

AAPG

# ACE2019

ANNUAL CONVENTION & EXHIBITION

Incorporating the SEPM Annual Meeting

19-22 MAY | SAN ANTONIO, TEXAS

## PROGRAM BOOK

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# THANK YOU SPONSORS

## DIAMOND



Registration, Student and Faculty Lounge,  
AAPG HoD/PROWESS/DEG Networking  
Reception, SEPM Short Course #6, SEPM  
Field Trip #1



Attendee Bags, Tuesday Coffee Break,  
Icebreaker Reception, Technical  
Session Signage



Student Participation in Field Trips and  
Short Courses, AAPG/SEPM Student  
Reception, SEPM General Sponsor

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Program Book, Smartphone/Mobile App, Poster Sessions



Student Awards - Best Papers for Oral and Poster  
Presentations, Technical Program Notepads, AAPG Student  
Chapter YouTube Competition, Young Professionals Reception

## TITANIUM



Poster Sessions, Technical Abstracts-  
Proceedings Online



Smartphone/Mobile App



Aisle Signage



Wi-Fi Hot Spot, Student Volunteers,  
Student Participation in Field Trips and  
Short Courses, AAPG HoD/PROWESS/  
DEG Networking Reception



AAPG HoD/PROWESS/DEG Networking Reception,  
Outstanding Student Chapter Awards, General Fund

## PLATINUM



Directional Signage



Student Volunteers, Student Participation in Field  
Trips and Short Courses, Student Attendance,  
Young Professionals Field Trip



Lanyards, Petroleum  
Structure & Geomechanics  
Division (PSGD)



General fund



Audio Visual



Attendee Bags



Technical Session Signage



## GOLD



Poster Sessions



General Fund



Young Professionals  
Meet & Greet



General Fund, AAPG Twitter  
Tweet

## BRONZE



General Fund



End-of-Day Reception Bar



General Fund



End-of-Day Reception Keg



General Fund



General Fund



Division of Environmental  
Geosciences (DEG)



General Fund

## INTERNATIONAL PAVILION



Corporate Level



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Corporate Level



Gold Level



Gold Level



Gold Level



Silver Level



Silver Level



Bronze Level

## PATRON



General Fund



Young Professionals  
Field Trip



General Fund

## MEDIA & SUPPORTING ORGANIZATIONS



# WELCOME LETTER FROM THE GENERAL CO-CHAIRS

On behalf of the American Association of Petroleum Geologists (AAPG), its divisions, the Society of Sedimentary Geology (SEPM), the host societies—the South Texas Geological Society (STGS) and the Austin Geological Society (AGS), and the Organizing Committee, it is our pleasure to welcome you to the Henry B. Gonzalez Convention Center in San Antonio for the AAPG 2019 Annual Convention and Exhibition (ACE)—*A Sustainable Future*.

San Antonio is a historic city rich in culture and diversity, all of which are readily on display. We have many trips and excursions offered to share these local gems with you and your guests, so be sure to take advantage. At the same time, San Antonio is at the doorstep of one of the busiest and most prolific oil and gas producing provinces in the country. At the edge of the beautiful Texas Hill Country, uniquely positioned between the outcrops of world-class reservoirs and the basin where those formations produce, San Antonio makes for a fantastic industry crossroad and a near-perfect setting for the technical program this convention seeks to deliver.

Our program is fully aligned with the conference theme, *A Sustainable Future*, offering a healthy combination of topics that are relevant to those of us who have the responsibility of finding and producing the hydrocarbons that are needed to fuel our society, as well as introducing a series of topics that will challenge us to incorporate technological advances into our workflows, business considerations into our thinking, and commitment to the good stewardship of our planet.

In addition to the technical program, you will have access to interesting luncheons and forums including, The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists, on Tuesday afternoon where a diverse and energetic group of panelists and moderators will be sharing their experiences and views regarding the state of our industry. Our luncheons this year are also something not to be missed, from the All-Convention Luncheon on Driving Sustainability Innovation with Open Data and Cloud Technology for O&G Applications with Arno van den Haak (AWS) to the DEG/EMD Luncheon on the Global Energy Transition—An Uncertain Outcome Driven by Developments in Policy, Technology, and Behavior with Eirik Wærness (Equinor). Take full advantage of these events and bring a voice to ask questions and interact with these great panelists and presenters.

We are extremely proud of this program and we want to thank the effort and dedication of the ACE 2019 Organizing Committee, including theme and session chairs, reviewers and all of you who will be presenting technical work during this week. Our hope is that you are able to take full advantage of the convention and the city. Thank you again for joining us in San Antonio this week. Stay safe, learn, network, conduct business but also have fun!



**LORENA MOSCARDELLI AND EDWARD VALEK**

*General Co-Chairs*

**AAPG 2019 Annual Convention and Exhibition**

A handwritten signature in black ink, appearing to read 'Lorena'.

A handwritten signature in black ink, appearing to read 'E. Valek'.





# AAPG

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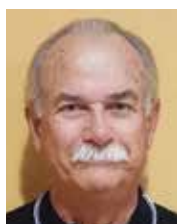
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# GENERAL INFORMATION

## ACE Service Center – Presenters, Judges, and Student Volunteers

<b>Location:</b>	Room 212
<b>Hours:</b>	Sunday ..... 10:00 am–6:30 pm
	Monday ..... 7:00 am–5:30 pm
	Tuesday ..... 7:00 am–5:30 pm
	Wednesday ..... 7:00 am–5:30 pm

Check-in and assistance for presenters, judges, and student volunteers can be found at the ACE Service Center.

- Oral presenters should visit the Service Center the day prior to their presentation to upload their slides and ensure they appear correctly. Technical support will be available.
- Student volunteers who signed up during the registration process should check in at the Service Center at least fifteen minutes before their scheduled shift begins.
- Judges for both oral and poster sessions can visit the Service Center at any time to pick up scorecards for their assigned sessions. If you haven't yet signed up to judge, it's not too late – we are always looking for more judges! Stop by the Service Center to choose your session.

## Code of Conduct

The American Association of Petroleum Geologists Annual Convention and Exhibition (ACE) is conducted for the benefit of its members and interested parties to advance the science of geology, promote technology, and facilitate networking and collaboration between professionals within the world's geosciences community.

AAPG values the participation of its members and guests and wants all ACE attendees to have an enjoyable and fulfilling experience. Accordingly, AAPG is dedicated to providing a harassment-free convention experience for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, or religion. We do not tolerate harassment of convention participants in any form. All attendees are expected to show respect and courtesy to other attendees throughout the convention and at all convention events, whether officially sponsored by AAPG or not.

If a participant engages in behavior that violates this code of conduct, AAPG 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.

AAPG's complete ACE anti-harassment policy can be found at [ACE.AAPG.org](http://ACE.AAPG.org).

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

## Business Center

<b>Days and Times:</b>	Monday–Friday ..... 8:00 am–6:30 pm
	Saturday ..... 9:00 am–5:00 pm
<b>Location:</b>	Near Main Lobby Entrance

The UPS Store  
200 E. Market Street, Suite 101  
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Email: [store4180@theupsstore.com](mailto:store4180@theupsstore.com)  
Website: [www.theupsstorelocal.com/4180](http://www.theupsstorelocal.com/4180)

## Wi-Fi Hot Spot

**Location:** Exhibit Hall, Booth #1319  
For your convenience the ConocoPhillips Wi-Fi Hot Spot is available in the Exhibit Hall during open hours. Come relax, check your email and stay connected at ACE. Login: ACE19 Password: CONOCOPHILLIPS

## Luggage Check

<b>Day:</b>	Wednesday
<b>Hours:</b>	7:30 am–5:30 pm
<b>Location:</b>	Main Lobby

A luggage check is available at a cost of \$2.00 per item checked.

## Lost and Found

**Location:** Registration (Main Lobby)  
Items found during the convention should be turned in to Main Registration. If you lose an item, check with Registration. If your item has not been turned in, you may leave information on how to contact you should the item be found.

## No Smoking Policy

Smoking is prohibited at the Henry B. Gonzalez Convention Center.

## How to Get Around

VIA Metropolitan Transit is San Antonio's public transportation agency offering service throughout the city including streetcar service within the downtown area.

Once in the downtown area, VIA's streetcar service offers stops to or near most hotels, restaurants, the convention center and many visitors' hot spots. For added convenience, VIA offers a \$4 Day Pass for purchase online and in advance of your trip. A Day Pass is good for unlimited rides on all regular bus and streetcar services for the one day indicated on the pass. The Day Pass will be activated the first time boarding the bus or streetcar. For more details, visit [www.viainfo.net](http://www.viainfo.net).

## Convention Center Parking

The Henry B. Gonzalez Convention Center offers several convenient near-by parking options. Rates, locations, and additional information can be found at [ACE.AAPG.org](http://ACE.AAPG.org).

1. Grand Hyatt Parking Garage
2. Convention Center Garage
3. Convention Center South Parking
4. Riverbend Garage
5. Tower of the Americas Parking
6. Shops at the River Center – Commerce
7. Shops at River Center – Crockett

## Safety and Security

### First Aid

<b>Location:</b>	Room H3-02 (Exhibit Hall 3/under Southwest Escalators)
<b>Hours:</b>	Saturday ..... 8:00 am–8:00 pm
	Sunday ..... 7:00 am–8:00 pm
	Monday ..... 7:00 am–8:00 pm
	Tuesday ..... 7:00 am–8:00 pm
	Wednesday ..... 7:00 am–5:00 pm

## Security and Emergencies

Report any security or emergency issues to one of the following:

- Security Personnel located at the Exhibit Hall Entrance
- AAPG Show Management at Main Registration
- Kendra McColloch at +1 918 284 5451

## Badge Reminder

Badges must be worn at all times while attending the convention inside the Henry B. Gonzalez Convention Center and the Grand Hyatt San Antonio.

## Hotel Listing

**Grand Hyatt San Antonio (AAPG Headquarters)**  
600 E. Market St. San Antonio, Texas 78205 | +1 210 224 1234

**San Antonio Marriott Riverwalk (SEPM Headquarters)**  
889 E. Market St. San Antonio, Texas 78205 | +1 210 224 4555

**Hilton Palacio del Rio**  
200 S. Alamo St. San Antonio, Texas 78205 | +1 210 222 1400



# SCHEDULE AT A GLANCE (Download the AAPG Events App for the latest updates)

All events take place at the Henry B. Gonzalez Convention Center unless otherwise noted.

## Friday

9:00 am–6:00 pm Satellite Registration (Grand Hyatt San Antonio)  
1:00 pm–5:00 pm Registration

## Saturday

8:00 am–5:00 pm Registration  
8:00 am–6:00 pm Satellite Registration (Grand Hyatt San Antonio)  
6:00 pm–7:30 pm AAPG HoD/PROWESS/DEG Networking Reception (Grand Hyatt San Antonio)

## Sunday

7:00 am–6:00 pm Satellite Registration (Grand Hyatt San Antonio)  
8:00 am–7:00 pm Registration  
11:35 am–2:40 pm Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs  
2:00 pm–3:00 pm Young Professionals Meet & Greet  
3:00 pm–3:30 pm AAPG/AAPG Foundation Imperial Barrel Award (IBA) Ceremony  
4:00 pm–5:00 pm Opening Session and Awards Ceremony  
5:00 pm–7:30 pm Exhibition and Icebreaker Reception

## Monday

7:00 am–1:00 pm Satellite Registration (Grand Hyatt San Antonio)  
7:00 am–5:30 pm Registration  
8:00 am–3:00 pm Guest Hospitality Suite (Grand Hyatt San Antonio)  
8:00 am–1:50 pm Oral Sessions (Morning)  
9:00 am–12:00 pm Poster Sessions (Morning)  
8:30 am–5:00 pm Career Center  
9:00 am–6:00 pm Exhibition  
9:00 am–6:00 pm Student and Faculty Lounge  
9:15 am–10:15 am Refreshment Break  
10:00 am–2:30 pm Guest Tour: Grand Historic City Tour  
10:00 am–5:00 pm Guest Tour: Texas Hill Country  
11:30 am–1:15 pm All-Convention Luncheon  
1:15 pm–5:05 pm Oral Sessions (Afternoon)  
1:15 pm–5:05 pm Discovery Thinking Forum  
1:30 pm–5:00 pm International Pavilion Theatre  
1:30 pm–5:00 pm Poster Sessions (Afternoon)  
2:30 pm–3:30 pm Refreshment Break  
4:00 pm–6:00 pm Student Career Seminar (Grand Hyatt San Antonio)  
5:00 pm–6:00 pm End-of-Day Reception  
5:00 pm–6:00 pm International Pavilion Open House Reception  
5:10 pm–6:00 pm Michel T. Halbouty Lecture  
5:30 pm–7:30 pm All-Alumni Reception (Grand Hyatt San Antonio)  
6:00 pm–8:00 pm AAPG/SEPM Student Reception (Grand Hyatt San Antonio)  
7:00 pm–10:00 pm SEPM Research Group Meetings and Reception (Marriott Riverwalk)

## Tuesday

7:30 am–5:30 pm Registration  
8:00 am–11:50 am SEPM Research Symposium  
8:00 am–3:00 pm Guest Hospitality Suite (Grand Hyatt San Antonio)  
8:00 am–11:50 am Oral Sessions (Morning)  
9:00 am–12:00 pm Poster Sessions (Morning)  
8:30 am–5:00 pm Career Center  
9:00 am–2:00 pm Guest Tour: Historic Pearl Brewery  
9:00 am–3:00 pm Guest Tour: Gruene Historic District  
9:00 am–6:00 pm Exhibition  
9:00 am–6:00 pm Student and Faculty Lounge  
9:15 am–10:15 am Refreshment Break  
9:30 am–5:00 pm International Pavilion Theatre  
11:30 am–1:00 pm DPA Luncheon: Re-Inventing Yourself to Stay Relevant in an Ever-Changing Geoscience Technical Climate  
12:00 pm–1:00 pm SEPM Business Meeting Luncheon: Seismic Geomorphology – From the Earth's Ocean Depths to the Distal Planets, A Revolution in Reconstructing Landscape Form and Processes  
1:15 pm–2:40 pm The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists  
1:15 pm–5:05 pm SEPM Research Symposium  
11:15 am–5:05 pm Oral Sessions (Afternoon)  
1:30 pm–5:00 pm Poster Sessions (Afternoon)  
2:30 pm–3:30 pm Refreshment Break  
3:20 pm–5:05 pm DEG Special Session: Environmental Impact and Sustainability  
5:00 pm–6:00 pm End-of-Day Reception  
6:00 pm–9:30 pm Social Activity: San Antonio Charreada  
7:00 pm–9:00 pm SEPM President's Reception and Awards Ceremony (Marriott Riverwalk)

## Wednesday

7:30 am–1:00 pm Registration  
8:00 am–12:00 pm Guest Hospitality Suite (Grand Hyatt San Antonio)  
8:00 am–11:50 am Applied Ichology Session  
8:00 am–11:50 am Oral Sessions (Morning)  
9:00 am–12:00 pm Poster Sessions (Morning)  
8:30 am–12:00 pm Guest Tour: San Antonio Shoe Factory  
8:30 am–2:00 pm Career Center  
9:00 am–1:00 pm Guest Tour: Spanish Missions  
9:00 am–2:00 pm Exhibition  
9:00 am–2:00 pm Student and Faculty Lounge  
9:15 am–10:15 am Refreshment Break  
9:30 am–11:30 am International Pavilion Theatre  
11:30 am–1:00 pm DEG/EMD Luncheon: Global Energy Transition–An Uncertain Outcome Driven by Developments in Policy, Technology, and Behavior  
1:15 pm–5:05 pm Oral Sessions (Afternoon)

**Short Course and Field Trip information can be found on pages 36 and 38.**

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# Highlights

Step Changes in Petroleum Geology:  
Historical Challenges and Technological  
Breakthroughs

AAPG/AAPG Foundation Imperial  
Barrel Award (IBA) Ceremony

Opening Session and  
Awards Ceremony

Discovery Thinking Forum

Michel T. Halbouty Lecture

SEPM Research Symposium

The Big Crew Change: Passing the  
Baton and Challenges Awaiting  
Mid-Career Geoscientists

DEG Special Session

Applied Ichnology Session

Special Session on Salt Tectonics

Data Science Revolution –  
A Sign of the Times

Business and Finance: Where the  
Subsurface and the Commercial  
Combine to Create Value!

## Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs

**Day:** Sunday  
**Time:** 11:35 am–2:40 pm  
**Location:** Room 217 D  
**Fee:** Included with registration  
**Co-Chairs:** A. Haddad and M. Silverman

The History of Petroleum Geology Committee will again hold its annual forum in a special session of high-quality papers. We will explore technological advances that have been integral to discovering and developing conventional and unconventional fields.

Alan Burnham will lead off the session with a discussion of politics and geology in Livermore, California. He'll be followed by Kenneth Peters, speaking on the transformation the industry experienced at the advent of computerized petroleum systems models.

Frances Hein will review the contributions of the Alberta Geological Survey. Next up, Ray Sorenson will speak on the beginnings of unconventional shale plays. Kim Senger's paper will give a history perspective on exploration in Norway. Then, Drielli Peyerl will tell the stories of two key geologists in Brazil.

Paul Markwick will present the impact paleogeographic maps have had on exploration. Paul's talk will be followed by Douglas Carlson who will review the major trends in the AAPG over the last 100 years. Finally, Jean-Sebastian Marcil will take us through the unique exploration history of the Gaspé basin.

This promises to be a memorable session full of fine examples of challenges petroleum geology has faced by making step changes in technology.

*The purpose of the History of Petroleum Geology Committee is to preserve and promote the history and heritage of the evolution of geological concepts and technologies used in the search for oil and gas worldwide and honor the memory of the men and women who moved history forward.*

## AAPG/AAPG Foundation Imperial Barrel Award (IBA) Ceremony

**Day:** Sunday  
**Time:** 3:00 pm–3:30 pm  
**Location:** Hemisfair Ballroom 2/3  
**Fee:** Included with registration

Join the excitement and make sure to attend as the winners of this year's global AAPG/AAPG Foundation Imperial Barrel Award competition will be announced in a thrilling awards ceremony that is open for all to attend – giving you the chance to experience it in person. It's also a great way to start your ACE 2019 experience, as the awards presentation will take place just prior to the convention's Opening Session and Awards Ceremony. Come a bit early and be part of the excitement.

The AAPG/AAPG Foundation IBA program is an annual competition in evaluating prospective basins, featuring teams of the top geoscience graduate students from around the world – all of whom have qualified for the finals by first winning IBA Region and

Section competitions. The fast-moving presentation will include an introduction of the IBA program and all the teams who made it to the finals and recognition of the many generous sponsors who make the program possible. It all leads to the grand finale – the announcement of this year's winning teams. Come help us celebrate the accomplishments of these hard-working students – and see which teams win scholarship funds for their geosciences departments and applaud the school that leaves San Antonio with the title of IBA champion.

## Opening Session and Awards Ceremony

**Day:** Sunday  
**Time:** 4:00 pm–5:00 pm  
**Location:** Hemisfair Ballroom 2/3  
**Fee:** Included with registration

One of the grand traditions of the AAPG Annual Convention and Exhibition, the Opening Session and Awards Ceremony is a highlight of every ACE. This year, General Co-Chairs Lorena Moscardelli from Equinor's Research Center in Austin and Eddie Valek from EOG Resources in San Antonio will be opening the meeting with an overview of the exciting additions to the technical program and the many attractions that San Antonio has to offer to ACE attendees. Both Lorena and Eddie are enthusiastic supporters of AAPG in the region and well-known members of the Geoscience community in Texas and beyond.

Following Lorena and Eddie, AAPG President Denise Cox will deliver her presidential address to the membership focusing on the theme of the convention "A Sustainable Future." David Cook, AAPG Vice President-Regions, will be at the podium to honor the best of AAPG during the fast-moving, colorful, and entertaining annual awards ceremony.

## Discovery Thinking Forum – "Pioneering Discoveries" Driving Prosperity

**Day:** Monday  
**Time:** 1:15 pm–5:05 pm  
**Location:** Hemisfair Ballroom 1  
**Fee:** Included with registration  
**Chair:** C. Sternbach

The "Discovery Thinking" Forum will be the twenty-first presentation of the AAPG 100th Anniversary Committee's program recognizing "100 Who Made a Difference." These Forums, co-sponsored by AAPG's Division of Professional Affairs (DPA), will feature invited speakers who will describe major and significant discoveries. We are pleased to announce this Forum will continue at San Antonio ACE 2019 with four very notable discovery presentations.

Each speaker and their colleagues overcame significant business, technical, and professional challenges. Topics to be discussed will include philosophy of exploration, stories from remarkable careers, professional insights, colorful anecdotes, and lessons learned on the path to success. As technology advances and younger geoscientists enter our profession, the organizers see continued interest in forums such as these. These forums provide a venue for explorers to discuss the personal side of success and what has been called the



“art of exploration.” As always, the audience is fortunate to hear the speakers share abundant technical data and insights derived from costly and hard-won experience.

AAPG offers many technical sessions. “Discovery Thinking” forums fill an important gap in how technical and professional skills combine to turn prospects into discoveries. Speakers are encouraged to share personal stories about discoveries they know well, to bring forward appropriate technical data, and to address questions from the audience. As a resource to fellow explorers, many previous Discovery Thinking presentations can be found on the AAPG Search and Discovery website under the Special Collection tab.

This year, AAPG is pleased to present “Pioneering Discoveries.” San Antonio is a center of pioneering spirit and well-positioned to feature significant exploration discoveries of the western hemisphere.

- **ExxonMobil Guyana Exploration and Discovery:** Maria C. Guedez, Guyana Exploration Manager, ExxonMobil Exploration Company
- **Discovery of Oil in Belize After Fifty Dry Holes: Geological Insights and Exploration Timeline:** Susan Morrice, Cofounder and Chairperson, Belize Natural Energy Ltd
- **Permian Basin Wolfberry and Wolfbone: Discovery of World-Class Resources in a Mature Basin and New Insights:** Bill Fairhurst, Texas Bureau of Economic Geology and President, Riverford Exploration, LLC
- **Discovery of the Unconventional Vaca Muerta Shale Play in the Neuquén Basin, Argentina:** Carlos E. Macellari, Director of Exploration and Development, Tecpetrol

## Michel T. Halbouty Lecture: The Future of Oil and Gas Exploration



**Day:** Monday  
**Time:** 5:10 pm–6:00 pm  
**Location:** Hemisfair Ballroom 1  
**Fee:** Included with registration  
**Speaker:** **Stephen M. Greenlee**, President, ExxonMobil Exploration Company

*The Michel T. Halbouty lecture series – funded by the AAPG Foundation – is an ongoing special event at the AAPG Annual Convention and Exhibition. Lecture topics are designed to focus either on wildcat exploration in any part of the world where major discoveries might contribute significantly to petroleum reserves, or space exploration where astrogeological knowledge would further mankind's ability to develop resources on Earth and in the Solar System.*

Oil and gas exploration has long enabled societal benefits from affordable, abundant and reliable energy supplies while providing resource owners, companies and investors long lived revenues and profits. Recently, however, exploration investment has come under increasing scrutiny from stakeholders with concerns regarding future oil and gas demand predictions, climate change, investment returns relative to alternatives, and skepticism regarding the existence of large undiscovered resources. Many companies have reduced focus

on conventional exploration. Many others have abandoned it in favor of North American unconventional and corporate and asset acquisitions.

