-9:40 a.m.

Session Chairs: Anubhav Kohli and Travis Moreland

Location: Poster Location 4 (on the 3rd level)

- Station A ...Compressional Tectonics and Fracture Patterns of Redtail
 Area, Denver Basin: C. Sahinkaya Akyol, S. Sonnenberg
 (Colorado School of Mines) Speaker: Ceyhan Sahinkaya
 Akyol
- Station B ... Statewide assessment of CO₂ storage capacity for the lower Paleozoic strata, Oklahoma: A. Turnini, M. J. Pranter (University of Oklahoma) Speaker: Anna Turnini
- Station C ...Direct Lithium Extraction (DLE) in the United States

 technical and regulatory challenges, and potential
 environmental implications: R. Russell, S. Bhattacharya,
 D. Kingham, L. Molofsky (GSI Environmental Inc.) Speaker:
 Roberta Russell
- Station D ... Teapot Dome Oil Field Characterization Using the
 Reverse Time Holography Method: G. N. Erokhin (Geomex
 Technologies) Speaker: Gennady Erokhin

BH P1 Seismic

10:20 a.m.-12:00 p.m.

Session Chairs: Brian Hornby and Michel Verliac

Location: Poster Location 3 (in the Exhibit Hall)

- Station E....Application of integrated borehole-surface acquisition technology in unconventional oil and gas exploration in Songliao Basin: C. Ding (Optical Science and Technology (Chengdu) Ltd.) Speaker: Chuanqi Ding
- Station F....Continuous DAS-VSP during CCUS operations using
 Portable Active Seismic Source: S. Nakayama¹, T. Uchigaki¹,
 A. Takahashi², T. Tsuji³, J. Kinoshita², T. Hamajima², T. Mouri⁴
 (1. INPEX Corporation; 2. Wavelet, Inc.; 3. The University of Tokyo; 4. JOGMEC) Speaker: Shotaro Nakayama
- Station G ...Disposable fiber delivers robust near-surface velocity profile in a shallow water-supply well: A. AlDawood,

- A. Shaiban, E. Alfataierge (Saudi Aramco) Speaker: Ali
- Station H...Near wellbore monitoring in EGS using fiber optic sensing and seismic interferometry: X. Zhu¹, J. Ajo-Franklin¹, M. Chamarczuk², Y. Ma¹ (1. Rice University; 2. Los Alamos National Laboratory) Speaker: Xiaoyu Zhu

FWI P7 Novel Approaches and Workflows 1

10:20 a.m.-12:00 p.m.

Session Chairs: John Brittan and Changhua Zhang

Location: Poster Location 6 (in the Exhibit Hall)

- Station A ...Deep learning full waveform inversion with dynamic matching filtering: C. Li, S. Fomel, Y. Chen (University of Texas at Austin) Speaker: Chao Li
- Station B ...High-resolution full waveform inversion focused on target area by using the visco-acoustic redatumed data: Z. Yan, Y. Li (China University of Petroleum (East China)) Speaker: Zhuoqi Yan
- Station C ... Neural representation-based waveform inversion via coupled foundational and generative networks: R. Harsuko, S. Cheng, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Randy Harsuko
- Station D ...Full-waveform inversion with a symmetric-form acoustic

 VTI wave equation: G. Yao, B. Wu, P. Zhang, N. Liu, D. Wu

 (China University of Petroleum (Beijing)) Speaker: Gang Yao

GEOPS P3 Petroleum System Applications for Exploration

10:20 a.m.-12:00 p.m.

Session Chairs: Josh Brownlow and Poorna Srinivasan

Location: Poster Location 1 (on the 3rd level)

- Station E....Advancing Techniques for Assessing Changes in Geological Properties Associated with CO₂ Sequestration Using Micro-CT Imaging: G. C. Thakur, M. Khan, D. Siddiqui, L. Hathon (University of Houston) Speaker: Muhammad Khan
- Station F....Anomalous hydrogen and noble gas isotope trends in thermally overmature Marcellus Formation natural gases, Allegheny structural front, North-Central Appalachian orogen USA: C. D. Laughrey¹, M. T. Moore¹, E. Hudson², D. Vance² (1. Stratum Reservoir; 2. Inflection Energy) Speaker: Christopher Laughrey
- Station G ... Distribution and Exploration Prospects for the Global
 Lithostratigraphic Reservoirs: Z. Li (PetroChina) Speaker:
 Zhi Li
- Station H...Geologic Evolution of the Central Basin Platform, Diablo
 Platform, and Delaware Basin Depocenter Based on
 Measured Vitrinite Reflectance and Apatite Fission Track
 Analysis: A. Buffington, M. Becker, J. Laya (Texas A&M
 University) Speaker: Allison Buffington

NS P3 Fiberoptic Sensing

10:20 a.m.-12:00 p.m.

Session Chairs: Rui Zhang and Tieyuan Zhu

Location: Poster Location 7 (in the Exhibit Hall)

Station A ...Semi-automated near-surface characterization using ambient noise Distributed Acoustic Sensing (DAS) data: N. Punithan¹, E. Martin¹, J. C. Shragge¹, A. Tourei¹, I. Lim Chen Ning² (1. Colorado School of Mines; 2. Chevron) Speaker: Nikhil Punithan



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- Station B ... Deciphering Urban Pulsations: Passive Seismic Imaging Based on Distributed Acoustic Sensing (DAS): K. Zhao, F. Cheng, J. Guan (Zhejiang University) Speaker: Ke Zhao
- Station C ... Sensing environmental conditions in fiber-optic DAS and DTS using a field study of varying installation: S. Sayyadi¹, C. Kratt¹, M. Hausner³, E. Martin², M. E. Wengrove⁴, H. E. Glover⁴, A. Harpold¹ (1. University of Nevada; 2. Colorado School of Mines; 3. Desert Research Institute; 4. Oregon State University) Speaker: Sara Sayyadi
- Station D ... Data-driven Road Condition Monitoring from Continuous DAS Data: J. Wang¹, Y. Li¹, T. Zhu² (1. Purdue University; 2. Penn State University) Speaker: Jiguan Wang

NS P4 Hydrogeophysical Applications

10:20 a.m.-12:00 p.m.

Session Chairs: Marco Couto and Raymond Hess

Location: Poster Location 7 (in the Exhibit Hall) Station E....Quantifying surface-subsurface water fluxes in an

- intermittent stream using self-potential measurements and a coupled hydrological-electrical model: M. B. Adebayo¹, M. Dumont¹, S. Rathore², S. L. Painter², E. Herndon², E. Pierce², K. Singha¹ (1. Colorado School of Mines; 2. Oak Ridge National Laboratory) Speaker: Moses Adebayo
- Station F.... Multichannel Analysis of Surface Waves for S-Wave **Inversion in Dam Leakage Detection with Distributed** Acoustic Sensing: S. Hao¹, Y. Shen¹, Y. Liu², H. Hu² (1. China University of Petroleum (East China): 2. Ningbo AllianStream Photonics Technology Co., Ltd) Speaker: Shengnan Hao
- Station G ... Imaging seawater infiltration pathways with frequency domain electromagnetic data: A case study of data acquired from the Saemangeum Seawall crest: H. Kang, S. Seol, J. Byun (Hanynag University) Speaker: Hyeonwoo Kang
- Station H...Integrated geophysical and hydrogeological study of groundwater resources in Saraya, Kédougou: Combining scientific research and community education: M. Fall (UCAD) Speaker: Mame Diarra Fall

RC P3 Applications in Carbonates

10:20 a.m.-12:00 p.m.

Session Chairs: Kimbra Quezergue and Simon Voisey

Location: Poster Location 5 (on the 3rd level)

- Station E.... Weakly Supervised Two-Step CNN for Karst Cave Detection and High-Production Sweet Spot Prediction in Carbonate Reservoirs: H. Wang¹, S. Cai¹, C. Dai¹, Z. Chen¹, Y. Xiao² (1. Petroleum Exploration and Production Research Institute, SINOPEC; 2. Sinopec) Speaker: Han Wang
- Station F....Quantitative characterization method for paleokarst channel thickness based on frequency attenuation gradient: H. Lv, L. Yin, C. Zhang, Z. Sun (Sinopec Geophysical Research Institute Co., Ltd) Speaker: Hui Lv
- Station G ... Formation-Specific Porosity-Seismic Statistical Analysis in the Delaware Basin for CO₂ Storage Applications: T. Ude-Akpeh¹, C. Onyeakusi¹, J. Lee¹, R. Trentham¹, M. Henderson¹, C. Cagle², R. Dupree² (1. University of Texas Permian Basin; 2. Omnia Midstream Partners) Speaker: Jake Lee

RP P3 Machine Learning and Digital Rock Applications

10:20 a.m.-12:00 p.m.

Session Chairs: Gama Firdaus and Laurent Louis

Location: Poster Location 6 (on the 3rd level)

- Station E....Seismic fault identification using a hybrid resnet-unet architecture: J. Lalngaihawma, S. Kalyankar, A. Malkoti, N. Vedanti (CSIR-National Geophysical Research Institute) Speaker: Joseph Lalngaihawma
- Station F.... Prediction of 3D fluid velocity fields in fractured media using multiscale network for hierarchical regression (msnet): Q. Zhou, X. Ma, M. Prodanović, M. Pyrcz (University of Texas at Austin) Speaker: Qiangian Zhou
- Station G ... More Than Chatbots: Exploring Reservoir Properties Estimation with LLM: T. Lin1, W. Li1, A. Al-Ali2 (1. Aramco Americas: Aramco Research Center – Houston; 2. Aramco) Speaker: Tao Lin
- Station H...Bayesian Inversion of Fracture Networks Using rjMCMC on Fluid dynamic and Seismic Data: S. Al Nasser (Saudi Aramco) Speaker: Saleh Al Nasser

RP P4 Modeling and Applications

10:20 a.m.-12:00 p.m.

Session Chairs: Stephan Gelinsky and Mandy Schindler

Location: Poster Location 7 (on the 3rd level)

- Station E....Dynamic-static elastic parameters transformation models for lacustrine shales in PG aera: M. L, Y. Wang, H. Shen, C. Li, W. Fan (SINOPEC Geophysical Research Institute, Co., Ltd) Speaker: Min Li
- Station F.... Effects of crack distribution characteristics on the elastic properties of multiple-cracked rocks: J. Cheng¹, Y. Li¹, K. Zhang², X. Xu², C. Zhang¹, Y. Chen¹ (1. Research Institute of Petroleum Exploration and Development; 2. CNPC Andes (Ecuador) Company Limited) Speaker: Jiwei Cheng
- Station G...Role of seismically derived porosity prediction in the formulation of enhanced field development strategy in Ratawi formation, Khafji Offshore Field: A. F. Al-Awadh¹, O. Aly², A. Al-Sultan¹ (1. Khafji Joint Operation; 2. SLB) Speaker: Ahmad Al-Awadh
- Station H...Elastic property statistics: Does scale matter?: V. L. De Mello, K. Spikes (The University of Texas at Austin) Speaker: Vitor De Mello

SILIC P1 Advanced Techniques in Sedimentary System Analysis

10:20 a.m.-12:00 p.m.

Session Chairs: Kevin Bohacs and Mauricio Perillo

Location: Poster Location 2 (on the 3rd level)

- Station E.... Satellite-Based Delta Characterization via Latent Space: N. Chacon Buitrago (UT Austin) Speaker: Nataly Chacon Buitrago
- Station F....An integrated approach to understanding geological controls on sand connectivity and stratigraphic trap formation in deep-water sedimentary systems: T. C. Empinotti², D. M. Hodgson¹, C. M. Hercos² (1. University of Leeds; 2. Petrobras) Speaker: Thais Empinotti
- Station G ... Multidisciplinary Characterization of the lower Jilh Formation: Insights from central Saudi Arabia: K. Ayranci, L. A. Insuasti (King Fahd University of Petroleum and Minerals) Speaker: Korhan Ayranci

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Station H...South Viking Graben, Norway: Play potential of deep Upper Jurassic mass transport complex (MTC) revealed by multiazimuth and ocean bottom node seismic data: E. Mueller, J. Beenfeldt (TGS) Speaker: Eric Mueller

SMT P1 Seismic Applications, Tomography, Geological Interpretation, and Stratigraphy

10:20 a.m.-12:00 p.m.