With an unprecedented range of opportunities for reserve replacement facing executives today, most oil and gas companies do not view exploration as their sole vehicle to sustain and grow reserves, but rather as one of many tools to enhance portfolio value. As a result, sustainable and valued exploration programs must deliver resources with the quality to displace other opportunities and justify near-term development investment.

To meet this high threshold, exploration industry performance must improve. Successful future explorers will be led by those that not only integrate and fully comprehend the diversity of technical analysis, but also the commercial and business opportunities presented by the full oil and gas value chain. They will easily access and manipulate all available data and will gain insight through data analytics beyond what their experience allows, while embracing entirely new technologies which will enable both more certain recognition of yet to find resources and lower development costs. Finally, new partnerships with resource holders must be established to ensure that terms recognize the realities of modern exploration and resource development as well as the specific and unique needs of the countries providing access.



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## SEPM Research Symposium: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record

**Day:** Tuesday  
**Times:** 8:00 am–11:50 am & 1:15 pm–5:05 pm  
**Location:** Hemisfair Ballroom 1  
**Fee:** Included with registration  
**Co-Chairs:** A. Fildani, K. Gomez, and J. Covault



The world faces significant challenges in energy resources and sustainability, including securing petroleum resources, accessing clean water for human consumption, and mitigating rising temperatures during the 21st century. Living in a sustainable world requires societal and ecologic balance, one that demands no more of the environment than it can sustain over the long term. Geoscientists are uniquely qualified to address these challenges given their multi-disciplinary training in the study of Earth's systems and processes over a range of time scales.

The 2019 Society for Sedimentary Geology (SEPM) Symposium is bringing together a diverse group of dynamic speakers to present forward-looking research addressing the role of sedimentary geoscience in challenges in energy resources and sustainability. The Symposium includes a traditional oral session of 6 Keynote Speakers representing the "pillars" of sedimentary geosciences and, for the first time at ACE, a Presenting Interactive CoContent (PICO) Session. The PICO Session will allow authors to share their work in two-minute oral presentations, followed by presentations on interactive screens and/or traditional posters.

### Morning Session – Keynote Speakers:

- **Carbon Sequestration Through Time and Its Role as an Overlooked Driver of Earth's Long-Term Climate History:** Kristin D. Bergmann, Nicholas Boekelheide, Adam B. Jost, Marjorie Cantine, Tyler Mackey
- **Tracking Anoxia in Ancient Oceans: Potential and Limitations of Paleoredox Proxies in Carbonate Rocks:** Kimberly V. Lau, Dalton S. Hardisty, Benjamin C. Gill, Timothy W. Lyons
- **Understanding Muddy Sedimentary Strata on Continental Margins: Significance, Knowledge Gaps, and One Perspective on What We Need for the Future:** Samuel Jackson Bentley
- **Towards a Better Understanding of Architecture and Pore-Space Distribution in Clastic Sediments and Rocks: Studying Sedimentary Systems Using Simple Stratigraphic Forward Models:** Zoltan Sylvester
- **Improving Subduction Zone Hazards Assessments Using the Coastal Stratigraphic Record:** Tina Dura
- **Sedimentology in Fifty Years:** John B. Thurmond

### Afternoon Session – PICO Presentations:

- **Understanding Ice-Sheet Vulnerability Using an Integrated Subsurface Sedimentary Geoscience Approach: Preliminary Results from Neogene and Quaternary Records Acquired During IODP Expedition 374 to the Ross Sea, Antarctica:** Brian W. Romans, Laura De Santis, Robert M. McKay, Denise K. Kulhanek, Expedition 374 Scientists

- **Submarine Fans, the Carbon Cycle, and Climate Models:** Angela M. Hessler
- **Opportunities for Incorporating Deep-Time Insight About Landscape Dynamics into Engineering and Decision-Making Models:** Elizabeth Ann Hajek, Vamsi Ganti, Evan Greenberg
- **Using Earth's Sedimentary Record to Inform Studies of Delta Channel Deposits on Mars:** Timothy A. Goudge, David Mohrig, Benjamin T. Cardenas, Cory M. Hughes, Caleb I. Fassett
- **Conservation Paleobiology— Using Ancient Examples of Marine Extinctions to Understand and Mitigate Future Ecosystem Collapse:** Rowan Clare Martindale, William Foster, Anna M. Weiss
- **Exploiting Autogenic Sedimentary Processes to Synchronize Geologic and Modern Timescales of Environmental Change:** Brady Z. Foreman, Kyle M. Straub
- **Predictions for the Width of River Channel Belts From Physical Experiments and the Rock Record:** Ajay B. Limaye, Chris Paola
- **Integrating Observations From Recent Seafloor Surveys With the Deep-Water Stratigraphic Record: Implications for Securing Energy Resources, Geohazard Assessments, and Other Potential Applications:** Stephen M. Hubbard, Rebecca Englert, Matthieu Cartigny, Michael Clare, Joris Eggenhuisen, Zane Richards Jobe, Sophie Hage, Maarten Heijnen, Daniela Vendettuoli
- **Building a Geothermal Future on a Sedimentary Foundation:** John Millard Holbrook
- **Hydrologic Variability and Fluvial Responses to Increased Warming During the Paleocene–Eocene Thermal Maximum, Piceance Creek Basin, Colorado, USA:** Anna K. Lesko, Brady Foreman

## The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists

**Day:** Tuesday  
**Time:** 1:15 pm–2:40 pm  
**Location:** Room 213 A/B  
**Fee:** Included with registration  
**Moderators:** **Stephanie Nwoko**, Senior GeoModeler, Premier Oilfield Group and **Dallas Dunlap**, Research Scientist Associate, The University of Texas at Austin

The "big crew change" is upon us and the mid-career geoscientists are left to run the show but are they ready?

This special session will discuss the challenges mid-career geoscientists are currently facing in the oil and gas industry, and the lack of advanced training needed to ensure their continued development. Is there a transition phase, and are they equipped to take over the baton?

Mid-career geoscientists will share their experiences, lessons learned, and suggested solutions that can be implemented. They will touch on the downturn's effects and survival skills. They will also address their waning interest in AAPG and how it can be revived.



Members of AAPG's Executive Committee will be present to address pressing questions and discuss AAPG's view on the generation gap, declining involvement of the mid-career professional, and what can be done to jumpstart this generation's era.

#### Panelists:

- **Vanessa Kertznus**, Supervisor Gulf of Mexico West, Shell
- **Diana Duran**, Geological Advisor Permian Exploitation Group, Occidental Petroleum
- **Nysha Chaderton**, Technical Team Lead, ExxonMobil
- **Michael Pyrcz**, Associate Professor, The University of Texas at Austin
- **Nancy Slatter**, Managing Partner, Cabral Energy
- **Ika Novianti**, Director Geophysical Operations, ION Geophysical

### DEG Special Session on Environmental Impact and Sustainability



**Day:** Tuesday  
**Time:** 3:20 pm–5:05 pm  
**Location:** Room 213 A/B  
**Fee:** Included with registration  
**Co-Chairs:** M. Barrett and M. Jacobs  
**Speaker:** **Iain Stewart**, Communicating Contested Geoscience to the Public: "Matters of Fact" vs. "Matters of Concern"

Geological issues are increasingly intruding on the everyday lives of ordinary people. Whether it is the onshore extraction of oil and gas, the subsurface injection of waters for geothermal power, or the deep storage of waste products, communities across the world are being confronted with controversial geological interventions beneath their backyards. With a growing recognition that it is social rather than technical factors that stir societal unease and fuel community outrage, geoscientists need new communication strategies to engage dissonant publics, underpinned by a culture change from conveying "matters of fact" to brokering "matters of concern."

Our keynote speaker Iain Stewart is Professor of Geoscience Communication at the University of Plymouth, UK, and Director of its Sustainable Earth Institute. His academic interests are in applying Earth science to pressing societal concerns—climate change, geo-resources, geo-energy, disaster risk reduction—leading to his designation as UNESCO Chair in "Geoscience and Society." His expertise builds on a 15-year partnership with BBC Science, making popular television documentaries about planet Earth and tackling controversial geoscientific issues, such as climate change (Earth: The Climate Wars [2008]) and energy (Fracking—the New Energy Rush [2013] and Planet Oil [2015]). This "popular geoscience" has led to a research interest in how to effectively convey complex and contested Earth science to non-technical (public) audiences, forging novel research alliances with geographers, psychologists, sociologists, and anthropologists. Iain, appointed a Member of the Order of the British Empire (MBE) in 2013, has also been recognized for his services to the Earth sciences by The Royal Geographical Society, the Geological Society of London, the American Geophysical Union, the American Association of Petroleum Geologists, the

American Geosciences Institute, the Royal Society of Edinburgh, the European Federation of Geologists and the Geological Society of America.

This special session will be rounded out by three submitted talks on the intersection between petroleum geoscience and sustainability; a complete list can be found on page 74.

### Applied Ichnology Session: In Honor of Dr. S. George Pemberton Ph.D., P.Geol., F.R.S.C.



**Day:** Wednesday  
**Time:** 8:00 am–11:50 am  
**Location:** Room 217 A  
**Fee:** Included with registration  
**Co-Chairs:** Murray K. Gingras and James A. MacEachern

On 4 August 2018, the geoscience community lost a pioneer in the applications of ichnology — Dr. S. George Pemberton. It is fitting that this session, focused on the use of trace fossils in solving sedimentological, stratigraphic, and reservoir problems, be held in his esteemed honor. At a time when ichnology was regarded to be an esoteric discipline of paleontology to be pursued only in the absence of "real" fossils, George saw an untapped resource that could impart profound insights into paleoenvironmental interpretations of the rock record. It was his aim to make ichnology applicable and accessible to the broader sedimentological community. Importantly, owing to George's insight, ichnology became relevant to subsurface datasets. He set out to train sedimentologists to identify trace fossils and employ them as "biogenic sedimentary structures" in order to characterize and interpret facies and to recognize stratigraphic discontinuities. George later began to employ ichnological datasets to the characterization of reservoir porosity and permeability, which has since expanded into an exciting direction of research. It is a testament to his vision that today the integration of ichnology is considered an essential part of good facies analysis and sequence stratigraphic interpretation.

You are warmly invited to attend the Applied Ichnology session in honor of George Pemberton. Many of the presenters in the session are former graduate students or post-doctoral colleagues of George's. The presentations run the gamut of trace fossil applications to the facies analysis of continental to deep-water deposits, characterization of carbonate and mixed siliciclastic-carbonate successions and their reservoirs, the identification of stratigraphic discontinuities in a sequence stratigraphic framework, and neoichnology. George would have been humbled by such a session in his honour, because regardless of the widespread appreciation of his contributions, George always held point of pride in the successes and contributions of his graduate students, often quoting Henry Adams — *A teacher affects eternity; he can never tell where his influence stops.*

## Special Sessions on Salt Tectonics: A Community Tribute to Martin P. A. Jackson



This year's series of special sessions on salt tectonics ("Salt Involved Systems: Deposition to Diapirism to Dissolution") is dedicated to the memory of Martin P.A. Jackson. Martin passed away in May of 2016 after a lengthy battle with cancer. Up until shortly before his death Martin was still working away on the textbook "Salt

Tectonics: Principles and Practice." That textbook was published in 2017, and is widely, and deservedly, praised as the de facto textbook on salt tectonics.

Originally a "hard rock guy," Martin made the switch to work on one of the weakest rocks, rock salt, in the early 1980s shortly after arriving at the Bureau of Economic Geology (BEG) at The University of Texas at Austin. Martin's initial focus was on salt structures in the onshore Gulf of Mexico with other BEG researchers, but he became intrigued with the Great Kavir salt desert in central Iran after seeing an aerial photograph of clustered salt diapirs in this largely uninhabited region. This was followed by stints of centrifuge modeling in the Hans Ramberg Laboratory at Uppsala in Sweden, aerial photograph analyses, and field work with other colleagues in the Great Kavir. The end result of this research was the concept of a salt canopy, with the Great Kavir being a natural depth slice through

such a structure. This had a major impact on our understanding of the salt bodies in the offshore Gulf of Mexico. In 1988 Martin set up the Applied Geodynamics Laboratory (AGL) at the BEG with seed money to focus specifically on salt tectonics. Since 1989 the AGL has been continually funded by industry partners. As with his research on the Great Kavir, Martin enlisted the help of BEG colleagues to work with him on tackling salt-tectonic problems using a multidisciplinary approach that utilized field studies, seismic-based studies, and physical and numerical models.

Under Martin's direction many important concepts came out of this newly-formed research group, along with coworkers from both academia and industry. These include the concept of aforementioned salt canopies and how they are emplaced, the rise and fall of diapirs under extension, salt-related fault families, identification and mechanisms of salt welds and the list goes on. Martin's work on salt tectonics was not confined to the northern Gulf of Mexico and associated coastal zones, but also included field-based studies of salt tectonic systems in the Sverdrup Basin (Arctic Canada), Paradox Basin (Utah), Katangan Copperbelt (central Africa), and Haute Provence (France), as well as seismic-based studies in the western Mediterranean Sea, Bay of Biscay, Red Sea, offshore Angola, offshore Gabon, and onshore Brazil. He did not confine himself to terrestrial studies but also worked on salt-tectonic systems on Titan and Mars.

Martin's publications have been cited more than 6,500 times, but that's just metrics! What made Martin such a great scientist was his intellectual curiosity, his ability to work with people, his congeniality, and his patience. Salt tectonics can be completely baffling when one is introduced to it, especially multi-tiered systems such as those we see in the Gulf of Mexico. Martin enjoyed solving these geological puzzles, but also loved introducing people to salt-tectonic concepts and answering their questions, no matter how elementary those questions were. And then there was that glint in his eye and grin when he would quietly ask "Do you think this type of system can be modeled?" He knew it could, but he was being polite, and gently asking you if you would do it!

In February of 2018, some 60 of us gathered by the shores of the Dead Sea in Israel for the Geological Society of America Penrose Conference "Advances in salt tectonics: observations, applications, and perspectives" held in honor of Martin. It seems fitting now to share the celebration of his life and legacy with the broader AAPG community, considering the impact he made on salt tectonics and the recognition he received from the American Association of Petroleum Geologists in the form of four major awards.

These special sessions are the product of a collective effort by the salt tectonic community and we hope attendees of ACE 2019 have an opportunity to enjoy this celebration. Martin would have loved this!

## Re-think your Pyrolysis



Booth# 751

**Wildcat**  
technologies

HAWK Pyrolysis & TOC Instrument  
HAWK-PAM Petroleum Assessment  
Laboratory and Wellsite



## The AAPG Technical Program Formally Welcomes the Data Science Revolution—A Sign of the Times

Data Science in the Geosciences is an interdisciplinary field that uses scientific methods, processes, and algorithms to extract knowledge and insights from a variety of geological and engineering data sets. In the past few years, terms such as Machine Learning, Digitalization, and Artificial Intelligence have received a lot of attention in both large and small oil and gas companies. The ACE 2018 Machine Learning “Unsession” in Salt Lake City provided an initial platform to explore some of these ideas during the Annual Meeting. The ACE 2019 organizing committee has recognized the need to incorporate a new technical theme as part of the ACE program in San Antonio so that we can advance our discussion from conceptual to practical and add a strong hands-on component.

Theme 8: Deep Integration of Data and Disciplines will incorporate both oral and poster sessions that cater to all levels of knowledge and where applications and case studies will showcase a wide range of topics:

- **New Applications of Machine Learning to Subsurface Science: Monday morning oral session and Tuesday morning poster session; see page 48 & 70 for details**
- **Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data: Monday afternoon poster session and Tuesday morning oral session; see page 63 & 66 for details**
- **The Digital Transformation in the Geosciences: Tuesday afternoon poster session and Wednesday afternoon oral session; see page 75 & 87 for details**
- **Application of Machine Learning to Imaging: Wednesday morning poster session; see page 84 for details**

Theme 8 comes in a bundle with three exciting short courses that are designed to address the needs of different proficiency levels when it comes to this new chapter on digital transformation of the geosciences. These courses will cover the range from getting an introduction to the basic concepts to a hands-on programming experience using Python.

- Advanced Analytics – Machine Learning 101 (AAPG PROWESS)
- Improving Modeling and Predicting Reservoir Behavior
- Introduction to Data Science and Machine Learning in the Geosciences

We hope that these additions to the technical program will help us to start bridging the gap between the fancy graphics that advertise the advent of the digital era and our actual knowledge of the benefits and challenges of embracing a new “digital revolution.”

## NEW! Theme for 2019—Business and Finance: Where the Subsurface and the Commercial Combine to Create Value

We all know that any good upstream venture starts with a rich subsurface endowment where one understands the petroleum system and learns from one well to another. The most prolific of these ventures are described as Super Basins, while others are aspiring to the title, supported by relentless exploration efforts and technological innovation. As geologists or geophysicists our focus is often on unraveling the subsurface, and yet it is equally important to acknowledge that none of these ventures would exist if not for the support of a business-friendly environment, savvy investment decisions and availability of capital. Building on the ACE 2018 session “The Business of Oil and Gas: The Many Pathways to Success,” this year ACE 2019 has an entire theme focused on the business and financial aspects of our industry. Theme 10: Business and Finance intends to open channels of knowledge and collaboration among oil and gas professionals whether they use a rock hammer or Monte Carlo simulation to create value.

The “business and finance” theme has been arranged like a triptych representing one large image split into three. The first panel, or session, is discussing Opportunity Valuation, the second, Deals and Investment Decision, while the third homes in on Financing options.

The individual talks inside the three sessions have been arranged in such a way that more often than not a talk with an unconventional resource plays focus will be followed by a talk highlighting similar aspect in conventional onshore or offshore plays.

The talks cover topics including: Conventional exploration back in the black, the role of luck and serendipity in exploration, adventures in exploration deal-making, the development of an entrepreneur, and building a private equity company. These are just a few of the exciting topics which will be covered by seasoned explorers, entrepreneurs, and investors, demonstrating how combining outstanding subsurface analysis with commercial and economic savvy drives value creation.

This is the first year that we will have a dedicated theme to this ever-important topic, without which none of us would have, not will have, the exciting career of oil and gas explorers and producers. We definitely count on your support to carry this Theme into the future of the AAPG. Please make time to attend one or more of these sessions and continue your journey to be a multi-faceted value creator. We will see you there!

- **Opportunity Valuation:** Tuesday, 1:15 pm–5:05 pm, see page 72 for details
- **Deals and Investment Decisions:** Wednesday, 8:00 am–11:50 am, see page 78 for details
- **Financing:** Wednesday, 1:15 pm–5:05 pm, see page 84 for details



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# Networking & Events

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Luncheons

U-Pitch

Networking Opportunities

Students

Young Professionals

SEPM Annual Meeting

Exhibition Highlights

International Pavilion

Social Activity

Guest Program

Short Courses

Field Trips





## All-Convention Luncheon: Driving Sustainability Innovation with Open Data and Cloud Technology for Oil & Gas Applications



**Day:** Monday  
**Time:** 11:30 am–1:15 pm  
**Location:** Hemisfair Ballroom 2/3  
**Fee:** \$65  
**Speaker:** **Arno van den Haak**, Head, Worldwide Business Development Oil and Gas AWS Business Development

The traditional All-Convention Luncheon will take place on Monday at the Henry B. Gonzalez Convention Center.

Arno has more than 25 years of Oil and Gas experience. He began his career with Royal Dutch Shell in 1990 in the Netherlands after graduating from Eindhoven University of Technology with an M.Sc. in mechanical engineering. He has held various positions in the upstream production and operations space in the Netherlands before taking on a host of global assignments.

Arno has worked and lived on nearly every continent for Royal Dutch Shell (with the exception of Australia). His responsibilities have spanned technical, business, and managerial roles covering the upstream value chain from M&A, Exploration, Field Development, R&D, Wells, Major Projects, Deep-water, and Asset/Production Operations.

Arno has deepened his professional career the last 15 years in the COE for deep water in Houston as the technical authority with responsibility for well and production technology as well for project maturation and project execution with accountability for global projects. He has led international teams supporting deep-water project planning and execution in Brazil, Philippines, Nigeria, Malaysia, Angola, and Norway, both Shell operated as well as partner operated projects.

During this time he broadened his expertise further with assignments as the head for global R&D for deep-water structures with accountability for IP; as the global head of Deep-water Development Planning and as the project manager for the multi-billion dollar Deep-water (GoM) Mars B/Olympus TLP development.

Arno's final assignment in Shell was as the General Manager and Technical Authority for Wells in Brazil for the exploration and development activities in the Libra pre-salt joint venture. He left Shell in 2016 for a short lived opportunity with Philips Healthcare in the San Francisco Bay Area as the senior director for program management delivering Healthcare IT solutions before joining AWS.

His current role is the head of worldwide business development Oil and Gas for Amazon Web Services. He has more than 15 professional publications to his name and holds five patents.

*The AAPG Foundation's Teacher of the Year Award will be presented during the All-Convention Luncheon. The annual Teacher of the Year award of \$6,000 is given to a K-12 teacher for excellence in the teaching of natural resources in the earth sciences. The award includes \$3,000 to the recipient's school and \$3,000 for the recipient's personal use. In addition, the recipient receives an expense-paid trip to the Annual Convention and Exhibition (ACE) to receive the award. Nominations for the award are submitted by the AAPG sections and the winner is chosen by AAPG Foundation's Teacher of the Year Judges. Each section winner receives a \$500 cash award.*

## Division of Professional Affairs (DPA) Luncheon: Re-Inventing Yourself to Stay Relevant in an Ever-Changing Geoscience Technical Climate



**Day:** Tuesday  
**Time:** 11:30 am–1:00 pm  
**Location:** Room 006 B/C/D  
**Fee:** \$65  
**Speaker:** **Deborah K. Sacrey**, Owner, Auburn Energy

Deborah is a geologist/geophysicist with 42 years of oil and gas exploration experience in the Texas and Louisiana Gulf Coast and Mid-Continent areas of the US. She received her degree in Geology from the University of Oklahoma in 1976 and immediately started working for Gulf Oil in their Oklahoma City offices.

She started her own company, Auburn Energy, in 1990 and built her first geophysical workstation using Kingdom software in 1996. She helped SMT/IHS for 18 years in developing and testing the Kingdom Software. She specializes in 2-D and 3-D interpretation for clients in the US and internationally. For the past eight years she has been part of a team to study and bring the power of multi-attribute neural analysis of seismic data to the geoscience public, guided by Dr. Tom Smith, founder of SMT. She has become an expert in the use of Paradise software and has more than five discoveries for clients using multi-attribute neural analysis.