Session Chairs: James McLeman and Peng Shen

Location: Poster Location 1 (in the Exhibit Hall)

- Station E....A Novel Shortest-Path Fast Sweeping Method for High-Accuracy Traveltime Calculation: J. Zhang¹, L. Dong², Y. Liu², P. Han² (1. Key Lab of Submarine Geosciences and Prospecting Techniques, MOE and College of Marine Geosciences, Ocean University of China; 2. Tongji University) Speaker: Jianming Zhang
- Station F....Multimodal Stochastic Characterization of Subsurface
 Angle Gathers with Applications to Diffraction Imaging of
 Karsts: M. Maharramov, B. Yu, V. Lopez, M. Zhou (Sinopec
 Tech Houston) Speaker: Musa Maharramov
- Station G.... Analysis of the impact of migration velocity variations on seismic response characteristics of karst-cavity reservoirs:

 Y. Yuan¹, H. Zhang² (1. Sinopec Geophysical Research Institute CO., LTD; 2. China University of Petroleum, Karamay Campus (Non-Author)) Speaker: Haoran Zhang

SMT P2 Reverse Time Migration, Multiple Imaging, and Elastic Imaging and Model-building

10:20 a.m.-12:00 p.m.

Session Chairs: Xiang Li and Michael McGlashan

Location: Poster Location 2 (in the Exhibit Hall)

- Station E....**3D elastic RTM via efficient tensor decomposition-guided wavefield compression:** Y. Tang (Southern University of
 Science and Technology) Speaker: Yongjie Tang
- Station F....Seismic forward modelling and reverse time migration of order-separated free surface multiples using dipole source approximation: Z. Wang¹, J. Yang¹, J. Zhang¹, H. Zheng² (1. Sinopec Geophysical Research Institute; 2. Sinopec Geophysical Research Institute (Non-Author)) Speaker: Hao Zheng
- Station G ...Modeling water-layer-related multiples in ocean-bottom surveys and investigating associated elastic imaging artifacts caused by crosstalk: B. Han¹, W. Mao¹, X. Xie² (1. Innovation Academy for Precision Measurement Science and Technology, CAS; 2. University of California Santa Cruz) Speaker: Bingkai Han
- Station H...**Dual-Complex Model building and Seismic Simulation for Western China:** W. Wu, L. Peiming, H. Yu, Y. Liu, Y. Fang, H. Zhao (BGP Inc., CNPC) Speaker: Wei Wu

SP P7 Complex and Diffraction Imaging

10:20 a.m.-12:00 p.m.

Session Chairs: Yang Liu and Feng Zhu

Location: Poster Location 4 (in the Exhibit Hall)

- Station E....Relation between dips of prestack time migrated and unmigrated data: 3D case: J. Singh (ONGC Ltd.) Speaker:

 Jagmeet Singh
- Station F....Considering temporal variations in seismic data for deep Learning-Based diffraction extraction: J. Park¹, S. Kim², S.

- Seol¹, J. Byun¹ (1. Hanyang University (RISE.ML); 2. Korea Institute of Geoscience and Mineral Resources) Speaker: Junyon Park
- Station G ...Fresnel steady-state diffraction imaging on dip angle gather for fracture-cave reservoirs: Z. Liu, T. LIU (Sinopec Petroleum Exploration and Production Research Institute) Speaker: Zhi Yuan Liu
- Station H...Local Directional Projection (LDP) specularity weights for enhancing and characterizing seismic reflectivity images: O. Kletenik-Edelman, A. Zaslavsky, M. Shustak, R. Levy, Z. Koren (AspenTech) Speaker: Orly Kletenik-Edelman

SP P8 Imaging Enhancement

10:20 a.m.-12:00 p.m.

Session Chairs: Thais Sales and Charles Ursenbach

Location: Poster Location 5 (in the Exhibit Hall)

- Station E....Seismic denoising based on self-supervised guided filter network: B. Ni¹, X. Wang¹, Y. Sui² (1. Beijing Jiaotong University; 2. Aramco Research Center Beijing) Speaker: Baoli Ni
- Station F....Deep learning framework for the removal of low-frequency noise from reverse time migration: D. Deng, Y. Liu, G. Chen (China University of Petroleum (Beijing)) Speaker: Dingding Deng
- Station G ...Imaging improvement for towed-streamer data using OBN data based on deep learning: H. Zhang, Z. Li, P. Wang, Z. He, Q. Zhang, Z. Yu, B. Zhao (China University of Petroleum) Speaker: Zhina Li
- Station H .. High-Resolution Processing of Seismic Data Based on Stratigraphic Constraints Using 3D U-Net: N. XI, Z. Cao, Y. Liu (China University of Petroleum - Beijing) Speaker: Nian XII XI

STGM P1 Faults, Fractures, and Fluids 4

10:20 a.m.-12:00 p.m.

Session Chairs: David Forand and Eric Peavey

Location: Poster Location 3 (on the 3rd level)

Station E....WITHDRAWN

- Station F....Effect of dissolution-promoting, pore-expanding and permeability-increasing by structural fractures of ultradeep sandstone in Kuqa depression, NW China: Q. Zeng, L. Zhang (China University of Petroleum (East China)) Speaker: Qinglu Zeng
- Station G ...Fracturing in basinal siliciclastic sedimentary deposits of the Wolfcampian Alta Formation, Marfa Basin, west Texas: D. A. Ferrill¹, K. Smart¹, A. Cawood¹, D. Lehrmann², G. Zanoni³, R. King³ (1. Southwest Research Institute; 2. Trinity University; 3. RohmTek) Speaker: David Ferrill
- Station H ...Deep learning-based approach to mapping fault density on seismic data: T. Q. Agbaje (University of Texas at Austin)

 Speaker: Tolulope Agbaje

STGM P2 Petroleum System Tectonics and Structural Styles: Lithosphere to Thin Section 2

10:20 a.m.-12:00 p.m.

Session Chairs: Alissa Henza and Yanpeng Sun

Location: Poster Location 4 (on the 3rd level)

Station E....Enhancement of gravity data for the geological characterization of the continental margin of southeastern

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- **Brazil:** K. Sampaio, L. G. Miquelutti, M. Cetale (Fluminense Federal University) Speaker: Leonardo Miquelutti
- Station F....Temporal Fractal Strain Localization in the Non-Volcanic Albertine Rift Basin Using Seismic and Well Data: O. I. Abbey, A. B. Katumwehe (Oklahoma State University) Speaker: Oluwasegun Abbey
- Station G ... Who's fault is this? It's not my fault: A study on the importance of fault seal analysis during exploration, drilling and production in the Columbus Basin, offshore Trinidad: K. James¹, T. Gunness² (1. bpTT; 2. bp (Non-Author)) Speaker: Tracy Gunness
- Station H...De-risking reservoir compartmentalisation in the Santos
 Basin through holistic fault segmentation analysis: A.
 K. Ribeiro², J. A. Souza¹, D. Hemingway³, V. OConnor³, A.
 L. Rigueti⁴, H. de Vries⁵, A. Malinovsky⁵, L. V. de Andrade
 Souza⁶ (1. Petrobras; 2. Petrobras; 3. Petrotechnical Data
 Systems Ltd; 4. Petrobras; 5. Petrotechnical Data Systems
 B.V.; 6. Universidade Federal Fluminense) Speaker: Leonardo
 de Andrade Souza

TL P2 Analysis using Machine Learning 1

10:20 a.m.-12:00 p.m.

Session Chairs: Obi Egbue and Aiden Shen

Location: Poster Location 6 (in the Exhibit Hall)

- Station E....Innovative Machine Learning with Bayesian Uncertainty
 Quantification for Dynamic Reservoir Property Estimation:
 A Pilot Study on an Offshore Oil Field in Nigeria: C. Li¹, J.
 Chen¹, C. Hagbo¹, M. Amaru¹, Q. Sun², O. Lolomari², E. Ejika²,
 A. Oshinubi², A. Ikeneku² (1. Chevron; 2. Star Deep Water
 Petroleum Limited) Speaker: Chang Li
- Station F....Convolution Neural Networks for Fault Interpretation on
 4D data Atlantis Field: H. Garcia¹, C. Wendland², D. Eddy²,
 K. Wrobel² (1. Geoteric; 2. Woodside Energy) Speaker: Hugo
- Station G ...Cost-effective time-lapse seismic characterization of fracture dynamic changes: H. Hu¹, Y. Zhang², X. Fang³, T. Chen³, Y. Zheng⁴ (1. University of Oklahoma; 2. U.S. Geological Survey; 3. SensorEra Inc; 4. University of Houston) Speaker: Hao Hu
- Station H ... Estimation of carbon dioxide saturation from angle stacks using deep learning: S. Swaminadhan¹, S. Fomel¹, S. Bakhshian² (1. University of Texas at Austin; 2. Rice University) Speaker: Sujith Swaminadhan

BH P2 Advances in Borehole Data Processing and Modeling 1 1:20 p.m.-3:00 p.m.

Session Chairs: Matthew Blyth and Edgar Velez

Location: Poster Location 3 (in the Exhibit Hall)

- Station A ...**Tubing eccentricity evaluation using the third interface echo:** B. Cabella, R. Wang, Y. Ge, F. H. de Araujo, X. Wu (Halliburton) Speaker: Brenno Cabella
- Station B ...Borehole acoustic traveltime tomography with the adjointstate method for near-borehole slowness reconstruction: F. Xia², A. Bolshakov¹, G. Gallardo Giozza², C. Verdin² (1. Chevron; 2. The University of Texas at Austin) Speaker: Feiyue Xia
- Station C ... Acoustic Logging-While-Drilling Isolator Design: A
 Simplified Model: T. Geerits, W. Weinzierl, S. Schimschal, A.
 Swiatek (Baker Hughes) Speaker: Tim Geerits

Station D ...Borehole deep electromagnetic data in the form of apparent conductivity: G. Wang (SLB) Speaker: Gong Li Wang

BM P1 Modeling Fluids Systems

1:20 p.m.-3:00 p.m.

Session Chairs: Lukasz Krawczynski and Jianchang Liu

Location: Poster Location 5 (on the 3rd level)

- Station A ... Evaluating CO₂ Storage Opportunities in Alabama State
 Waters of the Gulf of Mexico: J. Leierzapf, G. Casanova, J.
 W. Koster, M. Meyer (Advanced Resources International)
 Speaker: Jeremy Leierzapf
- Station B ...Geologic basement sweetspots for natural hydrogen and helium in Texas: A spatial analysis: E. Rodriguez Calzado, S. Saleh, E. A. Horne (The University of Texas at Austin) Speaker: Edna Rodriguez Calzado
- Station C ...Impact of lithostratigraphic and depositional model architectures on static and dynamic carbon dioxide resource assessment in the eastern San Joaquin Basin, California: C. Depel¹, V. Smith¹, M. Zulqarnain¹, Z. M. Cotter¹, C. Johnson², R. Ness¹, D. Bryant¹, M. Valluri¹ (1. Advanced Resources International, Inc; 2. University of Utah) Speaker: Charlie Depel

BM P2 Seismic Stratigraphy, CO₂ and Geothermal

1:20 p.m.-3:00 p.m.

Session Chairs: David Tett and Carlos Uroza

Location: Poster Location 6 (on the 3rd level)

- Station A ...Leveraging shelf-to-basin seismic stratigraphy in static
 earth model applications: Pennsylvanian-Permian
 (Wolfcampian and Leonardian) mixed systems of the
 Midland Basin: R. Holman, A. Eljalafi, A. Bonilla-Rodriguez,
 C. Harman (Ovintiv) Speaker: Robert Holman
- Station B ...Evaluating the potential for CO₂ sequestration and low enthalpy geothermal energy in the Midyan Basin, northern Red Sea: J. Zerpa, J. Ye, G. Baby, A. Delaunay, A. Afifi (KAUST) Speaker: Jordania Zerpa

CAEV P1 Porosity and Permeability

1:20 p.m.-3:00 p.m.