Deborah has been very active in the geological community. She is past national President of SIPES (Society of Independent Professional Earth Scientists), past President of the Division of Professional Affairs of AAPG (American Association of Petroleum Geologists), Past Treasurer of AAPG, and Past President of the Houston Geological Society. She is currently the President of the Gulf Coast Association of Geological Societies and is one of the GCAGS representatives on the AAPG Advisory Council. Deborah is also a DPA Certified Petroleum Geologist #4014 and DPA Certified Petroleum Geophysicist #2. She belongs to AAPG, SIPES, Houston Geological Society, South Texas Geological Society, and the Oklahoma City Geological Society (OCGS).

## SEPM Business Meeting Luncheon: Seismic Geomorphology—From the Earth's Ocean Depths to the Distal Planets, A Revolution in Reconstructing Landscape Form and Processes



**Day:** Tuesday  
**Time:** 12:00 pm–1:00 pm  
**Location:** Room 007 A/B/C  
**Fee:** \$55  
**Speaker:** **Dr. Lesli Wood**, Weimer Distinguished Chair and Professor in Sedimentary and Petroleum Geology, Department of Geology and Geological Engineering



Dr. Wood joined the faculty at Colorado School of Mines in 2015 as the Robert J. Weimer Distinguished Chair and Professor in Sedimentary and Petroleum Geology, where she is Professor and Director of the Sedimentary Analogs Database and Research Program (SAnd). Prior to joining CSM, Dr. Wood held positions at the University of Texas at Austin, Amoco Production Company and ARCO. Dr. Wood specializes in quantitative seismic geomorphology of clastic basins, tectonics and sedimentary system interactions, submarine and sub-lacustrine mass failures, petroleum geology, shales tectonics and geomorphology of Mars. She has served as SEPM Society for Sedimentary Geology National Secretary-Treasurer, the GCSSEPM President and is active in AAPG. Dr. Wood has published widely on the nature of modern and ancient deep- to shallow-water systems around the world and, she and her students have won numerous best paper and poster awards.

When we are asked to account revolutionary concepts from the past 50 years of sedimentology and stratigraphy we are often at a loss to move much beyond “the turbidite.” Some of us can list “sequence stratigraphy,” although Larry Sloss would argue that these ideas have been around but were simply popularized in the past 40 years. However, the development of Seismic Geomorphology and even further, our ability to quantify the earth's historical nature through Quantitative Seismic Geomorphology has truly been an eye-opening revolution in the way we see the historic Earth. The canon fire driving this revolution's forward advance is three-dimensional seismic data, and this advance ride upon the shoulders of the science of geomorphology. In recent years, the development of Digital Geomorphology, has further advanced our recognition of processes that have formed our sister planets. This talk will document, in amazing detail, the advances in planet surface process imagery through seismic geomorphologic and other technologies and detail the revolution that this ability to see into ancient landscapes, has spawned in our understanding of the earth's process history and the formation of our sister planets.

## Division of Environmental Geosciences (DEG) and Energy Minerals Division (EMD) Luncheon Global Energy Transition – An Uncertain Outcome Driven By Developments in Policy, Technology, and Behavior



**Day:** Wednesday  
**Time:** 11:30 am–1:00 pm  
**Location:** Room 006 B/C/D  
**Fee:** \$60  
**Speaker:** **Eirik Wærness**, Senior Vice President and Chief Economist, Equinor

Wærness, a macroeconomics, energy and commodity analyst, is also head of corporate strategy for mid and downstream markets.

Eirik has a broad level of past experiences holding several different leadership positions in government, academics, and private sector companies.

In addition to his current role at Equinor, Wærness leads Corporate Strategy, Corporate Planning and Analysis, Economic Analysis in Upstream Norway, and Energy Market Analysis.

Wærness serves as a non-executive member on the Board of Innovation Norway, the Board of Centre for Applied Research at the Norwegian School of Economics and is also a member of the Global Commission to examine Geopolitics of Energy Transformation which is set up by the International Renewable Energy Agency (IRENA).

### Past work experiences include:

- July 2016–February 2018: non-executive member of the Board of the Norwegian Financial Supervisory Authority (Finanstilsynet)
- 2014–2018: participated in different energy initiatives under World Economic Forum, including special advisor for work on energy architecture and member of the global council on the future of energy
- 2010–2013: member of the Executive Board of the Central Bank of Norway
- Additional: work experience from the Centre for Applied Research at the Norwegian School of Economics, Norwegian Ministry of Finance, Total E&P Norway, and Pöyry Management Consulting/Econ Centre for Economic Analysis





**Days:** Monday–Wednesday  
**Times:** 9:30 am–4:30 pm (Monday and Tuesday)  
 9:30 am–12:00 pm (Wednesday)  
**Location:** Exhibit Hall, Booth #1620

Looking to invest in a new product? Come visit the U-Pitch Theatre and listen to live pitches from innovative geoscientists with potential new products and services.

## U-Pitch Schedule

### Monday

9:30 am	Ted Kernan, WellLogData
10:00 am	Matt Czerniak, RhoVe T Temp-Based Pore Pressure Method
10:30 am	Don Herman, Cordax
11:00 am	Ray Donelick, BiMBy - Big Mass Battery
11:30 am	Sergio Tuberquia, equipcast inc.
12:00 pm	Parminder Kaur, Agile Data Decisions
12:30 pm	Hector Klie, DeepCast, LLC
1:00 pm	Harold Nikipelo, Lifeview Petroleum Inc. Enhanced Huff n Puff for Shales and Tight Formations
1:30 pm	Martin Perlmutter, SDAS: The Scalable Data Access System (Balex)
2:00 pm	Vitaly Meyer, PetroCubic: Job Sourcing and Pay-As-You-Use Software Licenses
2:30 pm	George Adcock, Resource Evaluations
3:00 pm	Miguel Bosch, Info Geosciences
3:30 pm	Konstandnos Zamfes, DMHE - Direct Methods of Hydrocarbon Exploration from Drilling Cuttings to Petrophysics and Frack Design and Interpretation.
4:00 pm	Sashi Gunturu, Petrabytes: Cloud-Based Analytics (AI, ML) and Tools
4:30 pm	Alec Walker, DelfinSia: Virtual Advisor Assembles Structured Databases From Unstructured Data.
5:00 pm	Alan Gilmer, Drilling Info Disruptive Technologies Investor and Commercialization Partner
5:15 pm	Presentations and Exhibit Hall Networking Reception

### Tuesday

9:30 am	Kristoffer Rimaila, Discontinuity Imaging using Machine Learning
10:00 am	David Hodgetts, VRGS - Virtual Reality Geological Studio
10:30 am	Robert Chelak, Biodentify
11:00 am	Jim Seweryn, Geological Wellsite and Remote Geo Steering Services
11:30 am	Bruce Black, Black Exploration LLC
12:00 pm	Carlos Moreno, Lumina Geophysical
12:30 pm	Jacobs Jin, Unconventional Shale EOR Technology
1:00 pm	Sunil Garg, DataVediK Machine Learning Solutions
1:30 pm	Rick Schrynemeeckers, AGI Leak Detection
2:00 pm	Claudia Ruiz-Graham, 3D Gaia: Immersive learning for Oil & Gas Industry
2:30 pm	Sarah Tamilarasan, SOTAOG – IIoT Platform / predictive analytics
3:00 pm	Martin Blouin, Geolearn
3:30 pm	Laura Dafov, Earth AI: Greenfield Mineralization locator
4:00 pm	Geoffrey Thyne, Esal: Wettability alteration
4:30 pm	Ana Krueger, Bluware Interactive Deep Learning Toolkit
5:00 pm	Alan Gilmer, Drilling Info Disruptive Technologies Investor and Commercialization Partner
5:15 pm	Presentations and Exhibit Hall Networking Reception

Speed meetings with investors and commercialization partners  
 Path Ahead Wrap-Up

### Wednesday

9:30 am	Speed meetings with investors and commercialization partners
11:30 am	Path Ahead Wrap-Up

For more information please visit: [ACE.AAPG.org](http://ACE.AAPG.org)

## THANK YOU SPONSORS



# NETWORKING OPPORTUNITIES

## AAPG HoD/PROWESS/DEG Networking Reception

**Day:** Saturday  
**Time:** 6:00 pm–7:30 pm  
**Location:** Grand Hyatt San Antonio, Lone Star Ballroom B/C  
**Fee:** By invitation only

The AAPG House of Delegates, the Professional Women in Earth Sciences, and the Division of Environmental Geosciences, are holding a special networking reception inspired by the women and men who have encouraged diversity in the geosciences.

## Icebreaker Reception

**Day:** Sunday  
**Time:** 5:00 pm–7:30 pm  
**Location:** Exhibit Hall 3/4A  
**Fee:** Included in registration

Following the Opening Session and Awards Ceremony 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.

## Refreshment Breaks

**Days:** Monday–Wednesday  
**Times:** 9:15 am–10:15 am (Monday, Tuesday, and Wednesday)  
2:30 pm–3:30 pm (Monday and Tuesday)  
**Location:** Exhibit Hall 3/4A  
**Fee:** Included in registration

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

**Days:** Monday–Tuesday  
**Time:** 5:00 pm–6:00 pm  
**Location:** Exhibit Hall 3/4A  
**Fee:** Included in registration

End each day 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.

## All-Alumni Reception

**Day:** Monday  
**Time:** 5:30 pm–7:30 pm  
**Location:** Grand Hyatt San Antonio, Lone Star Ballroom A  
**Fee:** Included with registration

### Participating colleges and universities:

- Binghamton University
- Missouri University of Science & Technology
- University of Arkansas
- University of Colorado
- University of Nevada
- University of Tulsa
- Utah State University

## Private Alumni Receptions

**Day:** Monday  
**Time:** 5:30 pm–7:30 pm  
**Location:** Grand Hyatt San Antonio second level unless otherwise noted  
**Fee:** Included in registration

- Colorado School of Mines: **Lone Star Ballroom C**
- Stanford School of Earth, Energy & Environmental Sciences: **Henry B. Gonzalez Convention Center, Park View Registration**
- Texas A&M University: **Henry B. Gonzalez Convention Center, Room 007 D**
- Texas Tech University-College of Arts and Sciences: **Bonham C, 3<sup>rd</sup> Floor**
- Trinity University: **Crockett A, 4<sup>th</sup> Floor**
- University of Iowa-Dept. of Earth and Environmental Sciences: **Henry B. Gonzalez Convention Center, Room 215**
- University of Kansas: **Henry B. Gonzalez Convention Center, Tower View Registration**
- University of Louisiana at Lafayette: **Henry B. Gonzalez Convention Center, O'Gorman Terrace**
- University of Michigan Earth and Environmental Sciences: **Bowie C**
- University of Texas at El Paso: **Bonham D, 3<sup>rd</sup> Floor**
- West Virginia University: **Henry B. Gonzalez Convention Center, Room 008 D**

## Private Alumni Functions

*All events held at the Grand Hyatt San Antonio unless otherwise noted.*

- **University of Oklahoma**  
Monday, 5:00 pm–7:00 pm | Grand Hyatt San Antonio, Bonham B, 3rd floor
- **University of Texas at Austin Jackson School of Geosciences**  
Monday, 6:00 pm–8:00 pm | Casa Rio | 430 E. Commerce St.
- **University of Illinois at Urbana-Champaign Department of Geology**  
Monday, 6:00 pm–8:00 pm | Yard House | 849 E. Commerce St., Suite #409
- **University of Nebraska-Lincoln**  
Tuesday, 5:30 pm–7:30 pm | Yard House | 849 E. Commerce St., Suite #409

## Career Center – Open to All Job Seekers

**Days and Times:** Monday, 8:30 am–5:00 pm  
Tuesday, 8:30 am–5:00 pm  
Wednesday, 8:30 am–2:00 pm  
**Location:** Room 006 A

The Career Center in San Antonio is an AAPG benefit for both employers and job seekers. The room is conveniently accessible to the public and meeting registration is not required to utilize this service.

The AAPG Career Center helps job seekers and employers connect in an environment specifically designed for petroleum geosciences professionals, saving them both time and effort.

**Job seekers** – Bring your résumé to post to the Career Center bulletin board at no charge. AAPG members also have the option of posting their résumés online.

**Employers** – Post jobs on our bulletin board and contact us to reserve a table to meet with job seekers or share promotional material about your company. Those with paid postings to our online Career Center have access to our online résumé database as well. Companies may reserve half-day, full-day, or all three days at no cost. Table must be staffed by your company representative.



## Students

### Student Résumé Review

Free résumé reviews will be conducted by industry recruiters and other professionals in the Exhibit Hall at the Association for Women Geoscientists (AWG) booth #1646 during ACE. Bring a paper copy of your résumé and sign up at the booth. If you are a young professional, you are asked to kindly make a \$20 donation or become a member of the AWG.

### Student and Faculty Lounge

**Days:** Monday–Wednesday  
**Time:** Exhibition Hours  
**Location:** Exhibit Hall, Booth #1449  
**Fee:** Included with registration

Sponsored by Chevron, complimentary refreshments are provided each day during exhibition hours. The lounge offers students a place to meet with fellow students and industry professionals to develop career contacts and lifelong friendships.

### Student Career Seminar

**Day:** Monday  
**Time:** 4:00 pm–6:00 pm  
**Location:** Grand Hyatt San Antonio, Lone Star Ballroom B  
**Fee:** \$10  
**Limit:** 96 Students

This workshop, hosted by the AAPG Student Expo Committee, is designed to assist students in their employment search endeavors within the petroleum and environmental industries. Students meet with professionals in round table discussion groups and learn about the day-to-day activities in these industries, and how to network and job search. After a brief introduction each table group will meet with industry managers and technical professionals who will facilitate discussions. Each will meet for 30-minute sessions and then rotate so that students have an opportunity to meet more professionals.

### AAPG/SEPM Student Reception

**Day:** Monday  
**Time:** 6:00 pm–8:00 pm  
**Location:** Grand Hyatt San Antonio, Lone Star Ballroom D/E/F  
**Fee:** Included with registration

All students and faculty attending the convention are invited to the AAPG/SEPM Student Reception. An introduction will be given by an ExxonMobil representative before the top three poster authors from the Shell-sponsored "Selected Academic Research Topics: Student Presentations" session receive awards. The Jim Hartman Service to Students Award will be presented to AAPG member(s) who contributed exceptional service to AAPG's student programs. The awards program continues with the presentation of the Schlumberger sponsored Outstanding Student Chapter awards, the Student Chapter YouTube Video competition, and recognition of the top Imperial Barrel Award teams. Enjoy hors d'oeuvres and refreshments while mingling with your peers after the presentation.

### AAPG/AAPG Foundation Imperial Barrel Award (IBA)

The IBA program is an annual prospective basin evaluation competition for geoscience graduate students from universities around the world. Teams winning IBA Region and Section competitions qualify for an opportunity to compete in the international finals during ACE. Sponsoring company representatives are allowed to watch the team presentation. For more information, please go to [iba.aapg.org/sponsorship](http://iba.aapg.org/sponsorship) or contact a Programs Coordinator at [iba@AAPG.org](mailto:iba@AAPG.org). The announcement of the winning teams for this year's IBA competition will be open for all to attend and will take place right before the start of the Opening Session and Awards Ceremony.

### Young Professionals Meet & Greet

**Day:** Sunday  
**Time:** 2:00 pm–3:00 pm  
**Location:** Tower View Registration  
**Fee:** Included with registration

Make plans to participate in the Young Professionals Meet & Greet event. This is a great networking opportunity that serves as a link to connect students and early career professionals with experienced attendees (mentors) at ACE. Attendees are paired up to learn and/or share industry knowledge as well as help guide newcomers through the convention experience. Professionals may be paired with one or more students/young professionals. These paired groups of students/young professionals will be shown around the exhibition hall during the Icebreaker reception and introduced to other AAPG members and colleagues. This program grows in popularity every year with positive reviews from all who participate. Please indicate your interest in this program during the registration process. The Young Professionals Special Interest Group oversees this event.

## SEPM President's Reception and Awards Ceremony



**Day:** Tuesday  
**Time:** 7:00 pm–9:00 pm  
**Location:** Marriott Riverwalk, Alamo Ballroom Salons D/E/F  
**Fee:** Included with registration

SEPM President Lynn Soreghan invites you to an evening of celebration to honor the 2019

award winners of SEPM – Society for Sedimentary Geology – and a great event to network and visit with colleagues old and new. The Twenhofel Medal, the highest award of SEPM given in recognition of a career of outstanding contributions to sedimentary geology, will be presented unfortunately posthumously to **S. George Pemberton**. SEPM Honorary Membership, given for both scientific contributions and service to the society, will be awarded to **David Budd**. The other science award recipients are **Charles Paull**, who will receive the Francis P. Shepard Medal in recognition of excellence in marine geology; **Pamela Hallock-Muller**, the Raymond C. Moore Medal in recognition of excellence in paleontology; **David Mohrig**, the Pettijohn Medal for excellence in sedimentology and stratigraphy; **Emmanuelle Ducassou**, the Wilson Award for excellence in sedimentary geology by an early career geoscientist, and SEPM's newest medal – the William Dickinson Medal for mid-career impact on sedimentary geology going to **Frank Corsetti**.

SEPM will also honor the recipients of the **Outstanding Paper Awards** for both of its journals: Journal of Sedimentary Research and PALAIOS. SEPM will also recognize the Outstanding Student Presentation Awards from the 2019 Annual Meeting, where cash prizes will be presented to the top student presenters from the **SEPM Student Awards Poster Session** scheduled for Monday in San Antonio, sponsored by Nexen. As always, SEPM will recognize the members of the 2019 Annual Meeting Organizing Committee, without whom the meeting could not take place, and SEPM Foundation Student Grant recipients. The reception will begin at 7:00 pm, with cocktails available at cash bars and substantial hors d'oeuvres. The awards ceremony will start at 7:30 pm.

## SEPM Research Group Meetings and Reception

**Day:** Monday  
**Time:** 7:00 pm–10:00 pm  
**Location:** Marriott Riverwalk, various rooms  
**Fee:** Included with registration

The Society for Sedimentary Geology (SEPM) would like to invite anyone who is interested in research group activities to attend the SEPM Research Group Meetings. Individual Research Groups will meet on Monday, 20 May. Specific locations will be announced at a later date. Check the SEPM website for updates at [www.sepm.org](http://www.sepm.org).



## SEPM Research Symposium: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record

**Day:** Tuesday  
**Time:** 8:00 am–11:50 am  
 1:15 pm–5:05 pm

**Location:** Hemisfair Ballroom 1

**Fee:** Included with registration

**Co-Chairs:** Jake Covault, Kiara Gomez, and Andrea Fildani

The world faces significant challenges in energy resources and sustainability, including securing petroleum resources, accessing clean water for human consumption, and mitigating rising temperatures during the 21st century. Living in a sustainable world requires societal and ecologic balance, one that demands no more of the environment than it can sustain over the long term. Geoscientists are uniquely qualified to address these challenges given their multi-disciplinary training in the study of Earth's systems and processes over a range of time scales. The 2019 Society for Sedimentary Geology (SEPM) Symposium is bringing together a diverse group of dynamic speakers to present forward-looking research addressing the role of sedimentary geoscience in challenges in energy resources and sustainability. The Symposium includes a traditional oral session of six Keynote Speakers representing the "pillars" of sedimentary geosciences and, for the first time at ACE, a Presenting Interactive Content (PICO) Session. The PICO Session will allow authors to share their work in a two-minute oral presentation, followed by presentations on interactive screens and/or traditional posters.

### SEPM Field Trips and Short Courses

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

### SEPM Best Student Poster Presentation Competition

SEPM will be recognizing the top student presentations from the SEPM Student Awards Poster Session (Monday). The top student presenters will be recognized with cash prizes at the SEPM President's Reception and Awards Ceremony on Tuesday evening. For additional information about SEPM Annual Meeting activities contact Howard Harper ([hharper@sepm.org](mailto:hharper@sepm.org)) at SEPM headquarters or visit [www.sepm.org](http://www.sepm.org).

### SEPM Business Meeting Luncheon: Seismic Geomorphology: From the Earth's Ocean Depths to the Distal Planets, A Revolution in Reconstructing Landscape Form and Processes

See page 26 for luncheon information.



# EXHIBITION HIGHLIGHTS



Looking to find the latest products/services, learn best practices, and discover new innovations to help deliver results for your business? Visit the exhibition to see all this:

- More than 500 Poster Presentations focusing on all aspects of geosciences
- Suppliers and vendors from more than 40 countries representing world-class Petroleum E&P Companies
- The latest innovations and emerging technologies
- Product and service demonstrations
- Networking opportunities with colleagues and industry professionals
- AAPG Center & Bookstore
- The International Pavilion exhibitors from around the globe
- U-Pitch Presentations

## AAPG Center and Bookstore

The AAPG Center will offer information and answers about your membership, events, publications, and more. You'll want to make time to visit and gather information about: EXPLORER, Datapages, Divisions, short courses, Distinguished Lecturer program, GTWs, field seminars, AAPG Foundation, global events, membership benefits, Interpretation, publications, sections/regions, student benefits, and much more. Stop by booth #1629 and learn more.

## Plinko Board

Win a prize playing the life-sized plinko board during regular exhibition hours at the AAPG Center.

## Photo Booth

Visit the AAPG Center to update your resume or LinkedIn profile with a free professional headshot or have your picture taken and see yourself on the cover of the EXPLORER at the photo booth. The photo booth will be open each day during exhibition hours.

## Author Signing

Atlas of Natural and Induced Fractures in Core

**Day:** Monday

**Time:** 2:30 pm–3:30 pm

**Location:** Exhibit Hall, AAPG Center #1629

**Authors:** Scott Cooper and John Lorenz



## Networking in the Exhibition:

### Daily Refreshments

Monday ..... 9:15 am–10:15 am & 2:30 pm–3:30 pm

Tuesday ..... 9:15 am–10:15 am & 2:30 pm–3:30 pm

Wednesday ..... 9:15 am–10:15 am

### End-of-Day Receptions

Monday ..... 5:00 pm–6:00 pm

Tuesday ..... 5:00 pm–6:00 pm

## Exhibition Hours:

Sunday ..... 5:00 pm–7:30 pm (Icebreaker)

Monday ..... 9:00 am–6:00 pm

Tuesday ..... 9:00 am–6:00 pm

Wednesday ..... 9:00 am–2:00 pm

## AAPG INTERNATIONAL PAVILION

[www.internationalpavilion.com](http://www.internationalpavilion.com)

Looking to explore...plan now to step into the world of exploration opportunities by visiting the AAPG International Pavilion (IP).

The IP provides an opportunity to bring together countries with proven and potential oil and gas resources and opportunities with oil and gas companies looking to explore and produce them.

The IP at ACE enables attendees, investors, and explorers to review global opportunities, learn about the latest discoveries and bid round offerings, and to network directly with representatives from the countries who know the geology and opportunities in detail. Attendees can expect to come away with heightened insight into current and future global activity and the inside track on where the best opportunities can be found.