Session Chairs: Joseph El-Azzi and Ben Rendall

Location: Poster Location 1 (on the 3rd level)

- Station A ...Permeability variations in simple pore geometries:
 Integrating acoustic velocity, electrical resistivity, and
 digital image analysis: R. Weger, G. Eberli (University of
 Miami) Speaker: Ralf Weger
- Station B ... Characterization of Compartmentalized Shallow Marine
 Carbonates: Pennsylvanian and Early Permian Strata of
 the Denver Embayment, Nebraska and Northeast Colorado:
 B. V. Stroud, B. Price, C. Bowie, J. O'Brien (Devon) Speaker:
 Brittany Stroud
- Station C ...Micro-heterogeneity characterization of Cambrian carbonate reef-shoal reservoirs in the eastern Tarim

 Basin based on computed tomography imaging: Y. Liu¹, X. He¹, B. Yan¹, K. H. Liu² (1. Research Institute of Exploration and Development, PetroChina Daqing Oilfield Co. Ltd.; 2. Missouri University of Science and Technology) Speaker: Yutong Liu

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Station D ... Deciphering reservoir heterogeneity in the Lower
Cretaceous tidal-flat carbonates: Interplay of paleoclimatic
change, depositional and diagenetic processes, and oil
field formation in a giant oil field offshore Abu Dhabi,
U.A.E.: K. Yamamoto¹, H. Montani⁴, J. Alsabeai², S.
Alshamsi², G. Mosekiemang³, H. Takayanagi³, Y. Iryu³
(1. INPEX Corporation; 2. ADNOC Offshore; 3. Tohoku
University; 4. ADNOC Offshore/INPEX Corporation) Speaker:
Hiroki Montani

CAEV P2 Outcrop, Seismic, and Modern Analogues 1

1:20 p.m.-3:00 p.m.

Session Chairs: Abdulah Eljalafi and Ted Playton

Location: Poster Location 2 (on the 3rd level)

- Station A ... The formation of modern marine intertidal stromatolites:
 Insights from the Red Sea: K. Hachmann¹, E. Garuglieri¹,
 Y. Panara¹, R. Marasco¹, D. Daffonchio², V. Vahrenkamp¹ (1.
 KAUST; 2. University of Turin) Speaker: Kai Hachmann
- Station B ... Whitings in the Red Sea: M. Ariza, A. N. Wicaksono, E. Garuglieri, I. Hoteit, V. Vahrenkamp (KAUST) Speaker: Manuel Ariza
- Station C ...Unlocking the Dynamics of Pedogenic Carbonates:

 A Machine Learning Approach: T. A. Legg, C. Hodges
 (University of Oklahoma) Speaker: Tiffany Legg
- Station D ...Depositional architecture and fracture distribution of a megabreccia in a debris-dominated carbonate lower slope: Permian Rader Member, Bell Canyon Formation, Guadalupe Mountains, West Texas: M. Ibagarov¹, A. Slootman¹, Z. Jobe¹, T. Playton², R. A. Williams¹, L. J. Wood¹, P. Plink-Bjorklund¹ (1. Colorado School of Mines; 2. Chevron) Speaker: Marat Ibagarov

CAEV P3 Mixed Carbonate and Siliciclastic Systems

1:20 p.m.-3:00 p.m.

Session Chairs: Buddy Price and Rachel Williams

Location: Poster Location 3 (on the 3rd level)

- Station A ... Emplacement and fill characteristics of carbonate mass failures across time, scale and depositional processes originating from the Central Basin Platform, Midland Basin, West Texas: M. P. Braunscheidel¹, L. J. Wood¹, R. Bianco² (1. Colorado School of Mines; 2. Fasken Oil and Ranch) Speaker: Michael Braunscheidel
- Station B ...Paleoenvironmental interpretations and correlations using core facies and wireline logs from the mixed carbonate-siliciclastic Upper Strawn Group in Stonewall, Haskell, and King Counties, north-central Texas: I. Johnson, P. P. Flaig, B. Dejarnett, K. Hattori (University of Texas at Austin) Speaker: Isabel Johnson
- Station C ...Facies variability in the Middle Member of the Bakken Formation, Williston Basin, North Dakota, USA: Evidence for subtle tectonic controls on deposition: A. Cigri¹, S. Egenhoff¹, J. Sorensen² (1. University of North Dakota; 2. Energy & Environmental Research Center) Speaker: Ali Riza Cigri
- Station D ...Integrated petrographic, structural, and stratigraphic analysis of the Upper Cretaceous Abu Roash D carbonate reservoir, Northern Western Desert, Egypt: A. M. Noureldin¹, I. Khalil¹, G. Saleh², M. Radwan¹ (1. EUG; 2. SLB) Speaker: Ahmed Noureldin

DAS P1 Modeling and Processing

1:20 p.m.-3:00 p.m.

Session Chairs: Vladimir Kazei and Adesh Pandey

Location: Poster Location 7 (on the 3rd level)

- Station A ...Machine learning-based P- and S-wave separation for distributed acoustic sensing (DAS) data: Y. Choi, S. Seol, J. Byun (Hanyang University) Speaker: Yonggyu Choi
- Station B ... Acquisition requirements for inversion for fracture parameters with 3D DAS VSP data: W. Cao, T. Mizuno, M. L. Khaitan (SLB) Speaker: Weiping Cao
- Station C ... A New Workflow for DAS VSP Modeling: C. Wu, B. Harvey,
 I. Lim Chen Ning, T. Nemeth, M. Merino, C. Manuel, P. Costa
 Pisani, D. Sherlock, Y. Luo, H. Ni, K. Nihei, R. Dash, M. Yang,
 Y. Zhang, J. Bergeron, D. Bevc, Y. Tan, J. Nealon (Chevron)
 Speaker: Chunling Wu
- Station D ...Enhancing Seismic Event Detection and DAS Data

 Management Using Autoencoders: A. Tourei, E. Martin

 (Colorado School of Mines) Speaker: Ahmad Tourei

NS P5 General Contributions

1:20 p.m.-3:00 p.m.

Session Chairs: Lee Slater and Cathy Truffert

Location: Poster Location 7 (in the Exhibit Hall)

- Station A ...Integrated ERT and FDEM Approaches for Locating Metallic and Non-Metallic Buried Objects in High-Conductivity Soils: R. Abdelrehim¹, M. Abdrabou¹, M. Everett² (1. Texas A&M University Corpus Christi; 2. Texas A&M University) Speaker: Ramadan Abdelrehim
- Station B ... Use of resistivity measurements in constructing a geotechnical-geophysical model of weathered marble profile at a landslide site in Sa Pa, Vietnam: B. Xuan Hanh², P. H. Giao¹, H. H. Doan³ (1. PetroVietnam University (PVU); 2. Transport Engineering Design Incorporated; 3. Vietnam Petroleum Institute) Speaker: Pham Giao
- Station C ... Using uncrewed aerial vehicles (UAV) to search for unmarked burials in legacy African-American cemeteries in the Houston, Texas area: M. N. Bugti¹, M. Allison², R. Stewart¹, C. Clapsaddle¹ (1. University of Houston; 2. Raptor Aerial Services) Speaker: Muhammad Nawaz Bugti
- Station D ... Air-Ground Coupling from SpaceX Starship Launch
 Signals: J. Villagomez, J. McNease, Z. Zhang, M. Murphy, Y.
 Zheng (University of Houston) Speaker: Johanna Villagomez

SMT P3 Frequency Domain

1:20 p.m.-3:00 p.m.

Session Chairs: Valeriy Brytik and Min Zhou

Location: Poster Location 1 (in the Exhibit Hall)

- Station A ...**Physics-informed neural operator for learning Helmholtz equation in microseismic application:** X. Ma, T. Alkhalifah
 (KAUST) Speaker: Xiao Ma
- Station B ...Accelerating seismic wavefield representation via latent diffusion-initialized physics-informed neural networks: S. Cheng, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Shijun Cheng
- Station C ... Combing Fourier neural operator and Diffusion model for Seismic wave modeling in frequency-domain: X. Meng, J. Geng (Tongji University) Speaker: Xiangqi Meng

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Station D ...Efficient frequency-domain seismic modeling via the rapid expansion method: R. Pestana¹, D. Revelo², L. S. Bitencourt¹, V. Koehne*³ (1. Federal University of Bahia; 2. SENAl-CIMATEC; 3. SENAl CIMATEC HPC Center (Non-Author)) Speaker: Victor Koehne

SMT P4 Seismic Modeling in Different Media

1:20 p.m.-3:00 p.m.

Session Chairs: Kaushik Banerji and Weihong Fei

Location: Poster Location 2 (in the Exhibit Hall)

- Station A ... Orientation-invariant wave equations for elastic media
 with TTI or TORT symmetries: R. Felicio Fuck, L. Casasanta
 (Shearwater Geoservices) Speaker: Rodrigo Felicio Fuck
- Station B ... Viscoacoustic wave propagation in elliptical VTI media:

 Spectral-element simulations with a novel GSLS-type wave
 equation: Y. Chen, D. Lumley, H. Zhu (The University of
 Texas at Dallas) Speaker: Yu Chen
- Station C ... Wave propagation in the thermoelastic medium with variable material properties: Y. Liu¹, L. Fu¹, Z. Wang², W. Hou¹ (1. China University of Petroleum (East China); 2. Harbin Engineering University) Speaker: Yunfei Liu
- Station D ...Leveraging Kolmogorov-Arnold Network Empowered
 Fourier Neural Operator to Solve Eikonal Equation: Y. Cui¹,
 U. Waheed¹, C. Song³, Y. Chen² (1. King Fahd University of
 Petroleum and Minerals; 2. University of Texas at Austin; 3.
 Jilin University) Speaker: Umair Bin Waheed

SP P9 Machine Learning Applications 1

1:20 p.m.-3:00 p.m.

Session Chairs: Shuang Gao and Frederico Xavier De Melo

Location: Poster Location 4 (in the Exhibit Hall)

- Station A ...Synthetic pretraining is not enough: Domain shift
 through normalization: J. Quesada, P. Chowdhury, M.
 Prabhushankar, G. AlRegib (Georgia Institute of Technology)
 Speaker: Jorge Quesada
- Station B ...Intelligent quality control techniques for seismic data processing: L. Liu, P. Sun, Z. Guo, F. Ni, W. Geng, J. Zhang (BGP, CNPC) Speaker: Lei Liu
- Station C ...Concurrent Seismic Inversion and Imaging via Deep
 Learning Integration of Multi-source Data: L. Ma, L. Han, F.
 Zhang (Jilin University) Speaker: Liguo Han
- Station D ...ML-based 3D seismic clustering technology for prospect reserves evaluation: A case study from fields in South Capsian Basin: T. Eliva¹, O. Mammadov³, I. Karimli¹, R. Malikov¹, N. Kuramshina², K. Aliyev² (1. WAVERITY; 2. GL; 3. Baku State University) Speaker: Orkhan Mammadov

SP P10 Machine Learning Technology

1:20 p.m.-3:00 p.m.

Session Chairs: Merzlikin Dmitrii and Yingming Qu

Location: Poster Location 5 (in the Exhibit Hall)

- Station A ...**GAN-Based Seismic Horizon Tracking:** W. Zheng, R. Bell, L. Guasch, C. Cueto, P. Pasalska, Y. Wang (Imperial College London) Speaker: Wenhao Zheng
- Station B ...Optimizing Automatic Interpretation for the Multi Horizon
 Case: R. Dutra, F. Vizeu, J. Zambrini, Y. Weiss, A. Canning
 (Aspentech) Speaker: Yuval Weiss

- Station C ... Multi-instance SAM2 for 3D seismic segmentation: P. Chowdhury, M. Prabhushankar, G. AlRegib (Georgia Institute of Technology) Speaker: Prithwijit Chowdhury
- Station D ...Generative-based Uncertainty Estimation of Fault
 Interpretation Leveraging Multi-Quality Annotations: C.
 Zhou, M. Prabhushankar, G. AlRegib (Georgia Institute of Technology) Speaker: Chen Zhou

STGM P3 Geomechanics 2

1:20 p.m.-3:00 p.m.

Session Chairs: Titus Murray and David Forand

Location: Poster Location 4 (on the 3rd level)

- Station A ...Deriskig well construction using real-time reverse multiwell analysis to enhance updating the drilling window and field-scale geomechanical model: J. P. Castagnoli (SLB) Speaker: Joao Castagnoli
- Station B ...Pore pressure prediction using offshore seismic data:

 A case study in South China sea: W. Pei, L. Han, W. Tan
 (Petroleum Exploration and Production Research Institute,
 Sinopec) Speaker: Weilai Pei
- Station C ...Mechanical stratigraphy, bedding-plane slip, and casing deformation: K. Smart¹, A. Cawood¹, D. A. Ferrill² (1. Southwest Research Institute; 2. Southwest Research Institute) Speaker: Kevin Smart

TL P3 Case Studies 1

1:20 p.m.-3:00 p.m.

Session Chairs: Denis Kiyashchenko and Shauna Oppert

Location: Poster Location 6 (in the Exhibit Hall)

- Station A ...Active seismic monitoring of CO₂ injected into a shallow fault: K. Tertyshnikov¹, R. Pevzner¹, O. Collet¹, P. Shashkin¹, N. Beloborodov¹, M. Vorobev¹, A. Almukhametova¹, R. Isaenkov¹, B. Gurevich¹, S. Glubokovskikh² (1. Curtin University; 2. LBNL (Non-Author)) Speaker: Stanislav Glubokovskikh
- Station B ...Denoise 4D fast-track image using a Conditional GAN:

 Brazilian Pre-salt Example: J. A. Collazos¹, K. d. Rincon¹, E.
 Fagua Duarte¹, J. M. Araujo¹, D. Kiyashchenko³, J. L. Lopez²
 (1. UFRN; 2. Shell Brasil Petroleo Ltda; 3. Shell International Exploration and Production Inc.) Speaker: Jaime Collazos
- Station C ...Broadband seismic data with frequencies from zero to

 Nyquist for building interval velocities: J. C. Bancroft (JB

 Consulting) Speaker: John Bancroft
- Station D ...Leveraging Relative Geological Time Models to Enhance
 4D Seismic Monitoring: Optimizing Reservoir Saturation
 Analysis through Delta Time Changes: A. Fernandez¹, Q.
 Corlay², H. Abdallah² (1. Eliis Inc.; 2. Eliis SAS) Speaker:
 Alfredo Fernandez

BH P3 Advances in Borehole Data Processing and Modeling 2 3:40 p.m.-5:20 p.m.

Session Chairs: Alexei Bolshakov and Nadia Mouedden

Location: Poster Location 2 (in the Exhibit Hall)

Station E.... Evaluation of mechanical parameters of complex lithology rocks based on drill cuttings: L. Chang, H. Wang, L. Zhuo, G. Ji (CNPC Engineering Technology R&D Company Limited) Speaker: Long Chang

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- Station F....Geometrical Optimization of an Acoustic Logging-While-Drilling Isolator: W. Weinzierl, S. Schimschal, A. Swiatek, T. Geerits (Baker Hughes) Speaker: Stefan Schimschal
- Station G ... Cement evaluation through dual-string pipes using acoustic resonance method: Y. Ge, R. Wang, F. H. de Araujo, B. Cabella, X. Wu (Halliburton) Speaker: Yao Ge
- Station H...High-precision intelligent seismic geosteering technology for tight oil horizontal wells in Junggar Basin: Y. Yao, J. Cui, Z. Teng, X. Li, T. Xu, Q. Nie (BGP, CNPC) Speaker: Yanfei Yao

BH P4 Machine Learning Applied to Borehole Data 2

3:40 p.m.-5:20 p.m.

Session Chairs: Shuvajit Bhattacharya and Vanessa Simoes

Location: Poster Location 3 (in the Exhibit Hall)

- Station E....Al-driven real time prediction of gamma ray ahead of the drill bit: I. Karimli, R. Malikov, O. Mammadov, I. Shahsenov (WAVERITY) Speaker: Ilkin Karimli
- Station F....BiLSTM-Kolmogorov-Arnold Network Integration for Robust Reconstruction of Missing Acoustic Logs in Thin-Interbedded Formations: X. Lu, D. Zhang, X. Wang, N. Guo (CNOOC China Limited Tianjin) Speaker: Xinrui Lu
- Station G ... Al-powered dip picking tool for borehole image logs: N. You¹, T. Lin¹, W. Li¹, X. He², H. Kwak² (1. Aramco Americas; 2. Aramco) Speaker: Nan You
- Station H...A VSP Wavefield Separation Method Combining Curvelet Transform and Deep Learning: Y. He (University of Electronic Science and Technology of China) Speaker: Yuhang He

CAEV P4 Carbonate Diagenesis

3:40 p.m.-5:20 p.m.

Session Chairs: Buddy Price and Ben Rendall

Location: Poster Location 1 (on the 3rd level)

- Station E.... Hydrothermal Events in Carbonates from South Atlantic Pre-Salt: Age and Associated Diagenesis in Distal Area of the Campos Basin, Southeastern Brazil: M. F. Santos³, D. S. Dubois¹, R. V. Santos², G. d. Gonçalves², I. d. Carmo³, A. N. de Araujo⁴, F. d. Costa⁴, G. C. Costa², R. P. Brandão⁴. L. C. Falcão³, Y. Silva³ (1. Petroleo Brasileiro SA; 2. UnB - Universidade de Brasília; 3. Petróleo Brasileiro S.A.; 4. Petrobras S.A.) Speaker: Maria Rosilene Santos
- Station F....Deciphering depositional and diagenetic signatures in Upper Cretaceous deep-marine carbonates, southeast Gulf of Mexico: Insights from cluster analysis: J. M. León (IMP) Speaker: Juan León
- Station G ... Diagenetic Feature and Paleoenvironmental Implications of Eocene Jatta Gypsum in the Kohat Basin, Pakistan: H. Ullah (China University of Petroleum (East China)) Speaker: Hassanat Ullah
- Station H... Strike-slip fault-controlled fracture-cavity reservoir characterization in ultra-deep carbonates: A case study from the Tarim Basin: F. Yang¹, X. Yin², B. Liu¹ (1. China University of Petroleum (East China); SINOPEC Geophysical Research Institute Co., Ltd.; 2. China University of Petroleum (East China)) Speaker: Fengying Yang

CAEV P5 Outcrop, Seismic, and Modern Analogues 2

3:40 p.m.-5:20 p.m.

Session Chairs: Abdulah Eljalafi and Ted Playton

Location: Poster Location 2 (on the 3rd level)

- Station E....Facies architecture and mechanical stratigraphy of Mississippian grainy and muddy carbonate sediment gravity-flow deposits: Rancheria Formation, Sacramento Mountains, New Mexico: S. Begimbetov¹, Z. Jobe¹, A. Slootman¹, J. Bishop², P. Plink-Bjorklund¹, L. J. Wood¹ (1. Colorado School of Mines; 2. Chevron) Speaker: Sanzhar Begimbetov
- Station F.... Depositional architecture of a prograding microbial-reefrimmed carbonate slope, Lower Carboniferous, Bolshoi Karatau Mountains, Kazakhstan: A. Slootman¹, M. Ibagarov¹, Z. Jobe¹, G. Alimzhanova¹, S. Begimbetov¹, M. Miguez¹, R. A. Williams¹, J. Bishop², A. Umralin³, B. den Brok³, M. Fustic³, D. Bekeshov³, A. Igizgali³, M. Issatay³, T. Mynbayeva³, D. Nadirkhanova³, A. Zhengis³ (1. Colorado School of Mines; 2. Chevron; 3. Nazarbayev University) Speaker: Arnoud Slootman
- Station G ... Strike-variability of a submarine fan on a Mississippian carbonate ramp, Doña Ana Member, Lake Valley Formation, Sacramento Mountains, New Mexico: Z. N. Nadhim¹, A. Slootman¹, L. J. Wood¹, J. Bishop², Z. Jobe¹, P. Plink-Bjorklund¹ (1. Colorado School of Mines; 2. Chevron) Speaker: Zaid Nadhim
- Station H...Identification and geological significance of clustered bioherms and shoals in the Permian Changxing Formation, central Sichuan Basin: Y. Deng, R. Yang, X. Feng, Y. Zhu, h. liang, Z. Zhu, B. Li (BGP, CNPC) Speaker: Yuling Deng

DAS P2 Near Surface and Engineering

3:40 p.m.-5:20 p.m.

Session Chairs: Andres Chavarria and Jihyun Yang

Location: Poster Location 7 (on the 3rd level)

- Station E.... Numerical Simulation of Vehicle-Induced DAS Signals through Simulation and Field Data: S. Choi², B. Yoon¹, Y. Cho² (1. Korea Institute of Geoscience and Mineral Resources; 2. Seoul National University) Speaker: Seunghun
- Station F....Coherence Analysis for DAS data processing: A. S. Issah (Colorado School of Mines) Speaker: Abdul Hafiz Issah
- Station G ... DAS monitoring by using dark fiber on the campus of **UL Lafayette:** R. Zhang¹, Y. Soni², J. Pulliam², G. Morra¹, S. Hogue¹, P. Owusu¹, M. Boroumand¹ (1. University of Louisiana at Lafayette; 2. Baylor University) Speaker: Rui

IPS P1 New Energies and Hydraulic Fracture Monitoring

3:40 p.m.-5:20 p.m.

Session Chairs: Weiping Cao and Ting Chen

Location: Poster Location 3 (on the 3rd level)

- Station E.... Seismicity-constrained optimization of produced water injection: V. Meenakshisundaram¹, W. Curry¹, S. Hussenoeder² (1. ExxonMobil; 2. ExxonMobil Upstream Company) Speaker: Venkatesh Meenakshisundaram
- Station F....Real-time microseismic event location using a latent diffusion model: Y. Yang, O. M. Saad, T. Alkhalifah (King



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Abdullah University of Science and Technology) Speaker: Yuanvuan Yang

Station G ... Fundamental study on seismic reflection characteristics of fluid-filled fracture with fluid flow: S. Katoh, J. Takekawa (Kyoto University) Speaker: Shun Katoh

IPS P2 Ambient Field Methods

3:40 p.m.-5:20 p.m.

Session Chairs: Shujaat Ali and Wanying Wang Location: Poster Location 4 (on the 3rd level)

Station E....Seismic Microzonation Analysis Using the HVSR Method for Landslide Investigation in Banggai Regency, Central Sulawesi Province: N. S. Salsabila (Geophysics) Speaker: Nazwa Salsabila

Station F.... Ambient seismic frequency-domain gradiometry: D. Davis¹, J. C. Shragge¹, A. Girard¹, S. de Ridder² (1. Colorado School of Mines; 2. University of Leeds) Speaker: Daniel Davis

Station G ... First-order Control Factors for Ocean-bottom Ambient Seismology Interferometric Observations: A. Pandey, J. C. Shragge, A. J. Girard (Colorado School of Mines) Speaker: Adesh Pandey

IPS P3 Induced Seismicity and Fault Monitoring

3:40 p.m.-5:20 p.m.

Session Chairs: Adam Baig and Daniel Hollis Location: Poster Location 5 (on the 3rd level)

Station E....Shear-source parameter inversion of hydraulic fracturingacoustic emission based on intelligent optimization algorithms: B. Liang, L. Fu, T. Müller, W. Deng, T. Han (China University of Petroleum (East)) Speaker: Bofeng Liang

Station F.... A Data-Driven approach to Mitigate Seismicity Risk in Subsurface Operations: A. Shamsa, M. Paydayesh, M. Perezhogina (SLB) Speaker: Maria Perezhogina

Station G ... Sensitivity analysis of earthquake depths in the Western **Delaware Basin:** E. Castillo¹, N. Igonin¹, A. Savvaidis² (1. University of Texas at Dallas; 2. Lead Seismologist and Manager of the Texas Seismological Network (TexNet)) Speaker: Emmanuel Castillo

NS P6 Seismic Velocity Modeling

3:40 p.m.-5:20 p.m.