In addition to the traditional exhibition of countries the IP will be hosting a dedicated IP THEATRE (#133) within the IP area on the AAPG ACE Exhibition floor. The IP THEATRE will commence on Monday afternoon at 1:30 pm

- **Opening Speech and Welcome:** Denise Cox, AAPG President
- **Keynote – Wood Mackenzie:** Exploration's Return to Profitability – Julie Wilson, Research Director, Global Exploration

Country presentations will round out the afternoon on Monday and continue through Tuesday and Wednesday morning. An exact schedule of presentations will be available at the IP THEATRE. Here are just some of the presentations that are scheduled.

### Licensing Rounds

- Barbados
- Equatorial Guinea
- Faroe Islands
- Greenland
- Israel
- Lebanon
- Nalcor
- Newfoundland & Labrador
- Philippines
- Poland
- Sierra Leone
- United Kingdom

### Open Acreage and Current Activity

- Argentina
- Colombia
- Falkland Islands
- Ireland
- Jamaica
- Morocco
- Tunisia
- Uruguay

### Exploration Opportunities

- Envoi
- Ghana
- Liberia
- Mexico
- Mozambique
- Namibia
- Netherlands
- Peru
- Senegal
- Seychelles
- United Kingdom

### New Data Availability

- Geopartners
- Nova Scotia





## SOCIAL ACTIVITY

### San Antonio Charreada – Hosted by the South Texas Geological Society

Sponsored by: Ageron Energy LLC

**Day:** Tuesday  
**Time:** 6:00 pm–9:30 pm  
**Fee:** \$50  
**Limit:** 400 people  
**Includes:** Transportation, music, dinner, drinks, and entertainment

Before barrels of oil equivalent, South Texas energy and dreams were measured in horses and cattle. Return with us now to those thrilling days of yesteryear to a private event where the Mexican adoration of the horse shines through. Charras in their finest pastel folklorico dresses breathtakingly weave their side-saddled steeds through precision riding maneuvers, re-enacting Mexican Revolution skirmishes, but as delicate as a lace fan. Charros apply nuanced skills, not brute force, to tame and work their animals.

Chartered buses will carry you rapidamente from the Grand Hyatt San Antonio in 10 minutes to the San Antonio Charro Association arena where you will be greeted by Los Soberanos mariachi band, recently returned from a command performance at the Czar's Winter Palace, while you proceed to enjoy classic Mexican fajitas with side-dishes and practically unlimited beverages, including up to three cervezas or sangrias! Plan to arrive on time at 6:00 pm to witness the opening Charreada promenade reminiscent of Roman legions paying tribute, not to Caesar, but to you.

If you need to break from the action, buses will be shuttling between the arena and the Grand Hyatt San Antonio until we bid you Adios at 9:30 pm. The first bus leaves from the Grand Hyatt San Antonio at 5:45 pm and the last bus leaves the arena at 10:00 pm.

This is a lifetime opportunity for you to enjoy a celebration of skills and life that the San Antonio Charro Association has practiced for 72 years in this arena. Do not miss it!



## Join us in Mexico City September 2020



Plan now to attend **Energy Opportunities 2020**, an executive level conference highlighting activity and investment opportunities in the Latin America and Caribbean region's traditional and alternative energy sectors.

**Engage with decision makers** from the government, energy, legal, finance, technology, consulting, and services sectors for two powerful days designed to provide both the information and the connections you need to meet your business objectives.

Attend plenaries featuring **world-renowned speakers**, prospect forums featuring investment opportunities, and focused workshops covering the latest advances in finance, technology, and science.

Meet with current and future partners at the business-to-business session and **explore new opportunities** at the exhibition and networking sessions.

For more information and sponsorship options, please visit:

➔ **EnergyOpportunities.info**

# GUEST PROGRAM AND TOURS

Registered guests of AAPG members or non-members are invited to enjoy the comforts of the Guest Hospitality Suite in the Grand Hyatt San Antonio connected to the Henry B. Gonzalez Convention Center. This is the perfect place to visit with friends, relax, and enjoy refreshments.

Volunteers from the Guest Program Committee will be on hand to answer your questions about the tours and about the San Antonio area. Let us help you get acquainted with our city and the surrounding area.

Whatever your interest, San Antonio has something for everyone! Don't forget to come by the Guest Hospitality Suite.

## Guest Hospitality Suite Hours:

**Location:** Grand Hyatt San Antonio, Bowie B

Monday . . . . . 8:00 am–3:00 pm

Tuesday . . . . . 8:00 am–3:00 pm

Wednesday . . . . . 8:00 am–12:00 pm

All Guest Tours will depart from the lobby at the Grand Hyatt San Antonio. Participants should plan to arrive in the lobby 20 minutes prior to the published departure times and check in with the Guest Tour Host. Participants need to wear comfortable walking shoes and appropriate clothing for both indoor and outdoor conditions.

## Grand Historic City Tour **SOLD OUT**

**Day:** Monday

**Time:** 10:00 am–2:30 pm

**Fee:** \$85

**Includes:** Transportation, tour guide, museum entry, and lunch

Experience 300 years of history, architecture, and the confluence of cultures! Explore the Briscoe Western Art Museum to learn about vaqueros, cowboys, and the cattle drives of South Texas. Have lunch at Guenther House; then explore this Art Nouveau and Victorian style house and museum of the founder of Pioneer Flower Mills. Learn about Southtown, Blue Star Arts Complex, and the King William Districts.

## Texas Hill Country Tour **SOLD OUT**

**Day:** Monday

**Time:** 10:00 am–5:00 pm

**Fee:** \$114

**Includes:** Transportation, tour guide, and wine tasting fees at Grape Creek Vineyard.

*(wine tasting at Wedding Oak Winery and lunch in Fredericksburg not included)*

Experience the famous Texas Hill Country with this exciting full day tour. Try some award-winning wine at Grape Creek Vineyard. Stroll the historic German town of Fredericksburg with time on your own for lunch and shopping. Explore WildSeed Farms—the largest working wild flower farm in the nation—where you will have time on your own to shop the nursery and boutique, enjoy some peach ice cream at the Brewbonnet Biergarten, or try some wine at Wedding Oak Winery. Must be at least 21 years old.

## Continuous innovation, from pore to pipeline.

In 1927, Conrad and Marcel Schlumberger used their new electrical well logging technique to identify formations in the Pechelbronn oil field in the Alsace region of France—a first in the oil and gas industry. Today, Schlumberger continues to innovate by introducing pioneering technologies delivered with technical expertise gained from decades of experience. From reservoir characterization and drilling to production and processing, we integrate multidisciplinary products and services to optimize hydrocarbon recovery and maximize production for our customers.

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**Schlumberger**





### Historic Pearl Brewery Tour **SOLD OUT**

**Day:** Tuesday  
**Time:** 9:00 am–2:00 pm  
**Fee:** \$60  
**Includes:** Transportation, tour guide, and private river barge ticket. *(lunch not included)*

Take a private and narrated motor coach from downtown San Antonio to the Historic Pearl Brewery. The Pearl, located north of downtown San Antonio, provides a unique experience as a top culinary and cultural destination; it features retail, dining, and picturesque green spaces, paseos, a riverside amphitheater, and the third campus of The Culinary Institute of America.

### Gruene Historic District Tour **SOLD OUT**

**Day:** Tuesday  
**Time:** 9:00 am–3:00 pm  
**Fee:** \$60  
**Includes:** Transportation and tour guide *(lunch not included)*

Explore the Gruene Historic District in New Braunfels, Texas. Shop at the many antique, artisan, and specialty shops. Have lunch at one of the many river front restaurants. Check out Gruene Hall—the oldest dance hall in Texas. Take a walking tour, on your own, using the historic markers throughout this historic German town.

### San Antonio Shoe Factory Tour **SOLD OUT**

**Day:** Wednesday  
**Time:** 8:30 am–12:00 pm  
**Fee:** \$45  
**Includes:** Transportation and tour guide *(breakfast not included)*

See first-hand how SAS shoes are made during this factory tour! Experience the journey each pair of shoes takes with a tour of one of the few remaining shoe factories in the U.S. Each pair of shoes can go through up to 100 different steps, performed by approximately 80 different pairs of skilled hands, before they are declared SAS quality. After the factory tour, you will have time to shop the general store or purchase your own pair of SAS shoes. **No sandals, guests must wear closed toe shoes.**

### Spanish Missions Tour **SOLD OUT**

**Day:** Wednesday  
**Time:** 9:00 am–1:00 pm  
**Fee:** \$55  
**Includes:** Transportation and tour guide *(lunch not included)*

Find out what makes San Antonio an important part of American history while taking in San Antonio's Spanish influences! See the original frescos at Mission Concepcion. Experience mission life at Mission San Jose, the Queen of the Missions. Learn about the hunters and gathers at Mission San Juan. Explore the grounds at Mission Espada. Follow the San Antonio River and discover the UNESCO World Heritage Site—the San Antonio Missions.



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# SHORT COURSES (Download the AAPG Events App for the latest updates)

PRE-CONVENTION	TITLE	INSTRUCTOR(S)
1	Deep-Water Depositional Environments: Processes and Products (SEPM) <b>SOLD OUT</b>	Zoltan Sylvester, David Mohrig, Wonsuck Kim (University of Texas, Austin, Texas), Julian Clark (Equinor, Houston, Texas)
2	Advances in Representing Geologic Heterogeneity in Reservoir Models (SEPM) <b>SOLD OUT</b>	Jake Covault, Michael Pyrcz (UT-Austin, Austin, Texas) and Richard Sech (Anadarko, The Woodland, Texas)
3	Petrography of Mudrock Hydrocarbon Reservoirs (RMAG)	Lyn Canter (Luween LLC, Denver, Colorado), David Hull (Devon Energy, Oklahoma City, Oklahoma), Joe Macquaker (ExxonMobil, Houston, Texas), Kitty Milliken (BEG, Austin, Texas) and Terri Olson (Digital Rock Petrophysics, Denver, Colorado)
4	Advanced Analytics - Machine Learning 101 (PROWESS)	Sarah Coffman (ConocoPhillips, Houston, Texas)
6	Sequence Stratigraphy for Graduate Students (SEPM) <b>SOLD OUT</b>	Morgan Sullivan (Chevron, Houston, Texas) and Art Donovan (Texas A&M, Houston, Texas)
7	Essentials of Unconventional Play Based Exploration (EMD)	P. Jeffrey Brown (Rose and Associates, Santa Barbara, California) and Creties Jenkins (Rose and Associates, Santa Barbara, California)
11	Implement an End-to-End Upstream E&P Workflow Solution Using Machine Learning / Beginner's Guide to Unstructured Data and Machine Learning in Oil and Gas (AAPG)	Sunil Garg (dataVedik, Houston, Texas) and Alec Walker (DelfinSia, Houston, Texas)
13	Essentials for Understanding Unconventional Mudrock Plays (SEPM) <b>SOLD OUT</b>	Robert Loucks, Stephen Ruppel (University of Texas, Austin, Texas), and others
POST-CONVENTION	TITLE	INSTRUCTOR(S)
15	Introduction to Data Science and Machine Learning in the Geosciences (SEPM) <b>SOLD OUT</b>	Didi Ooi (Anadarko, Houston, Texas) and Michael Pyrcz (University of Texas, Austin, Texas)

## Cancelled:

- 5. Integrated Geologic, Seismic and Reservoir Engineering Characterization for Dual-Media Simulation in Conventional and Unconventional Fractured Reservoirs (AAPG/PSGD)
- 8. Exploration Seismology from Regional Analysis to Initial Field Development using a Case Study (AAPG)
- 9. Deltas: Processes, Stratigraphy, and Reservoirs – Core Workshop (SEPM)
- 10. Applications of Organic Petrography in the North American Shale Petroleum Systems (EMD)
- 12. Integrated Approaches in Provenance – Tools and Recent Advancements Applied to Exploration (SEPM)
- 14. Advanced Geochemical Methods (SEPM)



DATE(S) / TIME(S)	FEES	LOCATION
Friday-Saturday, 17-18 May 8:00 am-5:00 pm	Professionals \$640 Students \$150	University of Texas - J.J. Pickle Campus, North Austin, Texas
Saturday, 18 May 8:00 am-5:00 pm	Professionals \$400 Students \$100	San Antonio Marriott Riverwalk, Alamo Ballroom Salon B
Saturday, 18 May 8:00 am-5:00 pm	Professionals \$375 Students \$200	Henry B. Gonzalez Convention Center Room 006 C
Saturday, 18 May 1:00 pm-5:00 pm	Professionals \$100 Students \$50	Grand Hyatt San Antonio, Room Bowie B
Saturday-Sunday, 18-19 May 8:00 am-5:00 pm	Students Only \$50	San Antonio Marriott Riverwalk, Alamo Ballroom Salon A
Saturday-Sunday, 18-19 May 8:00 am-5:00 pm	Professionals \$995 Students \$200	Henry B. Gonzalez Convention Center, Room 006 D
Sunday, 19 May 8:00 am-5:00 pm	Professionals \$395 Students \$150	Henry B. Gonzalez Convention Center, Room 006 C
Sunday, 19 May 8:00 am-5:00 pm	Professionals \$250 Students \$100	San Antonio Marriott Riverwalk, Alamo Ballroom Salon F
DATE(S) / TIME(S)	FEES	LOCATION
Thursday, 23 May 8:00 am-5:00 pm	Professionals \$400 Students \$100	San Antonio Marriott Riverwalk, Bowie

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# FIELD TRIPS

PRE-CONVENTION	TITLE	LEADER(S)	DATE(S) / TIME(S)
1	Slope and Deep-Water Mixed Carbonate-Siliciclastic Architectural Elements of the Delaware Basin: A Core and Field Workshop (SEPM) <b>SOLD OUT</b>	Xavier Janson (Bureau of Economic Geology, The University of Texas at Austin); Greg Hurd (Chevron); Zane Jobe (Colorado School of Mines CoRE)	Wednesday, 15 May, 9:00 am–Saturday, 18 May, 7:00 pm *Trip starts in Midland, Texas and ends in El Paso, Texas
3	Mechanical Stratigraphy, Faulting, and Fracturing in Carbonates and Shale (AAPG/PSGD)	David A. Ferrill and Kevin Smart (Southwest Research Institute)	Thursday, 16 May, 8:00 am–Friday, 17 May 7:00 pm
4	Fluvial and Coastal Clastic Sedimentology and Ichnology in Modern Environments and Core (SEPM) <b>SOLD OUT</b>	Anton Wroblewski (ConocoPhillips and University of Utah); Stephen Hasiotis (University of Kansas); Peter Flaig (Bureau of Economic Geology, The University of Texas at Austin)	Friday, 17 May, 7:30 am–Saturday, 18 May, 6:30 pm
5	Late Cretaceous Submarine Volcanism in Central and South Texas: Loci of Carbonate Sedimentation and Hydrocarbon Accumulation (AGS/STGS) <b>SOLD OUT</b>	S. Christopher Caran (Christopher Caran Consulting); Thomas E. Ewing (Frontera Exploration)	Friday, 17 May, 8:00 am–Saturday, 18 May, 5:00 pm
6	Oceanic Anoxic Events 1A&B in Central Texas (SEPM) <b>SOLD OUT</b>	Charles Kerans and Esben Pedersen (University of Texas); Rob Forkner (Equinor); Toti Larson and Xun Sun (Bureau of Economic Geology, The University of Texas at Austin)	Saturday, 18 May, 8:00 am–7:00 pm *Trip starts and ends in Austin, Texas
7	Effects of the K-Pg Impact in Outcrops and Cores: Brazil River and IODP Core Repository (SEPM) <b>SOLD OUT</b>	Sean Gulick, Chris Lowery, and Daniel Stockli (The University of Texas at Austin); Richard Denne (Texas)	Saturday, 18 May, 8:00 am–7:00 pm
8	Cave and Karst Geology at The Cave Without a Name (AAPG Young Professionals) <b>SOLD OUT</b>	Tyler Quade (Windridge Oil & Gas); Lauren Redmond (EOG); Ali Sloan (Parsley Energy); and John Casiano (Abraxas Petroleum Corporation)	Saturday, 18 May, 10:00 am–5:00 pm
9	Following the Water: Recharge, Springs, and Historic Missions (STGS/AAPG) <b>SOLD OUT</b>	Thomas E. Ewing (Frontera Exploration)	Sunday, 19 May, 8:00 am–4:00 pm
POST-CONVENTION	TITLE	LEADER(S)	DATE(S) / TIME(S)
10	Geologic Controls on Production From the Upper Cretaceous Eagle Ford and Austin Chalk Formations, South Texas (SEPM) <b>SOLD OUT</b>	Bruce Hart (Equinor); Alexis Godet (The University of Texas at San Antonio); Mike Pope (Texas A&M)	Thursday, 23 May, 8:00 am–Friday, 24 May, 7:00 p.m
11	Geology, Frontier History, and Oenology of the Texas Hill Country (AGS/STGS)	Peter R. Rose (Rose & Associates); Thomas E. Ewing (Frontera Exploration)	Thursday, 23 May, 8:00 am–6:00 pm
13	Exploring the Origins of the Austin Chalk Cavernous Porosity: Implications for 3-D Reservoir Architecture Within Naturally Fractured Carbonate Reservoir Systems (STGS/AAPG)	Dr. George Veni (National Cave & Karst Research Institute); John Cooper (Britanco, LLC)	Thursday, 23 May, 8:30 am–6:00 pm

## Cancelled:

- 2. Carboniferous Strata and Reservoir Analogs of the Sacramento Mountains, New Mexico (SEPM)
- 12. Modern Texas Coastal Geology as Reservoir Analogs (SEPM)



FEES
Professionals \$1200 / Students \$500 (limited) (single occupancy)
Professionals \$400 / Students \$100 (limited) *price does not include hotel accommodations
Professionals \$645 / Students \$365 (limited) (single occupancy)
Professionals / Students \$300
Professionals \$315 / Students \$100 (limited)
Professionals \$215 / Students \$100 (limited)
Young Professionals \$50
Professionals \$150 / Students \$50 (limited)



FEES
Professionals \$715 / Students \$350 (limited) (single occupancy)
Professionals and Students \$280
Professionals \$140 / Students \$50 (limited)









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## Oral Sessions at a Glance

## Technical Program Sunday

## Technical Program Tuesday

## Presenter Cross Reference



# ACE 2019 TECHNICAL PROGRAM THEME CHAIRS

## Theme 1: Siliciclastic Systems

Vanessa Kertzus, Shell  
Ian Kane, Manchester  
Theresa Schwartz, CSM



## Theme 2: Carbonates, Evaporites, and Mixed Systems

Laura Zahm, Equinor  
Kristin Bergman, MIT  
Fiona Whitaker, University of Bristol



## Theme 3: Geochemistry, Basin Modeling, and Petroleum Systems

Norelis Rodriguez, Chevron  
Eric Michael, CoP  
Catherine Donohue, Marathon



## Theme 4: Structure, Tectonics, and Geomechanics

Caleb Pollock, Pioneer  
Ronald McGinnis, SwRI  
Jim Granath, Consulting Structural Geologist



## Theme 5: Unconventional Resources

Harris Cander, Marathon  
Pat Welch, Concho  
Ned Frost, Matadores Resources



## Theme 6: Energy Sustainability and the Environment

Hal Macartney, Pioneer  
Vanessa Nuñez, BEG  
Mike Jacobs, Pioneer  
Jens-Eric Lund Snee, Stanford University  
Mary Barrett, Centenary



## Theme 7: Geophysics – What's New and Innovative?

Nicola Tisato, GGS/UT  
Reinaldo Michelena, ireservoir  
Tiziana Vanorio, Stanford University



## Theme 8: Deep Integration of Data and Disciplines

Sebastian Bayer, BHP  
Brendon Hall, Enthought  
Ashley Russell, Equinor



### Theme 9: Exploration Frontiers, Energy Minerals, and Planetary Geology

Bill Ambrose, BEG

Harry Mueller

Doug Cook, Pikes Peak Community College



### Theme 13: AAPG and SEPM Student Research

Alex Janevski, Shell

Beth Strickland, Shell

Howard Harper, SEPM

Rick Sarg, School of Mines



### Theme 10: Business, Finance, and Regulatory Framework

Daniel Zweidler, Consultant

Humberto Manueco, Shell

Lee Billingsley, WindRidgeGeo

Allison Sandlin, Equinor



### Theme 11: SEPM Research Symposium – A Look Into the Future of Energy and Sustainability Using the Sedimentary Record

Andrea Fildani, Equinor

Jake Covault, BEG

Kiara Gomez, University of Texas at Austin



### Theme 12: History of Petroleum Geology

Matt Silverman, Bayless

Amanda Haddad, BHP Billiton



# ORAL AND POSTER SESSIONS AT A GLANCE

## ORAL SESSIONS AT A GLANCE

	Hemisfair Ballroom 1	Room 217 B/C	Room 217 D	Room 214 B/C	Room 217 A
Sunday 11:35 am–2:40 pm			Step Changes in Petroleum Geology		
Monday 8:00 am–11:50 am	Theme 2: Characterizing Fracture and Karst Porosity and Permeability	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks	Theme 8: New Applications of Machine Learning to Subsurface Science	Theme 4: Global Studies of Extensional and Passive Margins	Theme 1: Deep-Water Systems Architecture: From Controls to Characterization
Monday 1:15 pm–5:05 pm	Discovery Thinking	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I	Theme 1: Deep-Water Process Stratigraphy
Monday 5:10 pm–6:00 pm	Halbouty Lecture				
Tuesday 8:00 am–11:50 am	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record	Theme 5: Permian Basin Unconventionals	Theme 2: Depositional Models for Carbonate and Evaporite Systems	Theme 4: Compressional Environments: Trap to Basin	Theme 1: Source to Sink
Tuesday 1:15 pm–5:05 pm	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record (PICO Session)	Theme 5: Advances in Unconventional Characterization II: From Kerogen to Produced Petroleum	Theme 2: Microbial Carbonates – Modern and Ancient Analogs for Pre-salt Deposits	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II	Theme 10: Opportunity Valuation
Wednesday 8:00 am–11:50 am	Theme 10: Deals and Investment Decisions	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?	Theme 4: Modeling of Structural and Geomechanical Processes	Theme 1: Applied Ichnology: In Honor of George Pemberton
Wednesday 1:15 pm–5:05 pm	Theme 10: Financing	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs	Theme 9: New Global Exploration and Play Concepts

## POSTER SESSIONS AT A GLANCE

	Exhibit Hall				
Monday 8:30 am–12:00 pm	AAPG Student Poster Session I	SEPM Student Poster Session I	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I	Theme 2: Carbonate Mixed Systems	Theme 6: Evolution of Organic and Inorganic Matrix
Monday 1:30 pm–5:00 pm	Theme 5: Analytical Techniques for Unconventional Reservoirs	Theme 9: New Global Exploration Play Concepts	Theme 7: Integration of Geology and Geophysics	Theme 1: Circum-Gulf of Mexico Clastic Systems	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Tuesday 8:30 am–12:00 pm	Theme 2: Carbonates – Fractures and Karst	Theme 2: Carbonates – Depositional Models I	Theme 3: Biomarker Applications in Petroleum Systems Analysis	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Tuesday 1:30 pm–5:00 pm	Theme 7: Geophysics: Beyond Seismic Methods	Theme 2: Carbonates – Permian Basin	Theme 2: Carbonates – Depositional Models II	Theme 8: The Digital Transformation in the Geosciences	Theme 4: Structure and Geomechanics of Unconventional Plays
Wednesday 8:30 am–12:00 pm	Theme 6: Sustainability and Carbon	Theme 5: International Unconventional Plays	Theme 3: Hydrocarbon Migration and Charge Risk Assessment	Theme 1: New Advances in Mature Basins	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times



Room 214 D	Room 214 A	Room 213 A/B
Theme 3: Geochemistry Applications in Petroleum Systems Characterization	Theme 9: Planetary Geology and Energy Frontiers	Theme 7: Integration of Geology and Geophysics
Theme 2: Linked Systems of the Cretaceous Gulf of Mexico	Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis	Theme 6: Induced Seismicity and Water Management
Theme 3: Hydrocarbon Migration and Charge Risk Assessment	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data	Theme 6: Sustainability and Carbon
Theme 3: Integrated Workflows in Petroleum Systems Modeling	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
		DEG Special Session: Environmental Impact and Sustainability
Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction	Theme 7: Remote Sensing, Monitoring, and Regional Studies
Theme 8: The Digital Transformation in the Geosciences	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures

Theme 1: Interaction Between Sedimentation and Tectonics I and II	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis	Theme 4: Characterizing Brittle Deformation and its Impact on Reservoirs	Theme 5: Permian Basin Unconventionals	Theme 6: Carbon Storage
Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture	Theme 3: Source Rock Depositional Environments	Theme 4: Global Perspectives on Extensional Deformation	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data	Theme 1: Reserve Quality and Rock Property
Theme 1: Deep-water Sedimentology	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits	Theme 6: Induced Seismicity and Water Management	Theme 5: Unconventional Reservoir Technology	Theme 8: New Applications of Machine Learning to Subsurface Science
Theme 4: Modeling of Structural and Geomechanical Processes	Theme 1: Source to Sink I	Theme 1: Source to Sink II	Theme 5: Unconventional Reservoir Characterization I	Theme 5: Unconventional Reservoir Characterization II
Theme 4: Global Perspectives on Compressional Deformation	AAPG Student Poster Session II	SEPM Student Poster Session II	Theme 8: Application of Machine Learning to Imaging	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent

## Judges Needed!

Judges provide a valuable service to the convention and help us honor our presenters with various Best Poster Presentation and Best Oral Presentation awards. Additionally, these awards help future conferences and local societies discover and identify speakers and content that they would like to include in their events or publications. As a judge, you will help ideas and information from ACE 2019 flow out of the Texas energy sector.