Session Chairs: Shawn Clark and Kennedy Doro **Location: Poster Location 7 (in the Exhibit Hall)**

Station E....WITHDRAWN

Station F....Near surface model building by first break tomography for ultra-thick low velocity layer: W. Wei (BGP) Speaker: Wu

Station G ... High-resolution velocity model building: Enhancing near surface imaging for seismic exploration: N. S. Alnaser, E. Sandoval Curiel, D. Colombo (Aramco) Speaker: Naser Alnaser

Station H...High-resolution depth velocity modeling for offshore wind farm site characterization: L. Limonta¹, B. Caselitz¹, M. Lange¹, J. Oukili¹, R. Ruiz¹, J. Brittan² (1. TGS; 2. TGS (Non-Author)) Speaker: John Brittan

SMT P5 Miscellaneous Topics in Seismic Exploration

3:40 p.m.-5:20 p.m.

Session Chairs: Shuhua Hu and Anurag Pandey

Location: Poster Location 1 (in the Exhibit Hall)

Station E....Kinematically equivalent Born model compression: G. Flagg, C. Lapilli (SLB) Speaker: Garret Flagg

Station F....From Mineralogy to Mechanical Properties: Integrating core data and rock physics simulations for stiffness tensor estimation in Vaca Muerta organic-rich mudrock: J. E. Santos², A. S. Camus³, G. B. Savioli², P. M. Gauzellino³, J. Ba1 (1. Hohai University; 2. Universidad de Buenos Aires; 3. Universidad Nacional de La Plata) Speaker: Juan Santos

Station G ... Application of Multi-Scale Well-Seismic Time-Frequency Matching Methods in Sequence Stratigraphic Interpretation: Y. Lin, D. Yong, I. Wang, Z. Feng, L. Xiaohu, X. Yin, S. Zhang (BGP, CNPC) Speaker: Yu Lin

Station H...Further discussion on full wavefield seismic exploration: D. Li, W. Fan, F. Yan (Beijing Century Kingdo Petro-Tech Co. Ltd.) Speaker: Dongan Li

SP P11 Case Studies 1

3:40 p.m.-5:20 p.m.

Session Chairs: Darrell Armentrout and Mina Matta

Location: Poster Location 4 (in the Exhibit Hall)

Station E....Converted wave imaging of a giant field offshore Abu Dhabi: G. Cambois, S. A. Al Mesaabi, M. Mahgoub, T. M. Alkatheeri, O. H. Kirstetter, Y. Hong, A. Al Neyadi (ADNOC) Speaker: Saif Al Mesaabi

Station F....Improving OBN Seismic Data Processing Using 3D Directional Designature Techniques in Deep Water Areas: R. Zhang (BGP, CNPC) Speaker: Ran Zhang

Station G ... Advanced processing of a novel acquisition from offshore Cyprus: M. F. Hartmann¹, C. Asher¹, S. Braquet¹, J. Caskey¹, N. Samai¹, A. Ouzounis² (1. DUG Technology; 2. ExxonMobil Technology and Engineering Company) Speaker: Monica

Station H...High precision imaging for complex volcanic reservoir in Sichuan Basin, China: Y. Xiong (Sinopec Geophysical Research Institute) Speaker: Yanmei Xiong

SP P12 Case Studies 2

3:40 p.m.-5:20 p.m.

Session Chairs: Xie Yi and Junru Jiao

Location: Poster Location 5 (in the Exhibit Hall)

Station E.... Development and Application of "All-Time, Full-Space" Processing Technology for all-with-node Seismic Data: Y. Wang, Y. Rui, X. Tang, H. Liang, N. Qin (Sinopec Shengli Oilfield Geophysical Research Institute) Speaker: Ning Qin

Station F.... Analysis of seismic gas-obscured zones: Offshore and onshore case studies from China: Z. Zou¹, P. Sava², P. Sun¹, Z. Qian¹, W. Zhang¹, Z. Ding¹ (1. BGP, CNPC; 2. Colorado School of Mines) Speaker: Zhen Zou

Station G ... Seismic phase spectral analysis: Field-data insights from circular statistics: A. Rohatgi, A. Bakulin, S. Fomel (University of Texas at Austin) Speaker: Akshika Rohatgi

Station H...Study and application of key seismic data processing technologies for Buried Hill in the Pearl River Mouth Basin: T. Lu¹, M. Li¹, W. Liu¹, F. Zhou¹, W. Guo¹, G. Tan¹, R. Li² (1.

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CNOOC China Limited, Zhanjiang Branch; 2. SLB) Speaker: Tongxiang Lu

STUD P4 Outcrop-Based Study

3:40 p.m.-5:20 p.m.

Session Chairs: Howard Harper and Ahmed Radwan

Location: Poster Location 6 (on the 3rd level)

Station E....Outcrop and petrographic analysis of the Permian Lyons
Sandstone, Morrison, Colorado: Understanding diagenesis
and oxygen Isotope variation for reservoir characterization:
I. L. Hopkins (Colorado School of Mines) Speaker: Isabel
Hopkins

Station F....High-Resolution Outcrop Modeling for Fluvial Reservoir
Characterization: Using the Castlegate Sandstone as an
Analog for Subsurface Exploration: O. Tatum, S. M. Hudson,
B. Bickmore, J. A. Robinson, A. Toner (Brigham Young
University) Speaker: Olivia Tatum

Station G ...Connectivity in fractured reservoirs: Outcrop analogs and seismic data: R. Biswas, B. Sahoo, A. Roy, S. Tripathy (Indian Institute of Technology Kharagpur) Speaker: Rayaan Biswas

Station H...Geochemical Signatures of the Mowry Shale: Insights into Its Unconventional Reservoir Potential: B. Taylor¹, S. M. Hudson¹, B. Greenhalgh², A. Toner¹, M. Kartchner¹ (1. Brigham Young University; 2. Enbridge Gas) Speaker: Brad Taylor

TL P4 4D Seismic Inversion and Quantitative Interpretation

3:40 p.m.-5:20 p.m.

Session Chairs: Chen Bao and Mert Kiraz

Location: Poster Location 6 (in the Exhibit Hall)

Station E....Detection of a new CO₂ plume in time-lapse seismic data (2010) of Sleipner field, North Sea, Norway using spectral attributes: M. Vijayaraj, P. Kumar, N. Vedanti (CSIR-National Geophysical Research Institute) Speaker: Muthulakshmi Vijayaraj

Station F....Integrated reservoir model optimization using seismic data and production decline curves: J. Yang (Southwest Petroleum University) Speaker: Jian Yang

Station G ...Time-Lapse Seismic signatures of Carbon Dioxide
Sequestration and Hydrogen Storage: Mavko-Jizba Model
verification of seismic velocity, time, and attenuation: M. O.
Falowo, A. Raef (Kansas State University) Speaker: Moses
Falowo

Station H ... Statistical Analysis of AVA/Rock Physics Attributes as
Features for CO₂ Saturation Estimation from 4D Prestack Seismic Dataset: P. Owusu, R. Zhang (University of
Louisiana at Lafayette) Speaker: Papa Owusu

Thursday, 28 August

CO, P1 Reservoir Characterization

8:00 a.m.-9:40 a.m.

Session Chairs: Maria Madariaga and Andrey Shabelansky

Location: Poster Location 2 (on the 3rd level)

Station A ...Permeability prediction of carbonate-rich sandstones using X-ray micro-CT images: T. A. Chukwuma¹, Z. Shi², L. E. Beckingham², C. Garing¹ (1. University of Georgia; 2. Auburn University) Speaker: Tracy Chukwuma

Station B ... The value of core data integration in the assessment of CO₂ storage capacity and injectivity: A case of study from the Paleocene Lower Wilcox, onshore Texas, USA: C. A. Uroza, W. A. Ambrose, I. Olariu, S. Bhattacharya, S. Hovorka (University of Texas at Austin) Speaker: Carlos Uroza

Station C ...CO₂ sequestration sequential prospect development, a case study from the Middle East: M. Valderrama, A. Ghamdi (Aramco) Speaker: Mario Valderrama

Station D ...Characterizing and modeling of reservoir quality for geologic storage of CO₂: A case study from Offshore Matagorda Island, South Texas: H. Ebaid¹, Y. O. Azeez², M. Abdrabou², H. Elattar³, R. Abdelrehim², M. Elshalkany², A. Omar², I. Pecher², P. Mullen², R. Diby¹ (1. Texas A&M University, College Station; 2. Texas A&M University, Corpus Christi; 3. University of Leeds) Speaker: Hossam Ebaid

DAS P3 Low Carbon Solutions

8:00 a.m.-9:40 a.m.

Session Chairs: Pengchao He and Ge Jin

Location: Poster Location 7 (on the 3rd level)

Station A ...CO₂ plume detection via refraction tomography of sparse S-DAS seismic data: Synthetic North Sea scenarios **evaluation:** S. Re, R. Bachrach, M. Chapelle, S. Harrington, J. Butt, M. Branston (SLB) Speaker: Simone Re

Station B ...Monitor Potential Fracture Growth in Carbon Sequestration
Reservoirs using Distributed Strain Sensing: Y. Ning¹, G.
Jin¹, R. W. Hammack², E. Zorn² (1. Colorado School of Mines;
2. National Energy Technology Laboratory) Speaker: Yanrui

Station C ... Validating the presence of Stimulated Reservoir Volume around individual hydraulic fractures in Enhanced Geothermal Systems using Distributed Strain Sensing and coupled Thermo-Hydro-Mechanical modeling: V. Fakeye (Colorado School of Mines) Speaker: Victor Fakeye

MME P1 Advanced Modeling for Exploration

8:00 a.m.-9:40 a.m.

Session Chairs: Daniel Hollis and Peng Li

Location: Poster Location 1 (on the 3rd level)

Station A ... A Holistic Approach for High-Resolution Mineral
Prospectivity Mapping with Deep Convolutional Neural
Networks: K. Gomez, A. I. Koeshidayatullah (College
of Petroleum Engineering and Geosciences) Speaker:
Ardiansyah Koeshidayatullah

Station B ...Revisiting Radiometric Ratios: Isometric Log Ratio
Transforms to Balance Potassium, Thorium, and Uranium
Ratios in Regional-Scale Mineral Exploration: R. N.
Crummett, M. Zhang, Y. Li (Colorado School of Mines)
Speaker: Robert Crummett

Station C ...Knowledge-Centered Geomodelling for Minerals Based on GenAl: What Can We Learn from Reservoir Prediction?: S. Song (Stanford University) Speaker: Suihong Song

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Station D ...Lp-norm inversion constrained by geological information using neural network and full-tensor gravity gradiometry data: B. Zhang¹, Z. Guo¹, F. Xiong², B. Chen¹, B. Wang¹, Y. Wang¹, X. Wei³ (1. Central South University; 2. Beijing Institute of Mathematical Sciences and Applications; 3. University of British Columbia) Speaker: Boyao Zhang

NEF P1 Geothermal Energy

8:00 a.m.-9:40 a.m.

Session Chairs: Xiaolong Wei and Xuqing Wu Location: Poster Location 3 (on the 3rd level)

- Station A ... Next-generation Geothermal Resource Assessment of the Rio Grande Rift Zone, SW Texas: Techno-economic Implications for Power Generation and Direct Use: S.

 Bhattacharya, R. Arasada, S. Liu, B. Young, P. Eichhubl, D. Chapman, K. Wisian (The University of Texas at Austin) Speaker: Shuvajit Bhattacharya
- Station B ...Correlation of Peculiar Characteristics of Southwestern
 Nigeria's Physical Features for Geothermal Energy
 Generation: A Case Study of Ikogosi-Ado Ekiti and IjebuIfe: M. O. Ekechikwe (FUPRE) Speaker: Maureen Ekechikwe
- Station C ... A Synergistic Application of Supercritical CO₂ in

 Geothermal Energy and Heavy Oil Recovery: G.

 Abdelemeseih², V. Atashbari¹, A. Guirgis³ (1. Southern
 University; 2. ENI; 3. 3. PMG Petro Management Group Ltd.)

 Speaker: Vahid Atashbari
- Station D ...Convolutional Neural Networks to Predict Hidden
 Hydrothermal Resources in the Rio Grande Rift Zone,
 Southwestern United States using Publicly Available Data:
 R. Arasada, S. Bhattacharya (Bureau of Economic Geology,
 The University of Texas at Austin, United States) Speaker:
 Rama Chandrudu Arasada

NEF P2 Energy Transition

8:00 a.m.-9:40 a.m.