Any geologist attending ACE can serve as a judge – no special qualifications are required. Visit the ACE Service Center in Room 212 Henry B. Gonzalez Convention Center to sign up!

## SUNDAY AFTERNOON ORAL SESSION

### Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs

Room 217 D

**Co-Chairs:** *M. R. Silverman and A. G. Haddad*

- 11:35**    **Introductory Remarks**
- 11:40**    **Major Trends Within American Association of Petroleum Geologists at Its Centennial:** D. A. Carlson
- 12:00**    **Shales That Burn:** R. P. Sorenson
- 12:20**    **Historical Transformation of the Petroleum System Methodology to Computerized Petroleum System Models and Linked Technologies:** K. E. Peters, L. B. Magoon, B. Wygrala
- 12:40**    **A History of Paleogeography in Exploration: Lessons From the Past for the Next Generation of Explorers:** P. J. Markwick
- 1:00**    **Petroleum Exploration Onshore Svalbard: A Historical Perspective on the Start of the Norwegian Oil Adventure:** K. Senger, P. Brugmans, S. Grundvåg, M. Jochmann, A. Nøttvedt, S. Olaussen, A. Skotte, A. Smyrak-Sikora
- 1:20**    **The Contribution of Geologists Arville Irving Levorsen and Walter Karl Link to the Development of Brazilian Oil Industry:** D. Peyerl, E. M. Moretto, S. F. Figueirôa
- 1:40**    **History of the Alberta Geological Survey and Its Contribution to the Petroleum Industry in Canada:** F. J. Hein, A. Beaton
- 2:00**    **The Astonishing Oil History of the Gaspé Basin and Its Long March Towards a First Commercial Success:** J. Marcil
- 2:20**    **History, Geology, and Politics of Livermore Oil:** A. K. Burnham



## MONDAY MORNING ORAL SESSIONS

### Theme 2: Characterizing Fracture and Karst Porosity and Permeability

Hemisfair Ballroom I

Co-Chairs: P. J. Moore and F. Fernandez-Ibanez

- 8:00**     **Introductory Remarks**
- 8:05**     **Utilizing Well Bore Data to Characterize Non-Matrix Pore Types in Carbonates:** P. J. Moore, F. Fernandez-Ibanez, H. Al-Qassab, T. Buono, E. Bunge, S. M. Fullmer, S. L. LeBlanc, A. Nolting, J. Gulley
- 8:25**     **Mapping and Distribution of Karst Features on San Salvador Island, Bahamas Using a Morphometric Pattern Recognition Technique to Identify Depressions:** E. M. Bunge, T. Buono, J. Gulley, K. Galvez, S. L. LeBlanc, F. Fernandez-Ibanez, S. M. Fullmer, A. Nolting, P. J. Moore, L. Nachtegaele
- 8:45**     **The Preservation of Near-Surface, Meteoric Caves at Depth: Observations From Subsurface Data and Numerical Modeling:** A. Nolting, P. J. Moore, J. Homburg, F. Fernandez-Ibanez, T. Buono
- 9:05**     **Fracture Development in the Interior of a Stable Carbonate Platform: New Evidence From the Distribution of Karst Features on Andros Island, Great Bahama Bank:** F. F. Whitaker, H. Mills, D. Leslie

- 9:25**     **Refreshment Break**
- 10:10**     **Quantitative Assessment of Karst Pore Volume in Carbonate Reservoirs Using Discrete Karst Networks:** F. Fernandez-Ibanez, P. J. Moore, G. D. Jones
- 10:30**     **The Tidal Capillary Fringe as a Hot Spot for Dissolution in Eogenetic Carbonate Platforms:** J. Gulley, D. Breecker, M. Covington, P. J. Moore, J. Banner, C. Breithaupt, J. Martin
- 10:50**     **Calculating Regional Diffusivity of Bahamian Carbonates by Analysis of Tidal Oscillations in Wells, Boreholes, and Karst Features:** C. I. Breithaupt, J. Gulley, P. J. Moore, T. Buono, S. M. Fullmer, A. Nolting, E. Bunge, F. Fernandez-Ibanez, Kerans
- 11:10**     **Carbonate Shelf Margin Morphometrics: Insights From Multibeam and Airborne Lidar Bathymetry of the Caicos Platform:** C. K. Zahm, C. Kerans, D. Duncan, M. Davis
- 11:30**     **Reservoir Implications of Facies and Diagenetic Variability in an Oolitic Grainstone – Pleistocene Miami Oolite:** P. M. Harris, S. Purkis

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## Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks

Room 217 B/C

Co-Chairs: J. P. Bhattacharya, A. F. Cadena, and R.D. Wilson

- 8:00**     **Introductory Remarks**
- 8:05**     **Using Noble Gases to Identify Hydraulic Fracturing “Sweet Spots” in Organic Rich Shales:** B. A. Lary, W. Eymold, C. J. Whyte, J. Harrington, J. Moortgat, T. Darrah
- 8:25**     **Numerical and Empirical Evaluation of Noble Gas Diffusivity to Reconstruct Paleo Fluid Flow in the Appalachian Basin:** W. K. Eymold, B. A. Lary, J. A. Harrington, C. J. Whyte, J. Moortgat, T. H. Darrah
- 8:45**     **Petrographic Evidence of the Origin of Differential Compaction in the Chert and Siliceous Shale Beds in the Woodford Shale of Oklahoma:** C. D. Hall
- 9:05**     **Niobrara Surface Seismic Data—Resolution Enhancement and Reservoir Characterization Through Wavefield Re-Datuming and Inversion:** J. Behura
- 9:25**     **Refreshment Break**
- 10:10**   **Subseismic Scale Reservoir Complexity in a Multilayered Tight Reservoir: Combining New and Established Well Log Characterization Techniques With Seismic Attribute Analysis Sheds New Light on Reservoir Heterogeneity:** S. C. Iwuoha, D. Harazim, G. Austermann, P. K. Pedersen, C. R. Clarkson

- 10:30**   **Inner Shelf Mudstones in the Cretaceous Seaway – Processes and Products:** J. P. Bhattacharya, M. Wiercigroch, M. Leung, C. Genovese
- 10:50**   **Where is the Water? – A Physical Analysis of Hydraulic Fracturing Processes:** G. D. Couples
- 11:10**   **Applications of High-Resolution X-Ray Fluorescence (XRF) Elemental Data in Mineral Modeling, Brittleness Indices, and Chemostratigraphic Correlation in the STACK Play of Central Oklahoma:** N. R. Hart, M. C. Dix, H. D. Rowe, A. Morrell, G. Torrez
- 11:30**   **Diagenesis of Mudstones: What Can We Learn From Magnetic Studies?:** M. Anson Sanchez, G. Heij, R. Elmore

## Theme 8: New Applications of Machine Learning to Subsurface Science

Room 217 D

Co-Chairs: C. Xu, C. Pellan, and S. Bhattacharya

- 8:00**     **Introductory Remarks**
- 8:05**     **Deep Learning Applied to Fault Interpretation and Attribute Computation:** D. P. Griffith, S. Zamanian, J. Vila, R. Potter, A. Vial-Aussavy, F. Menapace
- 8:25**     **Applying Conditional Generative Adversarial Networks for Seismic Data Reconstruction:** R. S. Ferreira, D. A. Oliveira, E. V. Brazil

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**TGS**

- 8:45 **Spatial Sampling Bias in Learning Tree Machine Learning Methods for Unconventional Resources:** W. Liu, M. Pyrcz, S. Ikonnikova S. Hamlin, L. Sivila
- 9:05 **A Supervised Machine-Learning Approach to Stratigraphic Surface Picking in Well Logs From the Mannville Group of Alberta, Canada:** J. C. Gosses, L. Zhang
- 9:25 **Refreshment Break**
- 10:10 **AI to Improve the Reliability and Reproducibility of Descriptive Data: A Case Study Using Convolutional Neural Networks to Recognize Carbonate Facies in Cores:** C. M. J. S. Kanagandran
- 10:30 **Conditioning Stratigraphic, Rule-Based Models With Generative Adversarial Networks: A Deep-Water Lobe Example:** H. Jo, S. E. Santos, M. J. Pyrcz
- 10:50 **Leveraging Probabilistic MVCA of Well Logs for Defining and Quantifying Sweet Spots in Heterogeneous Reservoirs:** E. V. Eslinger, F. Boyle, A. A. Curtis
- 11:10 **Representation Learning in Seismic Interpretation:** S. Purves, D. Oikonomou, B. Alaei, E. Larsen
- 11:30 **Comparison of Deep Learning Fault Interpretation From Seismic Data With Traditional and Attribute Based Techniques:** J. Lowell, W. Thorley

## Theme 4: Global Studies of Extensional and Passive Margins

Room 214 B/C

Co-Chairs: S. J. Wilkins and C. Donohue

- 8:00 **Introductory Remarks**
- 8:05 **The Concertina Coast: A 300-Million-Year History of Extension Punctuated by Inversion and Reactivation Along Australia's Northern Margin:** M. Keep
- 8:25 **Lithospheric Evolution Along a Slowly Rifted Passive Margin: Otway Basin, Southeast Australia – A Pragmatic Approach for Petroleum Systems Modeling:** D. B. Palmowski, A. Kleine, B. Bosbach
- 8:45 **Segmentation and Mechanism of Differential Extension in the Continental Marginal Basins of the Northern South China Sea:** Y. Zhang, J. Qi, J. Wu, B. Wang, L. Li
- 9:05 **Restoring Seismic Images Based on Structural Forward Models to Reveal the Interplay Between Faulting, Erosion, and Fluvial Processes at a Basin-Bounding Growth Fault in the Bohai Bay, China:** N. Eichelberger, A. Nunns, N. D. Perez, S. Ball, D. He
- 9:25 **Refreshment Break**
- 10:10 **Integrated Analysis of Seismic Data and Potential Fields in Southeastern Gulf of Mexico With Implications to Pre-Salt Sediments and Crustal Architecture:** I. Filina, L. Hartford
- 10:25 **Reconstruction and Forward Modeling of Deep-Water Basins on the Hyperextended Atlantic Margins:** R. Whittaker, B. Ady
- 10:50 **Plates to Prospects: Interplay Between Crustal Structure and the Development of the Deep-Water Fold-and-Thrust Belts Offshore Northeast Mexico:** P. A. Marshall, D. Carruthers, C. Watkins, P. Marshall, A. Juhasz, A. Palombo, S. Roy

- 11:10 **Restoring the Late Jurassic Conjugate Margins of the Gulf of Mexico: Recent Progress and Remaining Problems:** P. Mann, A. Steier, P. Lin
- 11:30 **Spanning the End-Member Break-Up Models: Towards a Full Tectonostratigraphic Model for the South Atlantic From Conjugate Margin Data:** K. McDermott, S. Patruno, N. Hurst, L. Fullarton, P. Bellingham

## Theme 1: Deep-Water Systems Architecture: From Controls to Characterization

Room 217 A

Co-Chairs: Z. Sylvester and S. Barker

- 8:00 **Introductory Remarks**
- 8:05 **Controls on Shelf-Margin Architecture and Deep-Water System Development in Contrasted Tectonic and Climatic Settings: Insights From Quantitative 3-D Seismic Stratigraphy:** V. Paumard, S. Lang, J. Bourget, A. Gartrell, T. Nguyen
- 8:25 **Initiation and Growth of a Giant Paleogene Slope Fan Over Stacked Mass Transport Complexes, Offshore Newfoundland, Canada:** L. C. Henry, R. D. Faerber, D. Steinhoff, M. Bolivar, E. Browning
- 8:45 **Submarine Canyon Formation During Sea-Level Rise:** J. A. Covault, Z. Sylvester, D. B. Dunlap
- 9:05 **Westward-Ho: Why Do Most Turbidite Reservoirs Offshore Ghana Stack to the West, and What Impact Does This Have on Reservoir Heterogeneity, Modeling, Connected Volume, Well Placement, and on Exploration?:** B. T. Cronin

MONDAY

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- 9:25 Refreshment Break**
- 10:10 Controls on Deep-Water Cutoff Styles and Their Impact on Stratigraphic Architecture:** P. D. Morris, J. A. Covault, Z. Sylvester
- 10:30 The Cape Freels Fan: 3-D Seismic Observations That Challenge the Turbidite Fan Paradigm:** R. T. Beaubouef, R. O. Bracht, S. M. Donnelly, R. J. Fitzsimmons
- 10:50 What Lies Beneath? The Sub-Seismic Character of The Perfect Fan:** A. S. Pontén, A. Groth, I. Kane, I. Netland, S. Lund Jensen
- 11:10 Heterogeneity in Unconfined Deep-Water Fans: Insights From a Quantitative Evaluation of Outcrop, Subsurface, and Computational Stratigraphy:** F. J. Laugier, T. Sun, M. D. Sullivan, A. D. Harris, A. S. Madof
- 11:30 Stratigraphic and Facies Architecture of the Delaware Mountain Group, Delaware Basin: Implications for Disposal of Hydraulic Fracturing Wastewater:** K. M. Smye, D.A. Banerji, H.S. Hamlin, R. L. Eastwood, C. R. Lemons, G. McDaid, P. H. Hennings

## Theme 3: Geochemistry Applications in Petroleum Systems Characterization

Room 214 D

Co-Chairs: K. E. Peters, D. Schumacher, and I. Arango

- 8:00 Introductory Remarks**
- 8:05 Geochemical and Biomarker Evidence of Microbial Community Changes During Lower Cretaceous OAE 1b: Comanche Shelf, Glen Rose Formation, Central Texas:** X. Sun, R. Forkner
- 8:25 Oil to Source Rock Correlation of the Lower Cretaceous in the East Texas Basin:** J. Zumberge, S. Brown, J. Kast, H. Illich, J. Curtis\*
- 8:45 Trace Metal Variability in the Lower Bakken Formation – Implications for Late Devonian Global Ocean Redox:** S. Sahoo, K. S. Hlava, B. S. Hart
- 9:05 Sedimentation Rate Variations and Trace Metal Elements as Paleoenvironmental Proxies: What Are We Doing Wrong?:** V. Crombez, S. Rohais, E. Hernandez Bilbao, L. Riquier, T. Euzen, F. Baudin
- 9:25 Refreshment Break**
- 10:10 The Confusion About Thermal Maturity With Respect to Vitrinite Reflectance, Tmax, and Other Proxies:** B. J. Katz, F. Lin
- 10:30 Biomarker Geochemistry of Early Cretaceous Sediments From West Africa:** X. Cui, B. D. Wignall, K. H. Freeman, R. E. Summons\*
- 10:50 Chemometric Identification and 1-D Modeling of Geochemically Distinct Oil Tribes, an Integrated Approach to Petroleum System Analysis in the Middle Magdalena Valley, Colombia:** W. Thompson-Butler, K. E. Peters, L. B. Magoon, J. Moldowan, A. Hosford Scheirer, V. O. Blanco Velandia, S. A. Graham

- 11:10 A Regional Framework With New Insights Into the Petroleum Systems of the Carson-Bonnyton-Salar Basins, Offshore Newfoundland and Labrador, Canada:** D. Norris, E. Gillis, L. Stead, V. Mitchell
- 11:30 Top Down Petroleum System Analysis: Exploiting Geospatial Patterns in the Properties of Hydrocarbon Fluids:** Z. He, A. Murray

## Theme 9: Planetary Geology and Energy Frontiers

Room 214 A

Co-Chairs: W. A. Ambrose and D. J. Cook

- 8:00 Introductory Remarks**
- 8:05 Effects of the Chicxulub Impact Found in the Subsurface of Northern Louisiana:** G. L. Kinsland
- 8:25 The Next Generation Planetary Exploration Geophysical System:** M. A. Brzostowski, D. Feustel
- 8:45 Energy and Minerals Drive Commercial Space Exploration:** B. L. Cutright, W. A. Ambrose
- 9:05 Return to the Moon: Risks and Rewards:** W. A. Ambrose
- 9:25 Refreshment Break**
- 10:10 Mars In Situ Resources and Utilization for Human Settlement:** D. J. Cook
- 10:30 Using Potash Identification (PID) Plot to Distinguish Commercial Potash Mineralization:** D. G. Hill
- 10:50 Geoscience Perspectives on Technology Development in Energy Storage and Implications for Strategic Mineral Exploration:** E. N. Wilson, J. R. Edmondson
- 11:10 Geothermal Resource Characterization of the Middle Devonian Slave Point Formation at Clarke Lake Field, Fort Nelson, British Columbia, Canada:** E. Renaud, N. B. Harris, J. Banks, J. A. Weissenberger
- 11:30 Electricity Generation Potential of Co-Produced Water From Active Oil Wells in Eagleview Field, Eagle Ford Shale, Karnes, and Gonzales County, Texas:** G. J. Thomas

## Theme 7: Integration of Geology and Geophysics

Room 213 A/B

Chair: Y. Li

- 8:00 Introductory Remarks**
- 8:05 Process-Like Modeling in Turbiditic Channel Environments Constrained by Well Data, 3-D and 4-D Seismic Attributes Application to Offshore West Africa Data:** A. Barnola, S. Chokr
- 8:25 Predrill Lithoclassification in the Wolfcamp, Permian Basin, and Other Clay-Rich Plays: The Necessity of Prestack Seismic Inversion:** S. Dasgupta, C. Sayers, D. Paddock\*
- 8:45 Geology and Geophysics Integrated Quantitative Characterizations of Complex Carbonate Fractured-Vuggy Reservoirs of Central Uplift in Tarim Basin:** F. Tian, X. Luo, H. Yang, S. Li, Z. Wang, C. Shen, W. Zhang, S. Yin, R. Pei, B. Zhang



- 9:05 **Prospect De-Risking Using Seismic Forward Modeling of Frequency RGB Blends:** R. M. Williams, R. Moore
- 9:25 **Refreshment Break**
- 10:10 **Feasibility Study of Improved Reservoir Mapping Using Joint Inversion of Extra-Deep Azimuthal Resistivity and Deep Shear Wave Imaging:** Z. Wei, L. Wang
- 10:30 **Workflow for Zoeppritz AVO Inversion to Estimate Seismic Anisotropy and Geomechanical Properties of Shale: Case Study of Avalon Shale, Delaware Basin:** U. Lim, N. Kabir, R. Gibson
- 10:50 **3-D Seismic Characterization of Paleokarst Collapse Features in the Arkoma Basin, Oklahoma:** O. Aboaba, C. Liner
- 11:10 **Fine Lithology and Sedimentary Facies Prediction of Carbonate Based on the Amplitude Attribute of Converted Shear Wave:** H. Wang, J. Gao, X. Guan, S. Li, J. Gui, X. Guo
- 11:30 **Acquisition Modeling for Full Waveform Inversion Model Building in the Gulf of Mexico:** H. H. Roende, D. Bate, J. Sheng, J. Kegel, T. Jhonson

## MONDAY MORNING POSTER SESSIONS

### AAPG Student Research Poster Session I

Exhibit Hall 9:00 am–12:00 pm

(Presenters will be in their booths 9:30am–11:00 am)

**Co-Chairs:** B. Strickland and A. Uvwo

- P1 Evolution of Submarine Channel-Lobe Systems on a Salt-Influenced Passive Margin, Offshore Angola:** D. Howlett, R. L. Gawthorpe, A. Rotevatn, Z. Ge, C. A. Jackson
- P2 A New Modeling Approach for Turbidite Stratigraphic Trap and Reservoir Distribution Prediction: Examples Using Deep-Water Systems of the East Coast Basin, New Zealand:** A. Crisostomo Figueroa, A. D. McArthur, L. Amy, R. Dorrell, W. McCaffrey
- P3 Seismic Geomorphology of Deep-Water Rift Basins – Depositional Architectures in a Late Jurassic Syn-Rift Turbidite Province Offshore Norway:** F. Tillmans, R. L. Gawthorpe, A. Rotevatn, C. A. Jackson, G. A. Henstra, W. S. Helland-Hansen
- P4 Deep Oil Cracking, TSR, Gas Invasion and Formation Mechanisms of Large Multi-Phase Reservoirs:** Z. Zhang, G. Zhu
- P5 Climatically Influenced Progradation of a Deep-Water Turbidite Fan, Late Pliocene Syn-Rift Succession,**