Session Chairs: Shubin Zeng and Ziang Zhang

Location: Poster Location 4 (on the 3rd level)

- Station A ...Modeling Natural Hydrogen Flow from Serpentinized
 Reservoirs for Sustainable Energy: P. Panja, R. Sorkhabi, M.
 Deo (University of Utah) Speaker: Palash Panja
- Station B ...Prospect assessment workflows for the energy transition:
 Natural hydrogen, carbon storage, geothermal and lithium
 resources: M. Neumaier, B. Kurtenbach, I. Bryant (Ariane
 Logix) Speaker: Martin Neumaier
- Station C ... Assessment of Lithium potential in Kuwait: Geological and Geochemical insight: H. Akbar, S. Behbehani (KOC) Speaker: Hussain Akbar
- Station D ... Analytical vs. Numerical Modeling of Long-Term Thermal Performance in the Utah FORGE EGS Reservoir: P. K. Kumawat, P. Panja, M. Deo (University of Utah) Speaker: Palash Panja

STUD P5 Seismic Monitoring for CO, Storage

8:00 a.m.-9:40 a.m.

Session Chairs: Ting Gong and Maggie Jiao Location: Poster Location 6 (on the 3rd level)

Station A ... CO₂ saturation prediction in storage monitoring using seismic velocity and attenuation: X. Wu, Y. Shen (China University of petroleum (East China)) Speaker: Xiaoqin Wu

- Station B ...Evaluation of time-lapse full waveform inversion methods in CO₂ monitoring: S. Luan¹, Y. Shen¹, Y. Cho² (1. China University of Petroleum (East China); 2. Seoul National University) Speaker: Shu Luan
- Station C ...Imaging-domain wave equation Q tomography for CO₂
 monitoring: T. Jia, Y. Shen (China University of Petroleum
 (East China)) Speaker: Tianyu Jia
- Station D ... Efficient compensation for CO₂-induced seismic attenuation using wavenumber-domain spectral ratio: C. Xu, Y. Shen (China University of Petroleum (East China)) Speaker: Changsheng Xu

SUS P1 Advances in Sustainable Geo-energy Development

8:00 a.m.-9:40 a.m.

Session Chairs: Uzonna Anyiam and Roberto Wagner

Location: Poster Location 5 (on the 3rd level)

- Station A ...Biogeochemical impact of hydrogen leakage on groundwater quality in clay-rich aquifers: A. Clark, A. Pathak, S. Sharma (West Virginia University) Speaker: Allison Clark
- Station B ...Reactive transport simulation of H2 diffusive leakage through clay rich cap rocks with CO₂ as a cushion gas:

 A. Pathak, S. Sharma (West Virginia University) Speaker:

 Arkajyoti Pathak
- Station C ...Reliable methodology to quantify H2 concentrations using a high resolution gas chromatography: E. M. Endara Arguello¹, W. Yan², P. Srinivasan¹ (1. Aramco Americas; 2. Houston Research Center-Aramco Americas) Speaker: Estefania Endara Arguello
- Station D ...Integrating Transient Electromagnetics and Satellite-Based Remote Sensing for Enhanced Geothermal Exploration: S. Al Nasser, N. S. Alnaser, m. Modrra (Saudi Aramco) Speaker: Saleh Al Nasser

AAS P1 Case Study

10:20 a.m.-12:00 p.m.

Session Chairs: Jake Lee and Daniel Locci-Lopez

Location: Poster Location 5 (in the Exhibit Hall)

- Station A ...Application of PP-PS joint prestack inversion for tight sandstone reservoir characterization: H. Wang¹, L. Zhou², L. Zhao³, J. Wang³, Q. Chen⁴, X. Guo⁴ (1. Southwest Petroleum University and RIPED; 2. Southwest Petroleum University; 3. RIPED, CNPC; 4. NWGI, RIPED) Speaker: Hongqiu Wang
- Station B ... A pre-stack joint inversion method of reservoir lithofacies and elastic parameters: H. Luo (Exploration and Development Research Institute of Shengli Oilfield) Speaker: Hongmei Luo
- Station C ...Identification method for thin-bed sand bodies: Based on an integrated seismic attribute-driven study: C. Bai, Y. Xu, X. Huang (Southwest Petroleum University-School of Geoscience and Technology) Speaker: Chunyuan Bai
- Station D ...Prospect Assessment for Stacked Oil Sands in the
 Cretaceous Shu-1 Member, RP Area, Tarim Basin: C. Zhang
 (Yangtze University) Speaker: Chengcheng Zhang

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AAS P2 Anisotropy

10:20 a.m.-12:00 p.m.

Session Chairs: Amit Padhi and Oyedoyin Pelemo-Daniels

Location: Poster Location 6 (in the Exhibit Hall)

Station A ...Radiation Pattern Analysis for Elastic Tilted Transversely Isotropic (TTI) Media: F. T. Costa, A. A. Karsou, P. H. Alves, F. V. Capuzzo, M. Cetale (UFF) Speaker: Felipe Costa

Station B ...Identification Technology and Application of Fracture-Cave Reservoirs: A Case Study of Area A in the Karakum Basin:

Z. Wang¹, J. Dong¹, P. Zhang², M. Luo², W. Wang¹, Q. Gong¹,
W. Liu¹, W. Sun¹ (1. BGP, CNPC; 2. CNODC, CNPC) Speaker:
Zhongfan Wang

Station C ... Effect of surface roughness and curvature on ultrasonic acoustic reflection coefficients: Laboratory measurements on synthetic isotropic and anisotropic samples: D. Crisafulli, G. Gallardo Giozza, D. Olszowska, C. Torres-Verdin (The University of Texas at Austin) Speaker: Domenico Maria Crisafulli

Station D ...Application of mountain wide-azimuth 3D3C technology in identifying heterogeneous sandstones: A case study of the Jurassic Shaximiao Formation in Northern Sichuan Basin, China: Y. Yan (Exploration and Development Research Institute, PetroChina Southwest Oil & Gasfield Company) Speaker: Yuanyuan Yan

AAS P3 AVO Inversion 2

10:20 a.m.-12:00 p.m.

Session Chairs: Hemali Patel and Nimisha Vedanti

Location: Poster Location 5 (in the Exhibit Hall)

Station E....Analysis of applicable conditions for AVO inversion based on composite matrix reflectivity method: X. Zhu, Z. Zong, F. Zhang (China University of Petroleum (East China)) Speaker: Xiaojian Zhu

Station F....Structure-guided AVO inversion with L1-2 regularization by implicit operator in shallow formation: Q. wu¹, G. Liu¹, X. He², Z. Wang¹ (1. China University of Petroleum (Beijing); 2. CNOOC China Limited, Hainan Branch) Speaker: Qibin wu

Station G ... A physics-based diffusion-evolution model for seismic inversion: S. Hu, M. Sen (University of Texas at Austin)
Speaker: Shuhua Hu

Station H...**5D Seismic AVA inversion application in carbonate**reservoir connectivity evaluation: R. Zhang, Z. Sun, d. Wang
(Sinopec Geophysical Research Institute) Speaker: Ruyi
Zhang

AAS P4 Machine Learning 3

10:20 a.m.-12:00 p.m.

Session Chairs: Fan Jiang and Dhananjay Kumar

Location: Poster Location 6 (in the Exhibit Hall)

Station E....Semi-supervised multi-task learning for impedance and Q inversion of nonstationary data: Z. Jiang, B. Wang, R. Luo (Tongji University) Speaker: Zheng Jiang

Station F....Conditional Variational Auto-encoder for Seismic Inversion with Multi-Head Attention: F. Jiang, K. Osypov, M. Gomes, S. Singh, M. Belonosov (Halliburton) Speaker: Fan Jiang

Station G ...Multichannel blind deconvolution assisted by deep learning: A. V. Landeta Bejarano¹, M. D. Sacchi², A. Novais¹,

J. Schleicher¹ (1. University of Campinas; 2. University of Alberta) Speaker: Andres Landeta Bejarano

Station H...**Improving seismic inversions with PDF Transforms:** J. Pendrel (GeoSoftware) Speaker: John Pendrel

AAS P5 Machine Learning 4

10:20 a.m.-12:00 p.m.

Session Chairs: Abhinay Prakash Gahlot and William Hernandez

Location: Poster Location 7 (in the Exhibit Hall)

Station E.... Distributary channel tight sandstone reservoir characterization based on attention mechanisms: H. Lv, L. Yang, L. Yin (Sinopec Geophysical Research Institute Co., Ltd) Speaker: Hui Lv

Station F....Application of Quantum Neural Networks and Variational
Quantum Regression in Seismic Inversion: Z. Liu, J. Zhang
(China University of Petroleum(East China)) Speaker: Zhen
Liu

Station G ...The estimation of the interval velocity model from Dix velocities using a neural network parameterization: J. Khayrullaev, E. Iversen, M. Jakobsen, I. Berre (University of Bergen) Speaker: Jokhongir Khayrullaev

Station H...Multi-head attention spatial-temporal sequence inversion model based on variational mode decomposition: G. Li, Z. Zong, L. Song, F. Chen, Q. Meng, Y. Shen, J. Yang (China University of Petroleum (East China)) Speaker: Gen Li

CO₂ P2 Modeling, Monitoring, and Screening

10:20 a.m.-12:00 p.m.

Session Chairs: Erkan Ay and Francesca Fazzari

Location: Poster Location 2 (on the 3rd level)

Station E....Integrated study for Geologic Carbon Storage in the coastal areas of the Gulf of Mexico: R. Sabbagh, A. Tura (Colorado School of Mines) Speaker: Reinaldo Sabbagh

Station F....SEAM Numerical Modeling of CO₂ Sequestration: Providing

Data to Evaluate Geophysical Monitoring Methods: M.

Fehler (Fehler Consultancy LLC) Speaker: Michael Fehler

Station G ...Large-scale carbon storage effects on up-dip freshwater:
Simulating plume, pressure and salinity changes in the
Wilcox Aquifer, DeWitt County, Texas, USA: S. Avitt, C.
Uroza, T. Meckel (University of Texas at Austin) Speaker:
Sean Avitt

Station H...Ai-accelerated basin-scale carbon sequestration screening in the Gulf of Mexico: M. Christie, V. Rabinovich, M. F. Etayo-Cadavid (S&P Global) Speaker: Miquel Etayo-Cadavid

DAS P4 Long-Term Monitoring

10:20 a.m.-12:00 p.m.

Session Chairs: Milad Bader and Xiaoyu Zhu

Location: Poster Location 7 (on the 3rd level)

Station E....Focal mechanism estimation of microseismic events using DAS at the Utah FORGE EGS site: J. Kim¹, J. Ajo-Franklin¹, S. Han² (1. Rice University; 2. Seoul National University) Speaker: Jaewoo Kim

Station F....Falling Rocks Localization and Early Warning Based on
Distributed Acoustic Sensing: P. Wu, C. Gu, Y. Zhong, Z.
Yuan, J. He, Z. Chen (Tsinghua University) Speaker: Peng Wu

Station G ...Time-lapse full-waveform inversion of distributed acoustic sensing data: H. Liu¹, X. Fu², X. Cai¹, D. Trad¹, K. Innanen¹ (1.



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- University of Calgary; 2. China University of Petroleum (East China)) Speaker: He Liu
- Station H...Magnitude estimation of low-yield mining blasts using distributed acoustic sensing (DAS): J. J. Miller (Penn State University) Speaker: Joseph Miller

FWI P8 VSP, Multiphysics, and Reservoir Characterization 10:20 a.m.-12:00 p.m.

Session Chairs: Gaurav Dutta and Guangchi Xing

Location: Poster Location 4 (in the Exhibit Hall)

- Station A ... Formulation and feasibility analysis of an approximate 3D FWI of multi-azimuth VSP data through cooperative **2D single-azimuth inversions:** A. Ziegon, J. Li, K. Innanen (University of Calgary) Speaker: Anton Ziegon
- Station B ... Full waveform velocity and impedance inversion using joint OBN and DAS-VSP data: Y. Yang, F. Chen, Y. Zhang (BGP) Speaker: Yang Yang
- Station C ... Structural FWI jointly inverted with gravity and electromagnetics: V. Becker², G. L. Klein¹, C. Mueller², E. Schuenemann³, P. L. Smilde², M. H. Krieger² (1. TEECsolutions; 2. TERRASYS Geophysics; 3. TEECware GmbH) Speaker: Markus Krieger
- Station D ... Viscoacoustic full-waveform inversion of seismic refraction data for building P-wave velocity and attenuation models for constraining fracture networks in a sandstone catchment: D. Kim, T. Zhu (Penn State University) Speaker: Donggeon Kim

FWI P9 Cycle-Skipping

10:20 a.m.-12:00 p.m.

Session Chairs: Valeriy Brytik and Nelly Omoruyi **Location: Poster Location 4 (in the Exhibit Hall)**

- Station E....From dynamic time warping to receiver extension: 3D time-domain FWI application: M. Benziane¹, R. Brossier¹, L. Métivier² (1. Univ. Grenoble Alpes, ISTerre; 2. Univ. Grenoble Alpes, CNRS) Speaker: Ludovic Métivier
- Station F....Deep learning framework for mitigating cycle skipping in full waveform inversion: M. Khatami, O. M. Saad, T. Alkhalifah (King Abdullah University of Science and Technology (KAUST)) Speaker: Muhammad Igbal Khatami
- Station G ... Extended full-waveform inversion using subsurfaceoffsets: R. Akhmadiev¹, J. Washbourne², T. Nemeth², Y. Wang², S. Kaplan² (1. Stanford University; 2. Chevron) Speaker: Rustam Akhmadiev
- Station H...Efficient optimal transport full waveform inversion based on sinkhorn divergence: G. Zhang, J. Zhang (University of Science and Technology of China) Speaker: Gongwen Zhang

MME P2 Exploration Methods and Studies

10:20 a.m.-12:00 p.m.

Session Chairs: Parth Pokar and Xiaolong Wei

Location: Poster Location 1 (on the 3rd level)

- Station E.... An analysis of ZTEM data over the Wasatch Project, Utah: H. Peterson¹, D. Sattel², K. Witherly¹ (1. Condor Consulting; 2. EM Solutions) Speaker: Hannah Peterson
- Station F....New breakthroughs and exploration inspirations: Insight from the fine interpretation of the geological structure in Kuqa Depression, Tarim Basin, NW China: F. Ning¹, P. Li²

- (1. Sinopec Exploration & Production Research Institute; 2. Stanford University) Speaker: Fei Ning
- Station G ... Enhanced Uncertainty Quantification in Geophysical Inversion Using Langevin Transitional MCMC: Z. Zhang, X. Wei, J. Sun, Y. Huang, X. Wu, J. Chen (University of Houston) Speaker: Ziang Zhang
- Station H...Assessing the influence of lithium concentration on dielectric permittivity using frequency-dependent coaxial probe measurements of various hypersaline ionic solutions: J. C. Villarroel Salvatierra, D. M. Crisafulli, J. I. Amaro Estrada, L. W. Lake, C. Torres-Verdin (The University of Texas at Austin) Speaker: Julio Villarroel Salvatierra

NEF P3 Geologic Hydrogen 1

10:20 a.m.-12:00 p.m.

Session Chairs: Jiefu Chen and Lin Liang

Location: Poster Location 3 (on the 3rd level)

- Station E....Impact of mineralogical changes on Geologic Hydrogen **Production from Stimulated Serpentinization of Ultramafic** Rocks: C. C. Okezie, K. Oladoyin (New Jersey Institute of Technology) Speaker: Chinemerem Okezie
- Station F.... Electrical Imaging Beneath a Fairy Circle for Geologic Hydrogen Investigation: N. Perkovich (Colorado School of Mines) Speaker: Noah Perkovich
- Station G ... An Integrated Workflow for Characterizing and Estimating **Subsurface Volumes of Mafic and Ultramafic Rocks** using Potential Field and Petrophysical Data: Examples from Central Alaska: S. Bhattacharya, R. Arasada, E. Ukar (The University of Texas at Austin) Speaker: Shuvajit Bhattacharva
- Station H...Improving Hydrogen Storage Capability in Subsurface Caverns using Microporous Materials: W. Yan¹, R. Goteti², A. Atilgan², Y. Zayer² (1. Houston Research Center-Aramco Americas; 2. Aramco) Speaker: Weiyao Yan

NEF P4 Geologic Hydrogen 2

10:20 a.m.-12:00 p.m.

Session Chairs: Yawei Su and Sihong Wu

Location: Poster Location 4 (on the 3rd level)

- Station E....Seismic waveform modeling of underground hydrogen storage: J. Parsons, S. Mao, M. Mehana, N. Creasy (Los Alamos National Lab) Speaker: Jake Parsons
- Station F....1Hydrogen Generation and Reactivity in Organic-Rich Sedimentary Rocks: J. Radovic¹, P. Srinivasan¹, Q. Fu¹, Y. Zheng¹, Y. Han² (1. University of Houston; 2. Texas A&M University San Antonio) Speaker: Jagos Radovic
- Station G ... Role of Clays in Underground Hydrogen Storage: Insights from Lab-Scale Adsorption Experiments: S. Nyamasekpor, S. Sharma, S. Bowman (West Virginia University) Speaker: Sevram Nyamasekpor
- Station H...A geologic hydrogen investigation using magnetotelluric phase tensors: Case study from the UAE Ophiolite blocks: B. Cherkose, M. Zhang, Y. Li (Colorado School of Mines) Speaker: Biruk Cherkose

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NS P7 Seismic Applications 1

10:20 a.m.-12:00 p.m.

Session Chairs: Christine Downs and Ivan Sanchez

Location: Poster Location 1 (in the Exhibit Hall)

- Station A ...Seismic imaging of the hole of Bad Aussee: T. Burschil¹, G. Gabriel², D. C. Tanner², C. Schmalfuss³, M. Fiebig³ (1. Federal Institute for Geosciences and Natural Resources; 2. LIAG Institute for Applied Geophysics; 3. University of Natural Resources and Life Sciences) Speaker: Thomas Burschil
- Station B ...Mapping new subsurface faults in the Butte Valley, northern California: P. Neupane (Southern Methodist University) Speaker: Prajwal Neupane
- Station C ...Subsurface Characterization of a VMS Deposit Using Seismic Inversion: L. S. Aguilar, S. Hanafy (KFUPM)
 Speaker: Sherif Hanafy
- Station D ...Full-waveform inversion for imaging density variability in the near-surface soils: Y. Kawasaki¹, S. Minato², R. Ghose¹ (1. Delft University of Technology; 2. National Institute of Advanced Industrial Science and Technology) Speaker: Yusuke Kawasaki

NS P8 Seismic Applications 2

10:20 a.m.-12:00 p.m.

Session Chairs: Madeleine Pels and Shelby Peterie

Location: Poster Location 2 (in the Exhibit Hall)

- Station A ...Enhancing near-surface imaging accuracy by joint tomography of surface and cross-hole seismic first-arrival travel times: Z. Shi, T. Du, W. Yang (Zhejiang University)

 Speaker: Zhanjie Shi
- Station B ...Probability characterization of subsurface strata combining borehole and surface wave data: D. Wang¹, M. Peng¹, L. Liu², Y. Liang¹, J. Shen¹, F. Tao³, J. Zhao⁴, Y. Ma⁵ (1. Tongji University; 2. Chinese Academy of Science, Institute of Rock and Soil Mechanism; 3. Wuhan Changsheng Engineering Exploration Technology Development Co., Ltd; 4. Northwest A&F University; 5. Yunnan Agricultural University) Speaker: Liu Liu
- Station C ... Using Horizontal-to-Vertical Spectral Ratio (HVSR)

 Analysis to Explore Site Effects at the Mississippi

 Embayment Boundary: Z. Abbasi Hafshejani, S. Pezeshk

 (University of Memphis) Speaker: Zohreh Abbasi Hafshejani
- Station D ...Robust Seismic First Arrival Picking Using Gray Level Co-Occurrence Extracted Texture Features: A. A. Elmak, W. A. Mousa (King Fahd University of Petroleum & Minerals) Speaker: Wail Mousa

NS P9 Environmental Geophysics

10:20 a.m.-12:00 p.m.

Session Chairs: Moses Adebayo and Nicolette Filippone

Location: Poster Location 2 (in the Exhibit Hall)

- Station E....Drone-based Multiphysics Approach for Rare Earth
 Elements Quantification in Coal Wastes: Y. Wu¹, C. Chou¹,
 J. Chuang², B. Dafflon¹, J. Panaro³, B. Quiter¹, E. Rofors¹,
 R. Thibaut¹, J. Wang¹, M. Whittaker¹, J. Wu¹ (1. Lawrence
 Berkeley National Laboratory; 2. Rochester Institute of
 Technology; 3. Robindale Energy) Speaker: Yuxin Wu
- Station F....Time-lapse Hydrogeophysical Characterization of Nonsanitary Ghazipur Landfill, India: S. Pathan¹, T. Arora¹,

- A. Shakas², R. Pandey³ (1. CSIR- National Geophysical Research Institute, Hyderabad; 2. ETH Zurich; 3. Indian Institute of Science Education and Research (IISER)) Speaker: Sohelkhan Pathan
- Station G ...Long-term near-surface monitoring in Singapore using traffic-induced seismic noise: P. Wang, Y. Li (Purdue University) Speaker: Pinghao Wang

SP P13 Emerging Technologies

10:20 a.m.-12:00 p.m.

Session Chairs: Jing Yang and Heather Yao

Location: Poster Location 3 (in the Exhibit Hall)

- Station A ...Conical-Wave Reverse Time Migration of Vertical Seismic Profiling Data: C. Young1, J. C. Shragge¹, S. Haines², T. Collett² (1. Colorado School of Mines; 2. USGS) Speaker: Cullen Young
- Station B ...Separation-PINN: Seismic P- and S-waves mode separation with physics informed neural networks: X. Mu, S. Cheng, T. Alkhalifah (King Abdullah University of Science and Technology) Speaker: Xinru Mu
- Station C ... PS tomography with cross-correlation-based event matching: X. Liu¹, B. Yu¹, M. Luo¹, M. Liu², H. Niu², L. Chen² (1. Sinopec Tech Houston; 2. Sinopec) Speaker: Xuejian Liu
- Station D ... Tomography based on full azimuth angle domain common imaging gathers: M. Hu¹, K. Zhang², Z. Li² (1. The National Key Laboratory of Deep Oil and Gas; 2. China University of Petroleum (East China)) Speaker: Min Hu

STUD P6 Energy, Carbon Sequestration, and Geology

10:20 a.m.-12:00 p.m.

Session Chairs: Adedoyin Adeyilola and Weiting Peng

Location: Poster Location 5 (on the 3rd level)

- Station E.... Assessing Geothermal Gradient and Hot Sedimentary
 Aquifer (HSA) Potential for Geo-Exchange in Western
 Colorado, Piceance Basin: J. Tellez, M. Longworth
 (Colorado Mesa University) Speaker: Michael Longworth
- Station F....SEG EVOLVE 2024-2025 Carbon Solutions: New perspectives into the Sleipner Carbon Dioxide Capture and Storage project operation: M. Vijayaraj³, C. Luddeke¹, D. Gadela³, N. A. George³, A. T. Bebena², K. Gupta⁴, D. Joshi⁴, P. Kumar³, N. Vedanti³ (1. Clausthal University of Technology; 2. Institut Teknologi Sumatera; 3. CSIR-National Geophysical Research Institute; 4. Indian Institute of Technology (Indian School of Mines)) Speaker: Christian Luddeke
- Station G ...Petroleum system elements in the context of a unified stratigraphic framework for the Bowen-Gunnedah-Sydney Basin System of eastern Australia: J. Naher (University of Connecticut) Speaker: Jasmin Naher
- Station H...Structural modeling of duplex thrusting in the Ramelau Mountains of Timor-Leste: Implications for relative timing of hydrocarbon migration and trap emplacement:

 T. Nielsen¹, R. Harris¹, L. Peatross¹, A. Araujo², E. Martins²
 (1. Brigham Young University; 2. Institute of Geosciences of Timor-Leste) Speaker: Tanner Nielsen



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STUD P7 Provenance, Climate, and Tectonics

10:20 a.m.-12:00 p.m.