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- P6** **Corinth Rift, Greece:** G. Eliassen, R. L. Gawthorpe, M. Muravchik, G. A. Henstra, H. Kranis, E. Skourtsos  
**Selective Charging of Neogene Sand Bodies in Meandering Fluvial Systems in the Bohai Bay Basin, China:** K. Zhao, Y. Jiang, H. Hu
- P7** **Top Seal Evaluation of Miocene Deep-Water Reservoirs, Southern Gulf of Mexico:** F. A. Apango, J. W. Snedden
- P8** **Understanding Fluvial to Shallow Marine Clastic Reservoir Heterogeneity From Modern Analogs Resolved by Core, GPR, and Drone Photogrammetry:** P. D. Duff
- P9** **Bed-Scale Modeling of Deep-Water Architectural-Elements: What Heterogeneities Matter to Flow?:** D. Bell, A. S. Pontén, I. A. Kane, K. Nair, A. Obradors Latre, C. Thrana, D. M. Hodgson
- P10** **Controls of Cenozoic Mass Transport Deposits on Hydrocarbon Prospectivity of the Mexican Ridges Fold-Belt, Western Gulf of Mexico:** J. Kenning, P. Mann
- P11** **Flow and Substrate Interactions of MTDs With Submarine Channels: 3-D Seismic Examples From Taranaki Basin, Offshore New Zealand:** J. C. Nwoko, I. Kane, M. Huuse
- P12** **Characterization of Stacked Meander-Belt Deposits and Implications for Steam Assisted Gravity Drainage, McMurray Formation, Alberta, Canada:** J. Curkan, S. Nejadi, P. Durkin, S. M. Hubbard
- P13** **Allogenic Versus Autogenic Controls on Sedimentation in the Fluvial-to-Marine Transition Zone: A Subsurface Study From the Dhurma Formation, Rub' Alkhalbi, Saudi Arabia:** B. H. Alshammari, N. P. Mountney, L. Colombero
- P14** **Identifying Compartmentalized Sections of Lower Vicksburg Reservoirs and the Potential for Directional Drilling in McAllen Ranch Field, Hidalgo County, Texas:** M. A. McAllen, D. Van Nieuwenhuise
- P15** **The Variability of Reservoir Quality in Submarine Slope Channel Complexes: Insights From an Outcrop Analog, Tres Pasos Formation, Chilean Patagonia:** A. Fuhrmann, B. Daniels, S. M. Hubbard, I. Kane, R. Brunt

## SEPM Student Research Poster Session I

**Co-Chairs:** H. E. Harper and J. F. Sarg

- P16** **The Diversity of Bottom-Current Influenced Submarine Slope Channel Complexes: Insights From Offshore Tanzania:** A. Fuhrmann, I. Kane, R. Ferguson, E. R. Schomacker, S. Barker, R. Brunt
- P17** **Syn-Depositional Tectonics Control Three-Dimensional Channel Organization at Multiple Scales: The Arro Turbidite System, Ainsa Basin, Spanish Pyrenees:** D. E. Tek, M. Poyatos-Moré, M. Patacci, L. Colombero, A. D. McArthur, W. D. McCaffrey



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- P18** **Evaluating the Relationship Between Stoichiometry and Cation Ordering in Ancient Dolomites:** C. J. Manche, S. E. Kaczmarek
- P19** **Interpreting Amalgamation Processes of a Fluvial Sandstone of the Nacimiento Formation in the San Juan Basin, New Mexico:** K. E. Miltenberger, G. S. Weissmann
- P20** **From River to Delta: Down-Dip Changes in Amalgamated Sheet Sandstones Along an Exhumed Transect:** A. E. van Yperen, M. Poyatos-Moré, J. M. Holbrook, I. Midtkandal
- P21** **Modeling Heterogeneities: A Quantitative Analysis of Two Slope Channel Systems: Laguna Amarga, Cerro Toro Formation, Chile and Canyon San Fernando, Rosario Formation, Mexico:** D. I. Mendez Fermin, B. Kneller
- P22** **Unraveling the Complex Tectonostratigraphic Evolution of the Ventura Basin, California, Using Detrital Zircon Mixture Modeling:** J.C. Gilbert, Z. R. Jobe, G. R. Sharman, S. A. Johnstone
- P23** **Refining the Depositional Environments of Epeiric Sea Carbonates Through Applying Ichnologic Toolbox: A Case Study of the Upper Ordovician Stony Mountain Formation in the Williston Basin, Canada:** C. Zheng, M. Mángano, L. Buatois
- P24** **Ichnological Expressions of Low Oxygen Settings: An Ichnological Analysis of the Canol Formation, Northwest Territories, Canada:** S. K. Biddle, M. T. LaGrange Rao, B. Harris, K. M. Fiess, V. Terlaky, M. Gingras
- P25** **Depositional Controls on the Origin of Clay Minerals in the Mancos Shale (Turonian Age), Henry Mountains Region, South-Central Utah:** Z. Li, J. Schieber, D. Bish
- P26** **Paleodrainage Reconstruction of the Cretaceous Gallup Sandstone Formation, New Mexico: Insights From U-Pb Detrital Zircon Geochronology:** C. Ferron, J. Bhattacharya
- P27** **Quantitative Analysis of the Green River Formation, Piceance Basin, Colorado: A Useful Tool to Elucidate the Depositional Process of the Paleolake:** T. Wu, J. Boak
- P32** **Barrier vs. Conduit Behavior of Faults Near Salt: Examples From the Gypsum Valley Salt Wall, Paradox Basin, Colorado:** L. Lueck, M. Fischer
- P33** **Sequential Structural Restoration of the Lisbon Valley Anticline, Paradox Basin, Utah:** S. H. Lingrey
- P34** **Controls on Compartmentalization Within Supra-Salt Crestal Fault Systems: A Case Study From the Salt Valley Salt Wall, Paradox Basin, Utah:** T. Randles, S. M. Clarke
- P35** **Along-Strike Variation of Halokinesis and Structural Inheritance Along the West African Salt Basin, South Atlantic:** E. V. Legeay, J. Ringenbach, J. Callot, J. Ballard
- P36** **Evidence for Permo-Triassic Salt Tectonics in the Eagle Basin, Colorado, USA:** R. W. Pearigen, B. D. Trudgill, T. E. Hearon, M. Carr
- P37** **Role of Side-Burden Strength in the Shaping of Active Salt Diapirs:** R. Goteti
- P38** **Mesozoic Breakup of Southwest Gondwana and Basin Formation Along the Argentinean Atlantic Margin:** J. P. Lovecchio, S. Rohais, V. Ramos, P. Joseph, N. D. Bolatti

## Theme 2: Carbonate Mixed Systems

Co-Chairs: *X. Janson and J. Gomes*

- P39** **Climatic Signals in Lacustrine Deposits of the Upper Yacoraite Formation, Western Argentina: Evidence From Clay Minerals, Dolomite, and Radial Fibrous Calcite:** J. Borges Gomes, R. Bunevich, S. Tonietto, D. B. Alves, J. F. Santos, F. F. Whitaker
- P40** **Stratigraphic Architecture of the Desmoinesian Bug Scuffle Limestone, Sacramento Mountains, New Mexico:** B. Rendall, G. P. Wahlman, C. Kerans
- P41** **Mixed Carbonate and Clastic Mass Failures in a Sub-Lacustrine Settings: Implications for Unconventional Hydrocarbon Systems, a Study of the Green River and Uinta Formations (Eocene), Uinta and Piceance Basins, Utah and Colorado:** F. McFarlin, L. J. Wood, J. F. Sarg, M. Pommer
- P42** **A 3-D Seismic Study of Upper Palaeozoic Carbonate and Spiculites Deposition on the Eastern Finnmark Platform (Norway):** X. Huang
- P43** **Stratigraphic Architecture and Sediment Partitioning in the Mixed Carbonate-Siliciclastic Bone Spring Formation, Delaware Basin, Texas:** W. Walker, Z. R. Jobe
- P44** **Growth Anatomy of a Modern Rift Basin Carbonate Platform (Al Wahj, Red Sea): Interplay of Rift Faulting, Salt Tectonics, Eustacy, and Climate:** P. Khanna, V. C. Vahrenkamp, B. Yalcin, A. Ramdani
- P45** **The Late Jurassic Great Barrier Reef of the North American Atlantic Continental Margin: Initial Findings From Basin Analysis-Seismic Stratigraphy:** R. Zhai, J. D. Pigott, K. L. Pigott

## Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I

Co-Chairs: *M. Nikolinakou and O. Duffy*

- P28** **Shortening of Diapir Provinces: Translation, Tilting, and Rotation of Minibasins in Isolated Minibasin Systems:** T. P. Dooley, M. R. Hudec, O. Duffy, N. Fernandez
- P29** **The Messinian Salt Layer Squeezed by Active Plate Convergence in the Western Mediterranean Margins:** J. I. Soto, J. Déverchère, M. Medaouri, P. Leffondré
- P30** **Radial Fractures and Ring Faults in Sediments Overlying Layered Evaporite Sequences During Active Salt Diapirism: Insights From Geomechanical Forward Modeling:** P. Nso, A. Eckert
- P31** **Deep-Water Reservoir Distribution in a Syn-Depositionally Active Salt-Confined Mini Basin-Fill:** Z. A. Cumberpatch, I. A. Kane, C. A. Jackson, D. M. Hodgson, E. L. Soutter, B. Kilhams, A. Martinez-Doñate Gomez, D. Lee, M. Huuse, M. Finch, L. Pichel



- P46** **Carbonate Reservoir Distribution in a Complex, Mixed Depositional System: A New Stratigraphic Model for the Relationships Between the Paleocene – Eocene Sinjar, Khurmala, and Kolosh Formations in the Kurdistan Region of Iraq:** R. Dvoretzky, N. Raterman, B. Hasan, D. Goff

## Theme 5: Evolution of the Organic and Inorganic Matrix

Chair: P. Welch

- P47** **Critical Factors Controlling Shale Gas Adsorption Mechanisms on Organic/Inorganic Minerals Investigated Using GCMC Simulations:** G. Chen, S. Lu, K. Liu, Q. Xue, C. Xu
- P48** **Integration of Microfacies Analysis, Inorganic Geochemical Data and Hyperspectral Imaging to Unravel Mudstone Depositional and Diagenetic Processes in Two Cores From the Triassic Shublik Formation, Northern Alaska:** K. J. Whidden, J. E. Birdwell, J. A. Dumoulin, L. C. Fonteau, B. A. Martini

## Theme 1: Interaction Between Sedimentation and Tectonics I

Co-Chairs: J. C. Pickens, T. Schwartz, and I. R. Clark

- P49** **Tectonic Evolution and Distributions of Triassic Sandstone at Bird Head Area: Implication of New Hydrocarbon Plays in West Papua, Indonesia:** B. Sapiie, I. Gunawan, S. Damayanti, A. Shirly, W. Kurniawan
- P50** **Using Landscape Evolution Modeling to Evaluate Potential for Buried Mega-Landslide Reservoir Units Within the Basin and Range, Western USA:** N. T. Ferry, D. M. Sturmer, D. J. Ward
- P51** **Along-Strike Prediction of Syn-Rift Fan Delta Architecture With Field, Subsurface, and Numerical Modeling Investigations:** B. J. Barrett, D. M. Hodgson, R. E. Collier, R. L. Gawthorpe, R. Dorrell, T. M. Cullen
- P52** **Fluvial Architectures in Active Rift Settings:** D. J. Somerville, N. P. Mountney, L. Colombero, R. E. Collier
- P53** **High-Resolution Seismic Imaging and Modeling of Structural and Stratigraphical Features in the Southwest Barents Sea:** T. Faleide, A. Braathen, S. Planke, I. Midtkandal, R. Corseri, J. Faleide
- P54** **Synsedimentary Faulting Controls on Sandstone Distribution in an Incipient Slope System, Tres Pasos Formation, Southern Chile:** S. Kaempfe, B. Romans, S. M. Hubbard, L. E. Stright, R. Englert, B. Daniels, D. Niquet



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- P55 Sediment Routing and Provenance of Deep Marine Sandstones in the Late Paleozoic Oquirrh Basin, Utah:** A. Jones, D. Sturmer
- P56 Probabilistic Assessment of Sand Presence in Continental Rift Settings:** A. D. Harris, P. J. Lovely, S. Baumgardner, K. Ghayour, T. Engelder, T. Sun, R. P. Lyons, D. Granjeon
- P57 Controls on Submarine Channel Type and Distribution in Complex Tectonic Settings: Examples From the Hikurangi Subduction Margin, New Zealand:** A. D. McArthur, A. Wunderlich, D. E. Tek, A. Karvelas, W. D. McCaffrey
- P58 Structural Controls on Sequence Stratigraphic Architecture During Rift Basin Development: An Example From the Northern Carnarvon Basin, North West Shelf, Australia:** A. Gartrell, J. Torres, M. Dixon, M. Keep

## Theme 1: Interaction Between Sedimentation and Tectonics II

**Co-Chairs:** J. C. Pickens, I. R. Clark, and T. Schwartz

- P59 Variable Inversion of Polyphase Rift Basins Impacts the Triassic Sequence Architecture of the North West Shelf, Australia:** A. Gartrell, M. Keep, C. van der Riet, L. Paterniti, S. Ban
- P60 Mobile Shale's Evolution and Deformational Patterns in a Neogene Gravity-Driven System, Offshore Western Niger Delta:** K. I. Chima, N. M. Hoggmascall, M. Mora-Glukstad, E. Leroux, D. Do-Couto, N. Landry, D. Granjeon, M. Rabineau, O. U. Onwuka, C. Gorini
- P61 Exploring in Mixed Axial and Transverse Post-Rift Deep-Water Systems: The Cretaceous Lysing Formation, Offshore Norway:** L. Hansen, D. M. Hodgson\*, A. S. Pontén, C. Thrana, A. Obradors Latre, S. S. Flint
- P62 Stratigraphy and Sedimentology of the Upper Bakken, Cottonwood Canyon and Lower Banff Section: Complexities Associated With Fine-Grained Depositional Systems in a Tectonically Active, Low-Accommodation Setting, and Their Implications on the Bakken Petroleum System:** J. C. Hohman, J. Guthrie, N. Hogancamp
- P63 Evolution of the Miocene Manantiales Basin, South-Central Andes: Evidence for Strongly Coupled Rapid Basin Subsidence and Exhumation:** J. Mahoney, M. A. Mazzitelli, J. Suriano, D. L. Kimbrough, J. Metcalf, J. Metcalf, A. Lossada, L. B. Giambiagi, J. F. Mescua
- P64 Tectonically-Controlled Submarine Canyon Initiation, Fill and Abandonment Constrained by Detrital Zircon Geochronology: Cretaceous Punta Baja Formation., Baja California, Mexico:** I. Kane, D. M. Hodgson, S. M. Hubbard, A. D. McArthur, M. Poyatos-Moré, W. A. Matthews, S. S. Flint
- P65 Study on the Simulation Experiment of the Sedimentary Process and Sedimentary Architecture of the Alluvial Fan Under the Control of Normal Faults:** S. Wei, Z. Liu, X. Wang
- P66 Deep-Water Channels "Swept" Downstream After Bend Cutoff in Salt Basins:** J. A. Covault, Z. Sylvester, M. R. Hudec, C. Ceyhan, D. B. Dunlap
- P67 A New Model for the Mesozoic Tectonostratigraphic Evolution of the Gulf of Mexico Basin: New Plate Tectonic and Sediment Routing Reconstructions:** J. W. Snedden, I. Norton, Institute for Geophysics
- P68 Three-Dimensional Forward Stratigraphic Modeling of the Sedimentary Architecture of Meandering-River Successions in Half-Grabens:** N. Yan, L. Colombero, N. P. Mountney

## Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis

**Co-Chairs:** T. Payenberg, B. Vakarelov, and C. Wu

- P69 Modeling 3-D Facies Architecture and Heterogeneity of Fluvial Point-Bar Elements Recording Meander-Bend Rotation: Implications for Reservoir Compartmentalization:** N. Yan, L. Colombero, N. P. Mountney
- P70 Three-Dimensional Eolian Bounding Surface Architecture of the Entrada Sandstone, Utah: Expanding Our Understanding of Reservoir Heterogeneity in Wet Eolian Systems:** E. Gross, M. Carr, Z. Jobe
- P71 Quantitative Prediction of Sandbody Connectivity Within Distributive Fluvial Systems Using Process-Based Numerical Modeling:** S. Worms, C. M. Griffiths, A. Owen, J. A. Howell, A. J. Hartley
- P72 Quantitative Fluvial Facies Models as Guides to Subsurface Interpretations:** L. Colombero, N. P. Mountney
- P73 Stratigraphic Architecture of Exhumed Fluvial Channel-Belts: Anatomy of an Avulsion:** C. M. Speed, Z. Sylvester, P. P. Flaig, P. Durkin, B. T. Cardenas, T. A. Goudge
- P74 Lessons From an Extensive Fluvial Channel and Channel Belt Parameter Database Based on Modern Data: Key Learnings and Practical Applications for the Subsurface:** B. K. Vakarelov, N. Paneva, O. K. Vakarelov, T. Payenberg
- P75 Basinward Trends in Fluvial Architecture, Connectivity, and Reservoir Characterization of the Trail Member, Ericson Sandstone, Mesaverde Group in Wyoming, Utah, and Colorado, USA:** C. A. Jolley, S. M. Hudson
- P76 The Interactions of Volcanism and Clastic Sedimentary Systems in Rift Basins: An Example From the Paleogene Bohai-Bay Basin, China:** H. Chen, X. Zhu, R. L. Gawthorpe, L. J. Wood, Q. Liu
- P77 Sedimentary Characteristics of Hyperpynites of the Lower Cretaceous Xiguayuan Formation in Luanping Basin, Northeast China: Implication for Lithological Reservoir Exploration in Ramp Margin of Rift Lacustrine Basins:** L. Dou, J. Hou, Y. Liu, L. Zhang, S. Song
- P78 Reconstructing Fluvial Meander-Belt Morphodynamics in a UAV Structure-From-Motion Digital Outcrop:** P. R. Durkin, P. R. Nesbit, S. M. Hubbard, T. Lyons

## Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs

Co-Chairs: J. F. Gale and R. A. Nelson

- P80** **Fault Zone Oil Migration Pathways in Austin Chalk, Southwest Texas:** D. A. Ferrill, M. A. Evans, R. N. McGinnis, A. P. Morris, K. J. Smart, D. Lehrmann, K. D. Gulliver, Z. T. Sickmann
- P81** **Fracture Patterns and Petrophysical Properties in the Kuqa Depression, Tarim Basin, and Their Relationship With Regional Folding:** Z. Wang, X. Lv
- P82** **Uncertainty Analysis in Capillary Controls Across Faults:** R. K. Davies, D. Povey, P. Wilson, S. Harris
- P83** **Structural Analysis and 3-D Modeling of a Naturally Fractured Field in the South-East Gulf of Mexico:** L. B. Sanchez, S. Mitra, R. H. Peterson, K. J. Marfurt
- P84** **Reducing Uncertainty in Fracture Modeling: Assessing User Bias in Interpretations from Satellite Imagery:** J. J. Long, R. R. Jones, S. E. Daniels, S. R. Gilment, D. M. Oxlade, M. W. Wilkinson
- P85** **Quantified Fracture (Joint) Clustering in Archean Basement, Wyoming: Application of Normalized Correlation Count Method:** Q. Wang, S. E. Laubach, J. F. Gale, M. Ramos
- P86** **Host Rock Controls on the Petrophysical Properties of Carbonate-Hosted Fault Rocks: A Case Study From Malta:** A. Cooke, Q. J. Fisher, E. A. Michie, G. Yielding
- P87** **Analogous Juxtaposition of Mixed Lithologies Against a Siliciclastic Hydrocarbon Reservoir and Proposed CO<sub>2</sub> Storage Formation in the Norwegian North Sea:** J. L. Osmond, M. J. Mulrooney, E. Skurtveit, A. Braathen

## Theme 5: Permian Basin Unconventionals

Chair: P. Welch

- P88** **The Geology and Geochemistry of Helium CO<sub>2</sub> and Low-BTU Hydrocarbon Reservoirs in the Permian Basin:** T. Darrah, J. Harrington, C. J. Whyte, E. L. Frost, R. Poreda
- P89** **Production Profiles and Geologic Characteristics of the Wolfcamp Play:** O. H. Popova, G. Long, J. Little, S. Grape, E. Panarelli, E. Geary, A. Patel
- P90** **Grain Assemblages and Diagenesis in Organic-Rich Mudrocks, Late Pennsylvanian Cline Shale (Wolfcamp D), Midland Basin, Texas:** J. Peng, K. L. Milliken, Q. Fu, X. Janson, S. Hamlin
- P91** **3-D Basin Modeling of the Permian Delaware Basin: Tectonic Evolution Assessment to Improve Definition of Boundary Conditions:** M. R. Becker, A. Miceli Romero, A. Yu
- P92** **XRF and Lidar Survey of Bone Canyon, West Texas: A High-Resolution Sequence Stratigraphic Framework Providing Insight Into Updip Deep-Water Lithofacies:** A. Brown, J. D. Pigott
- P93** **Geochemical Characterization of Drill Cuttings to Improve Facies Classification Schemes, Refine Depositional Models, and Serve as a Predictive Tool of**

**Rock Properties in the Delaware Basin:** M. Nieto, H. Rowe, M. Hemenway, A. Morrell, R. Krumm, E. Matheny, H. Garza

- P94** **Refining XRF Lithofacies With SEM Analysis for the Permian Wolfcamp Shale From the Delaware Basin, Texas:** R. M. Reed, R. W. Baumgardner, S. C. Ruppel, E. Tibocha, I. Deighton, A. Birch-Hawkins
- P95** **The Evolution of the Delaware North West Shelf:** R. Ball, S. Kimiagar\*

## Theme 6: Carbon Storage

Chair: K. Carter

- P96** **CO<sub>2</sub> Storage Potential of the Neogene Stratigraphy in the North Viking Graben:** C. Lloyd, M. Huuse
- P97** **New Approaches and Contents for a Brazilian Atlas of Carbon Capture and Storage:** M. Ciotta, D. Peyerl\*, L. V. Barrozo, L. G. Sant Anna, E. Moutinho dos Santos, C. Bermann, C. Grohmann, E. M. Moretto, C. Tassinari
- P98** **Increasing Geological Complexity of a Basin-Scale Model of the Mt. Simon Sandstone for the Simulation of Carbon Sequestration:** J. R. Damico, C. C. Monson, N. Grigsby, E. Mehnert, F. Yang
- P99** **Fault and Seal Analysis in the DeSoto Canyon Salt Basin: Implications for Offshore CO<sub>2</sub> Storage:** J. Meng, J. C. Pashin, R. Nygaard, A. Chandra
- P100** **Water Alternative Gas Process Optimizing for CO<sub>2</sub>-EOR and Carbon Storage:** Z. Zhong, T. R. Carr
- P101** **Application of Geostatistical 3-D Earth Model for CO<sub>2</sub> Storage Capacity Estimation in Jacksonburg-Stringtown Oil Field, West Virginia, USA:** Z. Zhong, T. R. Carr
- P102** **Texas Basement Synthesis Project: Understanding Geological Risk Factors of Basement-Involved Seismicity:** O. A. Callahan, P. Eichhubl, P. H. Hennings, K. M. Smye, E. A. Horne, C. Breton, R. D. Dommissie, A. Savvaidis, C. R. Lemons

## MONDAY AFTERNOON ORAL SESSIONS

### Discovery Thinking Forum – “Pioneering Discoveries Driving Prosperity”

Hemisfair Ballroom I

Chair: C. Sternbach

See page 18 for more information on this special session.

- 1:15** **Introductory Remarks**
- 1:20** **ExxonMobil Guyana Exploration and Discovery:** M.C. Guedez
- 2:00** **Discovery of Oil in Belize After Fifty Dry Holes: Geological Insights and Exploration Timeline:** S. Morrice
- 3:25** **Permian Basin Wolfberry and Wolfbone: Discovery of World-Class Resources in a Mature Basin and New Insights:** B. Fairhurst
- 4:05** **Discovery of the Unconventional Vaca Muerta Shale Play in the Neuquén Basin, Argentina:** C. Macellari



## Michel T. Halbouty Lecture (AAPG): The Future of Oil and Gas Exploration

Hemisfair Ballroom I

Chair: J. Gibbs

See page 19 for more details on this special presentation

Speaker:

5:10 **Stephen M. Greenlee**, President, ExxonMobil Exploration Company

## Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy

Room 217 B/C

Co-Chairs: C. Kerans and L. Frost

- 1:15 **Introductory Remarks**
- 1:20 **Anatomy of a Paleozoic Super Basin – The Permian Basin, USA: Geology, Depositional History, Basin Evolution, and Reservoir Development:** S. C. Ruppel, S. Nance, S. Hamlin, R. R. Harrington, R. G. Loucks, C. Kerans, Q. Fu, W. R. Wright
- 1:40 **Contrasting Guadalupian Infill Histories of the Midland and Delaware Basins:** C. Kerans, R. D. Dommissie, J. Rush, L. E. Waite
- 2:00 **Sequence Stratigraphic Model and Depositional Setting of The Permian Wolfcamp Tight Oil Play: Linking the Delaware and Midland Basins Through a Unified Stratigraphic Framework:** R. D. Wilson, T. Perkes, G. Hurd, M. D. Sullivan, S. J. Prochnow
- 2:20 **The San Andres (G9) – Grayburg (G10) Forced Regressive Turnaround, Brokeoff Mountains, New Mexico, USA:** J. Rush
- 2:40 **Refreshment Break**
- 3:25 **Basement-Rooted Fault Systems of the Midland and Delaware Basins and Their Influence on Early Permian Facies Distributions:** C. K. Zahm, C. Kerans, X. Janson, R. D. Dommissie, B. J. Price
- 3:45 **Controls on Wolfcampian and Leonardian Slope Morphology and Implications for Basinal Sedimentation Patterns and Stratigraphy, Delaware Basin, Southeast New Mexico and West Texas:** B. J. Price, X. Janson, C. Kerans
- 4:05 **Facies Variability Within a Single, Deep-Water Basin-Floor, Mixed Carbonate-Siliciclastic Fan (Upper Wolfcamp Formation, Permian, Delaware Basin, New Mexico):** E. P. Kvale, C. M. Bowie, C. Mace, B. Price, J. Borell
- 4:25 **Detrital Zircon U-Pb Data From the Permian Basin – Implications for Pangea Assembly, Southern Provenance and Sediment Routing:** D. F. Stockli, G. M. Soto-Kerans, L. Liu, N. Hu, X. Janson, J. A. Covault
- 4:45 **Contrasting the Stratigraphic Architecture of Carbonate Platform Across a Foreland Basin: Permian Carbonate Shelves of the Delaware Basin:** X. Janson, A. R. Hairabian, G. S. Hurd

## Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent

Room 217 D

Co-Chairs: D. R. Blood and L. Ko

- 1:15 **Introductory Remarks**
- 1:20 **Methods to Assess Thermal Maturity of the Deep Utica/Point Pleasant Play in the Appalachian Basin:** T. A. Bardol
- 1:40 **Hunton Limestone: A Highly Fractured, Natural Gas-Driven, Multiple Pay Carbonate Reservoir Within the STACK Play, Central Oklahoma:** S. Pinta
- 2:00 **Facies, Depositional Environments, Chemostratigraphy, and Reservoir Quality of the Middle Devonian Marcellus Formation, Appalachian Basin, Northeastern Pennsylvania:** L. Ko, T. Larson
- 2:20 **Sequence Stratigraphy of the Niobrara Formation, Powder River Basin, Wyoming: A Tool for Reservoir Quality Prediction:** R. A. Taylor, A. Perez, J. Fenton, Z. Li, C. Davies, G. Spence, J. Brenizer, A. S. Otteman
- 2:40 **Refreshment Break**
- 3:25 **Parasequence Expression in Epicontinental Organic-Rich Mudstones: Examples From the Middle-Late Devonian of North America:** R. D. Wilson, M. D. Sullivan, R. V. Macauley, R. Kukulski, A. Springer, J. Schieber
- 3:45 **Tectonic Control on Organic-Rich Mudstone Deposition and Associated Unconformity Development in the Utica, Marcellus and Genesee Shales, Northern Appalachian Basin, USA:** L. B. Smith, R. Wilson
- 4:05 **Carbonate Concretions in the Middle and Upper Devonian Shales of the Appalachian Basin: Insights Into Origin, Formation, and Their Effects on Drilling Efficiency:** D. R. Blood, G. Lash
- 4:25 **Integrating Noble Gas Geochemistry to Better Understand Hydrocarbon Stable Isotope Reversals:** C. J. Whyte, T. Darrah\*
- 4:45 **Chemostatistic Allocation of Shale Oil Using Acidic NOS Compounds Determined by Negative-Ion Electrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry:** Y. Han, B. Horsfield, N. Mahlstedt, M. Noah, H. L. LaReau, D. J. Curry

## Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I

Room 214 B/C

Co-Chairs: *R. A. Kernen and J. I. Soto*

- 1:15 **Introductory Remarks**
- 1:20 **Minibasin Obstruction by Base-Salt Welding on a Salt-Detached Slope: An Example From the Northern Gulf of Mexico:** O. B. Duffy, N. Fernandez, F. J. Peel, M. R. Hudec, T. P. Dooley
- 1:40 **Lateral Terminations of Salt Walls and Megaflaps: Structure and Kinematics From Analog Models and the Southeast Termination of the Gypsum Valley Diapir, Paradox Basin:** E. Roca, F. Escosa, M. G. Rowan, O. Ferrer, K. A. Giles
- 2:00 **A Reversal in the Roles of Salt and Sediment in the Northern Gulf of Mexico: The Rare Effect of Allochthonous Salt Advancement and Inflation on Over-Pressured Sediment:** J. C. Fiduk
- 2:20 **Evolution of Pressure and Stress in Salt-Suture Mudrocks:** M. A. Nikolnakou, M. Heidari, M. R. Hudec, P. B. Flemings
- 2:40 **Refreshment Break**
- 3:25 **Evolution of the Salina del Bravo Region, Mexico: The Bravo Trough, Sigsbee Canopy, and Perdido Fold Belt:** M. R. Hudec, T. P. Dooley, F. Peel
- 3:45 **Salt Allochthons in the Deep-Water North-Central Gulf of Mexico (Southeast Green Canyon): Their Role in Hydrocarbon Trap Development and Minibasin Emplacement:** V. S. Mount
- 4:05 **Timing of Late Pre-Salt Faulting and Salt Mobilization in the Santos Basin, Brazil:** H. D. Lebit, J. Tilton, P. Ollagnon, S. Arasanipalai, B. Virlovet
- 4:25 **Tectonic Origin of Major Salt Accumulations in the Precaspian Basin:** G. Schoenborn, A. Abulkhassanova, S. F. Hiebert
- 4:45 **Loading-Driven Subsidence of Minibasins Into Salt:** M. G. Rowan

## Theme 1: Deep-Water Process Stratigraphy

Room 217 A

Co-Chairs: *D. Hoyal, T. M. Demko, and G. Gaillot*

- 1:15 **Introductory Remarks**
- 1:20 **Innovative Monitoring Captures the Passage and Impact of Submarine Canyon Turbidity Currents:** C. K. Paull, P. Talling, R. Gwiazda, K. Maier, S. Simmons, J. Xu, D. W. Caress, M. Wolfson-Schwehr, N. Nieminski, M. McGann
- 1:40 **Migrating Sediment Waves Formed by Turbidity Currents Along the Indian Northeastern Margin:** R. Ravindranathan, V. Kolla, P. Gupta, M. C. Mathur, N. Sinha, J. Imran
- 2:00 **Inception, Development, and Demise of Supercritical Bedforms in a Channel-Lobe Transition: Green Canyon, Abyssal Gulf of Mexico:** M. Santra, C. Olariu, D. Mohrig, E. Prokocki

- 2:20 **Autogenic Controls on Sediment Delivery to Submarine Lobes Revealed by Novel Time-Lapse Seafloor Surveys of a Highly Active Channel-Lobe System:** M. S. Heijnen, M. A. Clare, M. J. Cartigny, P. J. Talling, D. Lintern, C. Stacey, D. R. Parsons, J. E. Hughes Clarke, S. M. Hubbard, J. T. Eggenhuisen
- 2:40 **Refreshment Break**
- 3:25 **Autocyclic Modulation of Allocyclic Signals in Submarine Fans: An Experimental Study:** R. A. Ferguson, I. Kane, J. Eggenhuisen, F. Pohl, M. Tilston, Y. Spychala, R. Brunt
- 3:45 **Insights From Large-Scale Experiments: A New Depositional Model for Hybrid Beds Within Submarine Lobes:** E. Prokocki, D. Mohrig, J. Buttles, A. S. Pontén
- 4:05 **Characterizing the Roles of Sediment Concentration and Substrate Composition on the Properties of Basal Sandy Layers in Transitional Flow Deposits:** D. Mohrig, W. Koo, J. Buttles, A. Pontén, D. Sturmer
- 4:25 **Experimental Co-Deposition of Sand and Flocculated Mud From Moving Muddy Suspensions – Implications for Shale Sedimentology:** Z. Yawar, J. Schieber
- 4:45 **Recognition and Significance of 'Scour and Fill' Structure in Amalgamated Deep-Water Sandstones:** P. W. D. Haughton, A. J. Pulham

## Theme 2: Linked Systems of the Cretaceous Gulf of Mexico

Room 214 D

Co-Chairs: *R. M. Forkner and J. E. Dahl*

- 1:15 **Introductory Remarks**
- 1:20 **Impacts of Apto-Albian OAE on the Comanche Shelf, Central Texas:** R. M. Forkner, X. Sun, C. Kerans
- 1:40 **Ocean Chemistry and Hydrodynamics as Controls of Mud Production on Great Bahama Bank:** S. Purkis, A. Oehlert, P. Swart, T. Dobbelaere, E. Hanert, P. Harris
- 2:00 **Shelf-to-Basin Architecture and Facies Variability of a Cretaceous Intrashelf Basin in the Northwest Gulf of Mexico:** J. Sitgreaves, C. Kerans
- 2:20 **Establishing a High Resolution Integrated Stratigraphic Framework for the Berriasian to Early Barremian of the Morocco Atlantic Margin:** O. T. Bryers, L. G. Bulot, J. Jeremiah, M. A. Casson, D. Rehakova, M. Masrour, M. Ettachfini, M. Nahim, T. L. Lubert, J. Redfern
- 2:40 **Refreshment Break**
- 3:25 **New Model for Halokinetically Controlled Patch Reef Systems: A Case Study From the Fairway Field, a Major Aptian Reservoir in the East Texas Basin:** K. E. Hattori, R. G. Loucks, C. Kerans
- 3:45 **Stratigraphic Architecture of Isolated Cretaceous Carbonate Platforms: A Case Study From the El Doctor Platform, Central Mexico:** A. Eljalafi, C. Kerans

- 4:05** **Fault and Fracture Pattern Controls Hydrocarbon Accumulation: An Integrated Structural, Geomechanical, and Microscopic Study in the Northern Slope of the Tazhong Uplift in Tarim Basin, Northwest China:** F. Ning, J. Yun, Z. Zhang
- 4:25** **Carbonate Factory Recovery Following Oceanic Anoxic Events: A Closer Look at the Cow Creek Member of the Pearsall Formation in South Texas:** E. Pedersen, C. Kerans, T. E. Larson
- 4:45** **Sequence Stratigraphy of the Upper Cretaceous Austin Chalk Group in South and Central Texas:** C. M. Griffith, M. C. Pope, A. D. Donovan

## Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis

Room 214 A

**Co-Chairs:** T. Payenberg, B. Vakarelov, and C. Wu

- 1:15** **Introductory Remarks**
- 1:20** **Climatically Controlled Lacustrine Clinoforms: Theoretical and Modeling Results:** J. Zhang, C. Olariu, R. J. Steel, W. Kim
- 1:40** **Is Braided vs. Meandering a Valid Distinction?:** J. M. Holbrook, S. Allen

- 2:00** **Heterogeneity and Connectivity of Low Sinuosity Single Thread Channel Belts in Distributive Fluvial and Delta Plain Depositional Systems:** S. C. Lang, T. Payenberg, B. Ainsworth, A. S. Madof, H. W. Posamentier
- 2:20** **Automated Workflows for Reservoir Modeling, Can We Get There?:** J. R. Mullins, B. B. Nyberg, C. H. Eide, A. Comunian, P. Renard, J. Straubhaar, J. A. Howell
- 2:40** **Refreshment Break**
- 3:25** **Scenario Testing: Exploring Uncertainty Through Sketch-Based Modeling:** M. E. H. Pataki, C. Jacquemyn, M. D. Jackson, G. J. Hampson, J. D. Machado Silva, C. Coda Marques, F. de Carvalho, M. Costa Sousa, Z. Zhang, S. Geiger
- 3:45** **Evaluating Models for Cretaceous Paleodrainage and Sediment Routing Using Detrital Zircon U-Pb Provenance and Geochronology in the Colorado Front Range:** C. Nazworth, M. Blum
- 4:05** **Fluvial Architecture and Reservoir Modeling Along Strike Direction of the Trail Member of the Ericson Sandstone, Mesaverde Group in Wyoming:** A. A. Treviño, S. M. Hudson
- 4:25** **Drones and Detrital Zircons: A Paleogeographical Reconstruction of a Long-Lived Mega-Valley in the Ferron Sandstone, Utah:** D. Kynaston, J. P. Bhattacharya, W. A. Matthews



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## Theme 6: Induced Seismicity and Water Management

Room 213 A/B

Co-Chairs: *J. Lund Snee and A. S. Phelps*

- 1:15**     **Introductory Remarks**
- 1:20**     **The Geology of Active Earthquake Sequences in Texas:**  
P. Hennings, A. Savvaidis, J. Nicot, P. Eichhubl,  
C. R. Lemons, K. M. Smye, E. A. Horne, R. D. Dommissie,  
O. Callahan
- 1:40**     **Using InSAR Surface Deformation Measurements to Study the Potential Link Between Industry Operations and Earthquakes in the Delaware Basin of West Texas:**  
K. Pepin, H. Zebker, W. Ellsworth
- 2:00**     **Poroeleastic Models for Fault Reactivation in Response to Injection and Production: Application to an Earthquake Sequence Near Venus, Johnson County, Texas:**  
M. Haddad, P. Eichhubl, E. A. Horne, P. H. Hennings,  
C. R. Lemons
- 2:20**     **Seismicity Induced by Hydraulic Fracturing in the Central and Eastern United States:** M. R. Brudzinski, B. S. Currie,  
R. J. Skoumal, S. Fasola, R. Ries, T. Langenkamp,  
P. Friberg
- 2:40**     **Refreshment Break**
- 3:25**     **Controlling Fluid-Induced Seismicity During a 6.1-km-deep Geothermal Stimulation in Finland:** G. Kwiatek,  
T. Saarno, T. Ader, F. Bluemle, M. Bohnhoff, M.  
Chendorain, G. Dresen, P. Heikkinen, I. Kukkonen, P. Leary,  
M. Leonhardt, P. Malin\*, P. Martínez-Garzón, K. Passmore,  
P. Passmore, S. Valenzuela, C. Wollin
- 3:45**     **Treatment of Gray Water Using Zeolite:** N. Hammad
- 4:05**     **Fractured Bedrock Hydrogeologic Characterization Using Digital Rock Physics:** E. J. Goldfarb, L. Schmidt,  
K. Ikeda, O. Alamoudi, D. Rempe, N. Tisato
- 4:25**     **Geologic, Geographic, and Temporal Variations in Saltwater Disposal Practices Within the Permian Region, Texas and New Mexico, USA:** C. R. Lemons, G. McDaid,  
J. Acevedo, C. L. Breton, P. H. Hennings
- 4:45**     **The Importance of Pipelines in Water Management for Onshore Unconventional Development:** M. Dunkel

## MONDAY AFTERNOON POSTER SESSIONS

Exhibit Hall 2:00 pm–5:00 pm

(Presenters will be in their booths 2:30 pm–4:00 pm)

## Theme 5: Analytical Techniques for Unconventional Reservoirs

Chair: *N. A. Wilke*

- P2**     **Uses of Satellite Image, Magnetic, and Gravimetric Analysis for Early Identification of Fault Reactivation Risk – Application to Utica Field, Ohio:** J. Uzio,  
A. Bertoncello, F. Brigaud, R. Wagner
- P3**     **Modeling Stimulated Rock Volumes Using DPK Approach Coupled With Rock Mechanics:** J. H. Deng,  
Z. Chen
- P4**     **Determining the Mineralogy of Sedimentary Rocks From Bulk Geochemical Analysis and Chemofacies Modeling:**  
I. McGlynn
- P5**     **Controls on Mudrock Pore System Development in the Upper Mississippian Barnett Shale, Fort Worth Basin, Wise County, Texas:** R. M. Reed, R. G. Loucks, H. D. Rowe
- P6**     **A Comparison of XRD Mineralogical Variability and Techniques With Proxy Approaches to Defining Mineralogy and Rock Type: Examples From the Wolfcamp-Dean-Spraberry Succession of the Northern Midland Basin:** H. Garza, G. Torrez, T. Moherek, H. Rowe,  
P. Mainali
- P7**     **Chemostratigraphy of the Woodbine and Eagle Ford Groups, Brazos Basin, Texas:** M. J. Meyer, M. C. Pope,  
A. D. Donovan
- P8**     **Sweet-n-Sour: Application of the Wellsite Mass Spectrometer in 3-D Unconventional Resource Development:** D. A. Wavrek, S. Field
- P9**     **Characterizing the Development of North American Source Rock Reservoirs From the Ordovician-Jurassic: A Proxy-Based Multivariate Geochemical Approach:**  
. R. Ritzer, E. A. Sperling
- P10**     **Finding Extra Value in Elemental Concentration Data: A Mudrock Mineral Model for the Duvernay Formation Unconventional Reservoir:** L. J. Knapp, T. Nanjo,  
T. Hattori, O. Haeri Ardakani, H. Sanei
- P11**     **Evidence for Sediment-Hosted Lead-Zinc Deposits Indicating the Extension of the Colorado Mineral Belt, Northern DJ Basin, Colorado:** T. Inks, A. Rowe\*, B. Burke
- P12**     **Pore Characterization of Bakken Shales (Mississippian-Devonian) in the Williston Basin:** C. Onwumelu,  
S. H. Nordeng

## Theme 9: New Global Exploration and Play Concepts

Co-Chairs: A. Scardina and R. Levey

- P13** Seismic Stratigraphy and Hydrocarbon Prospectivity in the Northern Sector of the North Falkland Basin, South Atlantic: D. Jones
- P14** Failures and Successes Along With the Emergence of Gas-Rich Deep Bozhong Depression in Cenozoic Lacustrine Rift Bohai Bay Basin: J. Wang, C. Niu, D. Lv, Q. Wang, F. Wang
- P15** Stratigraphy and Facies of the Hue Shale in Northern Alaska: Evidence for a Viable Continuous Resource Play in an Emerging Basin: K. J. Whidden, R. O. Lease, J. A. Dumoulin, P. J. Botterell (Jarboe), C. DeVera, W. A. Rouse
- P16** Portugal Prospective Petroleum Basins, Offshore Edge of Iberia Peninsula: R. Fainstein, R. Pena dos Reis, B. Duarte, N. Pimentel
- P18** Evaluating the Response of Geothermal Reservoirs in the Cheshire Basin: A Parameter Sensitivity Analysis: C. S. Brown, N. Cassidy, S. Egan, D. Griffiths
- P19** Geothermal Reservoir Characterization of the South Swan Hills Reef Complex, Swan Hills, Alberta: C. Noyahr, J. A. Weissenberger, N. B. Harris, J. C. Banks
- P20** Plays Prospectivity and Exploration Direction of Pre-Salt Section in South Gabon Basin, West Africa: Y. Rao, H. Yang
- P21** Real-Time Mapping, In-Situ Analysis, and Sampling of Hydrocarbons With Underwater Vehicles: J. Gharib, L. Baksmaty, B. King, D. Lavallee, G. Sharman
- P22** Arkoma: Uncovering Its STACKed Pay Potential: D. A. Yee, G. Johnston, S. Ahmed, J. Levesque, J. Wakter
- P23** Exploration Practice of Subtle Reservoirs in Slope Zone of Shaleitian Uplift in Bohai Bay Basin: Y. Wei, M. Peng, L. Yanlai, B. Lien, Y. Qian
- P24** A Viable Alternative of the Energy in the Production of Coalbed Methane in Mozambican Coal Basins: A. E. A. Macie, D. Peyerl\*, E. Moutinho dos Santos, D. D. L. C. Bacci
- P25** Updated Lithological, Biostratigraphic, and Thermal Alteration Data for the Lower Paleozoic, Offshore Labrador, Canada: N. Bingham-Koslowski, M. A. Miller, T. McCartney

## Theme 7: Integration of Geology and Geophysics

Co-Chairs: J. Behura and R. Michelena

- P26** Study of Seismic Anomalies in the Frequency Spectrum as a Hydrocarbon Reservoir Characterizer: A. J. Pelayo Nava, I. Omaña
- P27** Estimation of 3-D Confidence Index for Consistent Integration of Seismic Data Into Reservoir Models: P. Nivlet
- P28** Post-Stack Seismic Characterization of Pore Structure Variations for Predicting Permeability Heterogeneity in Deeply-Buried Carbonate Reservoirs, Puquang Gas Field: J. Guo, Y. Sun