Session Chairs: Maria Madariaga and Aydin Shahtakhtinskiy

Location: Poster Location 6 (on the 3rd level)

Station E....Sediment Highways of the Late Cretaceous: Provenance and Depositional Age of the Iron Springs Formation in Southwest Utah: J. A. Robinson, S. M. Hudson, B. B. Britt, T. D. Austin (Brigham Young University) Speaker: Julie Robinson

Station F....WITHDRAWN

Station G ...Detrital zircon provenance of Guadalupian sandstones on the Northwestern Shelf of the Delaware Basin: Implications for postorogenic Permian sediment dispersal in Western Pangea: S. Juárez-Zúñiga¹, D. F. Stockli¹, C. Kerans² (1. The University of Texas at Austin; 2. UT Austin-BEG) Speaker: Sandra Juárez-Zúñiga

Station H...Milankovitch paleoclimatic, tectonic, and sedimentary signals in late Permian-Early Triassic fluvial-lacustrine records, Bogda Mountains, NW China: W. Zhang, W. Yang (Missouri University of Science and Technology) Speaker: Wan Yang

AAS P6 Reservoir Property Estimation

1:20 p.m.-3:00 p.m.

Session Chairs: Huseyin Tuna Erdinc and Atish Roy

Location: Poster Location 5 (in the Exhibit Hall)

Station A ...Diffusion-based sampling for quantifying subsurface uncertainty: M. Xu, M. Liu, K. Zhang, T. Mukerji (Stanford University) Speaker: Minghui Xu

Station B ...Multi-task deep learning prediction of porosity,
permeability and saturation: J. Gui, J. Gao, S. Li, B. Liu,
X. Guo (Research Institute of Petroleum Exploration &
Development-Northwest (NWGI), PetroChina) Speaker:
Jinyong Gui

Station C ...Stratigraphic structure-constraint walkaway-VSP first arrival tomographic velocity inversion: G. Zhang¹, H. Cai¹, Z. Zhang², W. Wei², T. Wang² (1. University of Electronic Science and Technology of China; 2. R&D Center for Ultra-Deep Complex Reservoir Exploration and Development, CNPC, Engineering Research Center for Ultra-deep Complex Reservoir Exploration and Development, Xinjiang Uygur Autonomous Region) Speaker: Guanlei Zhang

Station D ...Research on nonlinear inversion method of effective pressure in fractured reservoirs based on rock physics constraints: J. Dai², Y. Zeng¹, L. Zhang², S. Wen², K. Zhang¹, W. Ying² (1. Beijing Precise Energy Technology Co., Ltd; 2. PetroChina Southwest Oil & Gasfield Company) Speaker: Yongjian Zeng

AAS P7 CO₂ and Methane Study

1:20 p.m.-3:00 p.m.

Session Chairs: Arnab Dhara and Son Phan

Location: Poster Location 6 (in the Exhibit Hall)

Station A ...Reservoir characterization utilizing quantitative seismic interpretation and machine learning techniques for geological carbon storage: V. Sreejesh, C. Knapp, J. Knapp (Oklahoma State University) Speaker: Venmarathil Sreedhar Sreejesh

Station B ...Carbon storage estimation of the red beds of Hazlehurst using post-stack seismic inversion, southern Georgia: F. D. Nsansi (Oklahoma State University) Speaker: Faustino Nsansi

Station C ... What Restricts the Lateral Extent of CO₂ Plume Migration at the Sleipner Injection Site?: B. O. Nwafor¹, J. Castagna¹, E. Bass¹, R. Van Eykenhof² (1. University of Houston, Tx; 2. Lumina Geophysical LLC) Speaker: Basil Nwafor

Station D ...Research on Coalbed Methane Prediction Methods in the Ordos Basin: H. Pan, J. Gao, W. Zhao, J. Gui (Research Institute of Petroleum Exploration & Development-Northwest (NWGI), PetroChina) Speaker: Hui Pan

FWI P10 Elastic

1:20 p.m.-3:00 p.m.

Session Chairs: Junxiao Li and Wanying Wang

Location: Poster Location 4 (in the Exhibit Hall)

Station A ...Elastic FWI imaging by linking Lamé gradients to P/S reflections in heterogeneous media: Q. Du¹, W. Lv¹, J. Bai², P. Sun³, Z. Zou³, J. Zhang³, L. Ren¹ (1. China University of Petroleum (East China); 2. AspenTech; 3. Bureau of Geophysical Prospecting Inc., CNPC) Speaker: Qizhen Du

Station B ... The power of elastic FWI with sparse ocean-bottom node acquisition for complex subsalt imaging: H. Xing, R. Huang, Y. Li, C. Macesanu, F. Liu, M. Hegazy (TGS) Speaker: Richard Huang

Station C ...Multiparameter inversion applied to ocean bottom node data from Santos Basin: J. Burren, E. Frugier (TGS) Speaker:
Jon Burren

Station D ...Source-independent integral wavefield elastic parameter waveform inversion: B. Zhang, G. Wu, Z. Jia, L. Yang, S. Yang (China University of Petroleum (East China)) Speaker: Sen Yang

NS P10 Voids and Seismic

1:20 p.m.-3:00 p.m.

Session Chairs: Thomas Burschil and Yanwei Zhang

Location: Poster Location 2 (in the Exhibit Hall)

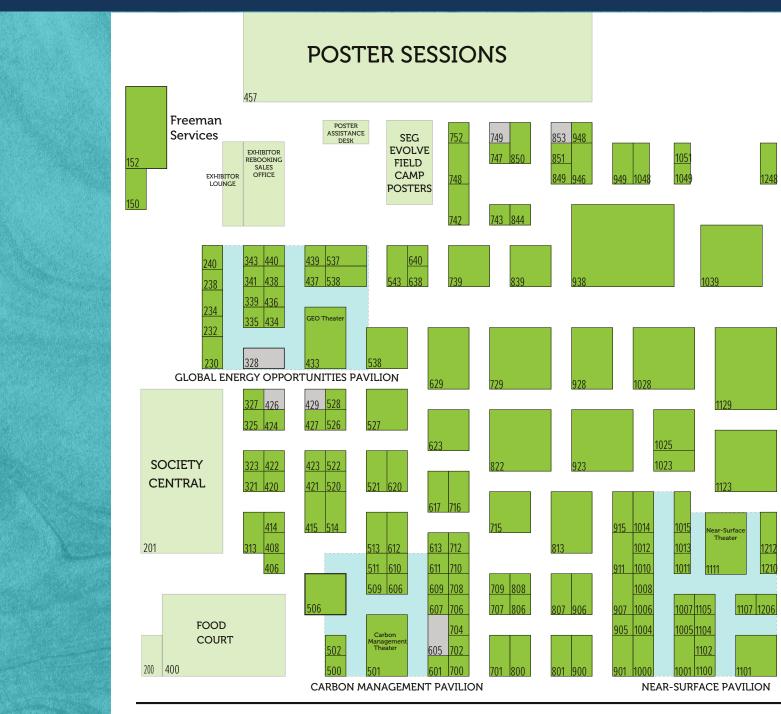
Station A ...3-D elastic time-reverse imaging of a void anomaly: A case history: M. Pels, J. C. Shragge, A. Girard (Colorado School of Mines) Speaker: Madeleine Pels

Station B ...Monitoring near-surface changes using wind turbineinduced seismic noise: S. Mukherjee, Y. Li (Purdue University) Speaker: Sayan Mukherjee

Station C ... Analysis of the influence with climate on near-surface data: S. Yuan, H. Cui, H. Li, X. Zhang, Z. Cheng (BGP)
Speaker: Hongliang Cui

Exhibit Hall

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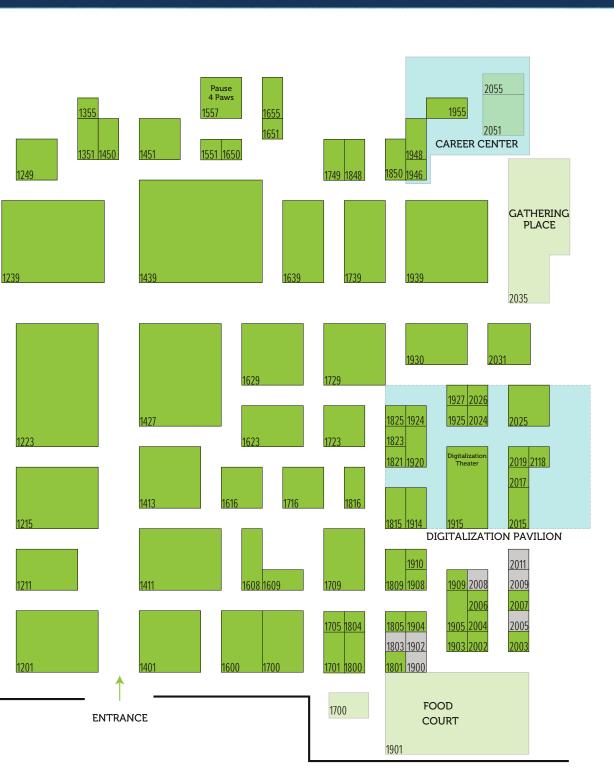


Exhibition Hours:

Monday, 25 August Exhibition and Icebreaker Reception 5:30 p.m.–7:30 p.m. Tuesday, 26 August Exhibition 9:00 a.m.-6:00 p.m.

Wednesday, 27 August Exhibition 9:00 a.m.-6:00 p.m.

Thursday, 28 August Exhibition 9:00 a.m.–3:00 p.m.



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Exhibitor List

Exhibitor list is current as of 23 July 2025

For more detailed information about exhibitors, their business categories, products, and services, please refer to the IMAGE mobile app.

Exhibitor Name	Booth Number	Exhibitor Name	Booth Number
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AAPG Divisions		Eliis	
AAPG Foundation		Ellington Geological Services	511
Absolute Imaging Inc		EMGS ASA	
ACT-GEO		Energy & Geoscience Institute	
ACTeQ		Engenius Software	
Advanced Geophysical Technology Inc		Envoi Limited	
Advanced Logic Technology SA		ESRI	
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		FOOD COURT	
Atlas Fluid Controls		FOOD COURT KIOSK	
Avalon Sciences Ltd		FOSINA FREEMAN SERVICE DESK	
Badley Ashton			
Baker Hughes		Fugro	
Baylor University Department of Geosciences		Gathering Place	
BEG CORE EXHIBIT		Geo Ex Machina (GEM)	
BEICIP Inc.		GEO EXPRO	
BGP Inc.		GeoCare Benefits Group Insurance Program	
Bits of Nature LLC		GEODEVICE	
Bluware, a CMG company		GeoEdges Inc	
Bruker AXS		Geoex MCG	
C&C Reservoirs		GeoLogica Training	
Carbon Management Theater		Geology and Petroleum Department, Ministry of	
Career Coaching Pod		Petroleum and Mining, Government of Belize	
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CEL - El Salvador		Geometrics Inc.	
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C02 Coalition		GeoMind	
CO2-SMART		GeoPartners Limited	
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CSA Ocean Sciences		Geophysical Technology Inc	
Danomics		GeoScienceWorld	
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Datapages		Geospace Technologies	
dataVediK		Geostuff	
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EAGE - European Association of Geoscientist	~	Halliburton	
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i2k Connect Inc.		Premier Corex	
Ikon Science		PXGEO	1739
Imaged Reality Ltd		Qeye	
In-Depth Geophysical, Inc.		R.T. Clark Co. Inc.	
inApril		RadExPro seismic software	
Innova Plex Inc		Rare Earth Mercantile	
INOVA Geophysical		Resolve GeoSciences, Inc.	
Instituto Nacional de Petroleo - Mozambique		RevoChem	
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		Rock Flow Dynamics	
ISTI		*	
JILIN UNIVERSITY		ROGII Inc.	
Jio, a Lumina Company		RPS (a Tetra Tech company)	
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Kuwait Geosciences Society		S&P Global Commodity Insights	
Kuwait Oil Company		SAExploration	
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Leobersdorfer Maschinenfabrik GmbH (LMF)		Sander Geophysics	
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Lumina Geophysical		SAUDI GEOPHYSICAL	1729
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Oklahoma State University		SEPM Society for Sedimentary Geology	
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Optiseis Solutions Ltd		SHEARWATER	
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Paragon Geophysical Services, Inc.		SLB	
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Troika International Limited	
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