- P29** Application of Bayesian Stochastic Inversion Based on Frequency Divisions Reconstruction in Reservoir Prediction: P. Zhang, H. Chen, B. Ren, F. Li
- P30** Pre-Messinian Tight Reservoir Characterization – Western Nile Delta, Egypt: T. Kurniawan, H. Farhana Hasnan\*, M. Wahab, W. S. Prasetyotomo, C. Brizer, A. Mannini
- P31** Inversion Case Studies From the SCOOP and STACK Areas in the Anadarko Basin: S. Chopra, R. K. Sharma, J. Keay
- P32** Seismic Azimuthal Anisotropy Analysis Applied to Natural Fracture Intensity and Azimuth Prediction: Barnett Shale Example: J. Zhang, J. Qi, R. M. Slatt, K. J. Marfurt
- P33** Integration of Geomechanical Modeling and Seismic Data to Predict Pore Pressure and Stress in Complex Subsurface Settings: M. Heidari, M. Nikolinakou, P. B. Flemings
- P34** High Resolution Seismic Sequence Stratigraphy of the NPRA, North Slope, Alaska: S. Berg

## Theme 1: Circum-Gulf of Mexico Clastic Systems

Co-Chairs: C. Pirmez, C. M. Crescini, and O. C. Mata

- P35** Wilcox Chronostratigraphic Framework: Update 2019: L. Zarra, R. A. Hackworth, A. C. Kahn
- P36** Realistic Sequence Stratigraphy in the Deep-Water Gulf of Mexico Using High Resolution Borehole Images: A. Kumar, J. Herrera, E. Ruiz, W. W. Xu, W. Cantwell
- P37** Evolution of the Paleogene Wilcox Group Yoakum Canyon and Linking Gulf of Mexico Margin Submarine Canyons to Regional Tectonics: C. Olariu, C. A. Clayton
- P38** Abrupt Climate Change Superimposed on Long-Term Tectonic Control on Paleogene Gulf of Mexico Depositional Systems: J. Zhang, J. Xu, J. A. Covault, A. M. Hessler, G. Sharman, W. A. Ambrose, D. Stockli
- P39** Tertiary Provenance and Infilling Evolution of the Veracruz Basin, Mexico: R. Torres, M. Martínez-Medrano, U. Hernandez-Romano
- P40** Modern and Ancient Sediment Waves in the Deep-Water Campeche Basin, Offshore Southern Mexico: Contourites or Turbidites?: R. R. Winter
- P41** Miocene Current-Modified Submarine Fans in Mexican Deep-Water Areas: L. E. Arce Perez, J. W. Snedden
- P42** Lessons for Modeling and Production—Integrated Reservoir Characterization of a Deep-Water Channel Levee System at Horn Mountain Field, Gulf of Mexico: A. Barclay, C. Carvajal, S. Morris, M. Mayo, T. G. Arriola, W. Partridge
- P43** Mesozoic-Cenozoic Detrital Record of the Circum-Gulf of Mexico: Implications for Clastic Reservoir Quality Assessment: J. I. Guzman, J. D. Clark, A. Fildani, T. Gerber

## Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture

Co-Chairs: C. Olariu, J. Zhang, and V. M. Rossi

- P44 Development of High-Energy, Tidally Modulated, Barred Shoreface Deposits: Kimmeridgian-Tithonian Sandstones, Weald Basin, Southern United Kingdom, and Northern France:** L. Angus, G. J. Hampson\*, F. Palci, A. J. Fraser
- P45 Time Stratigraphy of River-Dominated Delta Deposits:** B. J. Willis, T. Sun, R. Caldwell
- P46 Predicting Reservoir Connectivity Within Ancient Coastal Plain Systems During Exploration, Appraisal and Development – Pitfalls and Best Practices:** D. Harazim, P. K. Pedersen, A. Zappi, O. Guevara, E. C. Velarde Figueroa, I. Hernandez Rivera, S. M. Chavez Morales, R. Torres Vargas
- P47 Facies Variability in Deltaic Systems of Katjesberg, Tanqua Karoo:** E. J. Reat, C. L. Johnson
- P48 Coarse, Well-Sorted, and Cross-Bedded Sandbodies Associated With Shelf Transgression, Jurassic Lajas Formation, Neuquén Basin:** E. Jung, R. J. Steel, C. Olariu
- P49 Predicting Reservoir Quality Distributions in Storm-Dominated Shoreface and Delta Environments of a Highstand Systems Tract, Lower Cretaceous Viking Formation, Crossfield Area, Alberta, Canada:** N. Díaz, J. MacEachern, S. Dashtgard
- P50 Quantitative Characterization of the Architecture of Shallow-Marine Clastic Parasequences: Applications to Reservoir Studies:** L. Colombero, N. P. Mountney
- P51 Mixed Tidal-Wave Processes in a Growth-Fault Controlled Outer Shelf Conduit Near the Pliocene Orinoco Shelf-Edge:** S. Chen, R. J. Steel, C. Olariu, J. Zhang, A. Osman
- P52 Comparative Analysis of Internal Characteristics of Delta Front Deposits of the Loyd Sandstone (Campanian) Near Rangely, Colorado, Panther Tongue of the Star Point Formation, Helper, Utah, and Lower Sego Near Floy Canyon: Controls Versus Reservoir Properties:** P. P. Flaig, S. T. Hasiotis, T. Prather
- P53 Local-Scale (<2km), Sedimentary Architecture and Depositional Process Variability of a Mudstone-Dominated Shelf Succession, Book Cliffs, Utah:** R. M. Hamlyn, K. Boulesteix, K. G. Taylor, S. S. Flint, R. Jerret

## Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture

Co-Chairs: C. Olariu, J. Zhang, and V. M. Rossi

- P54 Sub-Seismic Scale Architectural Characterization of Incised Valley-Fill Successions in the Upper Carboniferous Strata of the United Kingdom Offshore: Insights From the Spireslack Sandstone, Scotland:** J. N. Bilton, A. Mitten\*, S. M. Clarke, G. A. Leslie, L. Howell, R. Pettigrew, T. Cain
- P55 Cryptic Sequence Boundaries in an Ancient Offshore Mudstone-Dominated Succession: The Upper Cretaceous Mancos Shale Formation, South-Central Utah:** Z. Li, J. Schieber
- P57 The Continental Shelf as a Sedimentary Conveyor or Filter? The Role of Topset Process Regime in Controlling Sediment Distribution Patterns in Clinotherms:** G. Cosgrove, D. M. Hodgson, M. Poyatos-Moré, N. Mountney, W. McCaffrey
- P58 Building a Predictive Model for Stratigraphic Transitions and Lateral Facies Changes in the Cretaceous Almond Formation, Wyoming:** J. Phillips, S. M. Hudson, B. W. Greenhalgh
- P59 Early Miocene High Island Delta System, Offshore Texas and Louisiana:** M. I. Olariu, M. DeAngelo, D. B. Dunlap, R. H. Trevino
- P60 Lithofacies Features and Organic Geochemistry of Salt Marsh-Shallow-Marine Deposits in the Middle Mandano Formation, a Middle Pleistocene on the Boso Peninsula, Japan:** Y. Shimano, S. Takaoka, M. Ito
- P61 Deltaic Sedimentation and Stratigraphy of the Late Cretaceous Frontier Formation in the Southeast Bighorn Basin, Wyoming:** S. Mullen, D. Elmore
- P62 Sedimentological Signatures of Paleogene in Lishui Sag, East China Sea Shelf Basin:** Z. Sun

## Theme 3: Source Rock Depositional Environments I

Co-Chairs: T. E. Larson, J. Knapp, and M. N. Johnston

- P64 Upper Cretaceous Source Rock Distribution, Richness, Thermal Maturity, and Petroleum Generation History, Sirt Basin, Libya:** K. A. Albriki, F. Wang\*, L. Meijun, R. El Zarog, E. Ul Haq
- P65 To Deep-Water Sergipe Basin and Beyond: Q&A From Integrated Geoscience Investigations of Oils From Recent Wells:** W. G. Dickson, C. F. Schiefelbein
- P66 Source-Rock Evaluation of the Lower Cretaceous Pebble Shale Unit, Northern Alaska:** D. A. van der Kolk, M. T. Whalen, M. Wartes, R. A. Garrard, K. Bird
- P67 Rapid Characterization of Strata in the Delaware Basin by FTIR Modeling:** J. Grant, C. Xiao, G. Torrez, H. Garza
- P68 Organofacies Variability as a Function of Provenance and Process – Heterogeneity Within the Mowry Shale, Wyoming:** B. J. Steeves, S. M. Hudson



- P69** **Application of Optical Microscope and SEM to the Organic Matter Identification in the Permian Lucaogou Formation of the Jimsar Sag, Junggar Basin, Northwest China: An Implication for the Depositional Environment:** Y. Su, M. Zha, X. Ding, J. Qu
- P71** **Formation Mechanism of High-Quality Lacustrine Source Rocks in the Bozhong Depression:** W. Liu, Z. Wang, L. Ye, X. Wang, S. Liu
- P72** **A Novel Geochemical Concept for Predicting Source Rock Organofacies: Implications for Conventional and Unconventional Resources Initial Assessment:** B. I. Ghassal, R. Littke

### Theme 3: Source Rock Depositional Environments II

**Co-Chairs:** T. E. Larson, J. Knapp, and M. N. Johnston

- P73** **Formation and Characteristics of the Cryogenian High-Quality Source Rock, South China:** T. Li
- P74** **Hydrocarbon Generative Potential of Oligocene Oil Shale Deposit at Onshore Penyu Basin, Chenor, Pahang Malaysia:** Y. M. Makeen Ahmed
- P75** **Petrographic and Spectroscopic Characterization of Boquillas Formation Samples Before and After Hydrous Pyrolysis: Implications for Storage Capacity and Expulsion Characteristics:** J. E. Birdwell, A. Jubba, B. Valentine, A. Boehlke, J. Hatcherian, P. C. Hackley
- P76** **Organic Carbon in Deep-Marine Levees as a Possible Driver of Neoproterozoic Atmospheric and Oceanic Conditions, Windermere Supergroup, British Columbia, Canada:** C. M. Cunningham, B. Arnott
- P77** **Petroleum Properties and Thermal History of Taylor-Navarro Group Constrain Petroleum Migration in Maverick Basin, South Texas:** C. A. Doolan, W. Craddock, M. L. Buursink, M. Merrill, J. Hatcherian
- P78** **A Revolution in Applied Petroleum Geochemistry Fostered by Diamondoids:** J. M. Moldowan, J. E. Dahl
- P79** **Charging of LD29 Oil Field on the Southern Lope Belt of Liaodong Depression From Multiple Lacustrine Source Rock Intervals and Generative Kitchens, Bohai Bay Basin, China:** D. Tian, C. Niu, W. Pan, R. Zhang, K. Wu
- P80** **Re-Os Geochronology and Tracer Studies for Petroleum Exploration-Starting Materials to Construction of Whole Petroleum Systems:** H. J. Stein, J. L. Hannah
- P81** **Biogenic Gas Generation Process: Application to the Bay of Biscay: Data Integration and Basin Modeling:** M. Torelli, I. Kowalewski, R. Traby, M. Roger, S. Dupré, M. Cretu, E. Deville

### Theme 4: Global Perspectives on Extensional Deformation

**Co-Chairs:** T. E. Heaton and L. Sanchez

- P82** **Structural and Geodynamic Modeling of the Influence of Granite Bodies During Lithospheric Extension: Application to the Carboniferous Basins of Northern England:** L. P. Howell, S. S. Egan, G. Leslie, S. M. Clarke
- P83** **Crustal Architecture Variability on Passive Margins:** M. Gouiza, P. J. Markwick\*, D. A. Paton
- P84** **Reducing Exploratory Risks Using Advanced Basin Modeling in a Complex Structural Setting – A Case Study From Pará-Maranhão Basin – Brazilian Equatorial Margin:** F. Nascimento, A. Thebault, M. Callies, M. Karam, E. D. Mio\*
- P85** **New Insights Into Atlantic Opening From the Bay of Biscay:** E. Butler, D. A. Paton\*, P. Markwick, N. Hodgson
- P86** **The Role of Tectonic Inheritance in the Tectonic Evolution and Breakup of the Atlantic and Arctic Oceans:** B. Ady, R. Whittaker\*
- P87** **Carboniferous Graben Structures, Evaporite Accumulations, and Inversion in the Southeastern Norwegian Barents Sea:** M. Hassaan, J. Faleide, R. Helge Gabrielsen, F. Tsikalas
- P88** **The Control Interaction of Extension and Strike-Slip on the Structure Characteristics in the Liaodong Bay Depression:** W. Li, X. Chen, Z. Wu, D. Zhou, K. Wu, R. Guo
- P89** **Quantitative Subsidence Analysis of the South-East of the Mesopotamian Basin, Southeastern Iraq: Implications for Basin Evolution Since the Middle Jurassic Period:** L. K. Al-Madhachi, S. M. Clarke, S. Egan
- P90** **Structural and Resource Assessment of XX Field, Onshore Niger Delta:** A. Abegunrin

### Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data

**Co-Chairs:** V. K. Sun Chee Fore, K. Bayer, and T. D. Demchuk

- P91** **An Integrated Approach to Reserve Addition: Success Case Scenarios From a Niger Delta Asset:** B. Matthew, O. C. Ajayi
- P92** **Integration Adds Value to Deep Water Oil Exploration and Development: A Case Study of North Gulf of Mexico From Seismic and Well Log to Simulation:** W. W. Xu, D. Shsn, A. Kumar, L. Chen, J. Canas, R. Hayden, O. Mullins, B. E. Winkelman, T. Wilkinson, J. Meyer
- P93** **Integrating WAZ and Potential Field Data for Salt Interpretation – A Case Study From Southern Gulf of Mexico:** E. Medina, S. Panepinto, S. Re, L. D. Masnaghetti, S. Ratti, L. De Luca
- P94** **Integrated Case Study From Reservoir Characterization to Improved Well Performance Evaluation in Abnormal HPHT Tight Gas Reservoir:** S. Guo, H. Z. Jie, Y. Gao, C. Ming, B. Gao\*, C. H. Min, L. Bo, C. J. Chao, L. H. Geng, Z. Wei

- P95** The Challenges Brought by Oilfield Development Methods to Geological Modeling: Big Data Paradox and Modeling Strategies Based on Horizontal Wells Data: H. Wensong
- P86** Quantifying the Impact of Well Spacing on Bakken Production: A Multivariate Study: P. Rutty
- P97** Visualizing the Microbiotic Response With Other Subsurface Data to Further Understand the Opening of the Gulf of Mexico and the Resulting Petroleum System: R. D. Weber, B. Parker, T. D. Demchuk, J. A. Edmunds
- P98** Hydrocarbon Charge History and Paleo Oil Reservoir Restoration in Anyue Cambrian Gas Field in Sichuan Basin: Detailed Evidence From Fluid Inclusions and Quantitative Grain Fluorescence: X. Ma, S. Liu, X. Lu, J. Fan, H. Tian, T. Zhang
- P99** Data-Driven Analysis of Complex Hydrocarbon Accumulations in Fractured-Vuggy Reservoirs: Making Decision Based on Facts Rather Than Previous Experiences: F. Tian, X. Luo, H. Yang, S. Li, C. Shen, W. Pan, W. Zhang, S. Yin, R. Pei, Z. Wang
- P100** Architecture of Buried Volcanoes as a Factor in Petroleum Systems Analysis: Cases from New Zealand Basins: A. P. Bischoff, J. M. Beggs\*, A. Nicol

## Theme 1: Reservoir Quality and Rock Property Trends

Chair: C. Oleriu

- P101** Stratigraphic Control on Oil Field Performance in Clastic Reservoirs of the Norwegian Continental Shelf: K. A. S. Aliyuda, J. A. Howell, A. J. Hartley
- P102** Investigation of Secondary Dissolution Pores and Its Diagenetic Control on the Reservoir Properties of Gas Bearing Neogene Sandstones in the Bengal Basin, Bangladesh: L. Y. Khondakar, M. B. Imam
- P103** Origin and Enrichment of Diagenetic Calcite in Upper Triassic Xujiahe Sandstones, Northeastern Sichuan Basin: L. Zhang, W. Wang, Z. Shu, H. Zou
- P104** Characteristics and Origin of the Carbonate Cements in Sandstone Reservoir under Multi-episode Oil Entrapment: A Case Study From the Eocene Shahejie Formation, Chexi Sub-sag, Bohai Bay Basin, China: S. Yin, S. He

## TUESDAY MORNING ORAL SESSIONS

### SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record

Hemisfair Ballroom I

Co-Chairs: J. A. Covault, A. Fildani, and K. Gomez

See page 20 for more information on this special session.

- 8:00** Introductory Remarks
- 8:05** Carbon Sequestration Through Time and Its Role as an Overlooked Driver of Earth's Long-Term Climate History: K. D. Bergmann, N. Boekelheide, A. B. Jost, M. Cantine, T. Mackey
- 8:25** Tracking Anoxia in Ancient Oceans: Potential and Limitations of Paleoredox Proxies in Carbonate Rocks: K. V. Lau, D. S. Hardisty, B. C. Gill, T. W. Lyons
- 8:45** Understanding Muddy Sedimentary Strata on Continental Margins: Significance, Knowledge Gaps, and One Perspective on What We Need for the Future: S. J. Bentley
- 9:25** Refreshment Break
- 10:10** Towards a Better Understanding of Architecture and Pore-Space Distribution in Clastic Sediments and Rocks: Studying Sedimentary Systems Using Simple Stratigraphic Forward Models: Z. Sylvester
- 10:30** Improving Subduction Zone Hazards Assessments Using the Coastal Stratigraphic Record: T. Dura
- 10:50** Sedimentology in Fifty Years: J. B. Thurmond

### Theme 5: Permian Basin Unconventionals

Room 217 B/C

Co-Chairs: P. R. Grossi and J. S. Hnat

- 8:00** Introductory Remarks
- 8:05** 3-D Structural and Kinematic Model of the Delaware Basin and Surrounding Structural Blocks for Application in Understanding Recent Seismicity: E. A. Horne, P. H. Hennings, C. K. Zahm
- 8:25** Seismic Geomorphology of Permian Shelf Margin, Slope, and Basin in the Northern Delaware Basin: X. Janson, B. J. Price, C. K. Zahm, J. A. Covault, R. D. Dommissie, D. B. Dunlap
- 8:45** Paleo Overpressure in the Delaware Basin Determined From DST, Resistivity, and Mud Logs: M. L. Van Der Loop
- 9:05** Quantitative Interpretation Workflow for Unconventional Reservoir Characterization in the Delaware Basin: Y. Del Moro, V. Anantharamu, A. Mur, L. Vernik, A. Quaglia, E. Carrillo
- 9:25** Refreshment Break
- 10:10** Relating Natural Fractures and Fluid Migration in Permian Basin Horizontal Wells: Ideas for Completion Optimization: J. Harrington, B. Lary, W. Eymold, C. J. Whyte, J. Moortgat, E. L. Frost, T. Darrah

- 10:30** Controls of Lithology Stacking Patterns on Variations in Oil Saturation, Wolfcamp A, Delaware and Midland Basins: T. Zhang, X. Sun, L. T. Ko, P. C. Hackley
- 10:50** Emerging Permian Plays: Revival on the Rim: B. Davies, D. Koo
- 11:10** Continuous, Thin-Bedded Sandy Deep-Water Lobe Deposits – A Case Study From the Lower Permian Dean Formation, Midland Basin, West Texas: L. Liu, S. Hamlin, W. A. Ambrose
- 11:30** U.S. Geological Survey Assessment of Undiscovered Petroleum Resources in the Wolfcamp Shale and Bone Spring Formation of the Delaware Basin, Permian Basin Province, Texas and New Mexico: S. B. Gaswirth

## Theme 2: Depositional Models for Carbonate and Evaporite Systems

Room 217 D

Co-Chairs: F. Whitaker and J. M. Rivers

- 8:00** Introductory Remarks
- 8:05** Are Carbonate Barrier Islands Mobile?: J. M. Rivers, R. W. Dalrymple
- 8:25** From Grain to Flume Tank: Analyzing the Hydrodynamic Behavior of Carbonate Sediments: J. J. Reijmer, A. Sliotman, M. de Kruijf, R. de Boer, J. Kranenburg
- 8:45** Influence of Inundated Erosional Landscapes in Localizing Coarse-Grained Heterozoan Carbonate Reservoir Facies: I. P. Thompson, R. H. Goldstein, E. K. Franseen
- 9:05** Ooids as Archives of Past Conditions: P. M. Harris, M. Diaz, G. P. Eberli
- 9:25** Refreshment Break
- 10:10** 87Sr/86Sr Isotope Ratios as a Tool for Stratigraphic Correlations in Pre-Salt Carbonates, Santos Basin, Offshore Brazil: M. Obermaier, J. Amthor, A. J. Barnett, E. Manzo, E. W. Adams
- 10:30** Integrated Digital Outcrop Modeling of a Large-Scale Carbonate Slope System: The Upper Cretaceous-Paleocene Ionian Basin of Albania: J. Le Goff, J. Reijmer, A. Sliotman, J. Jaballah, E. Dujoncq
- 10:50** The Flooding of a Carbonate Platform: The Eastern Yucatán Platform as a Model for Transgressive Carbonates: V. P. Wright, N. H. Platt
- 11:10** Optimizing Subsurface Predictions in a Mississippian Carbonate Field, Central Alberta, Canada – Part 2: P. Bauman, C. Barton
- 11:30** Facies, Sedimentary Characteristics, and Seismic Geometry of a Carbonate Delta Drift (Miocene, Maldives, Indian Ocean): C. Betzler, T. Lüdman, J. Reolid

## Theme 4: Compressional Environments: Trap to Basin

Room 214 B/C

Co-Chairs: D. Quinn and J. F. Flinch

- 8:00** Introductory Remarks
- 8:05** Evolution and Plays of the Banda Arc: P. W. Baillie
- 8:25** Character of the Caribbean Crust Revealed: Initial Observations of New and Reprocessed Seismic Data: K. R. Reuber, J. L. Pindell, A. Goswami, C. Campbell, A. V. Bliss, B. W. Horn
- 8:45** Structural Restoration of Cretaceous Inversion Events in the Bjørnøyrenna Fault Complex, Western Barents Shelf: M. F. Miraj, C. Pascal, J. Faleide, R. Gabrielsen
- 9:05** Using Quantitative Characterization of Strike-Slip Restraining Bends to Predict Hydrocarbon Accumulation – A Case Study From Liaodong Bay Segment, Tan-Lu Fault Zone, East China: Y. Liu, X. Huang, K. Wu
- 9:25** Refreshment Break
- 10:10** Transforming the Transform: Insights Into the Tectonostratigraphic Development of the Ghanaian Transform Margin From Newly Acquired Long-Offset Reflection Seismic Data: K. G. McDermott, N. Hurst, S. Patruno, P. Bellingham
- 10:30** Structural Evolution of La Florida Anticline and Petroleum System in a Foreland Fold Belt, Eastern Cordillera Foothills, Colombia: Z. Albeshier, J. N. Kellogg, I. Hafiz, E. M. Saeid
- 10:50** Structural Characteristics of Ultra-Deeply Buried Structures in the Northern Longmen Shan Fold-Thrust Belt, Sichuan Basin, China: H. Liang, L. Long, Q. He, Q. Ran, G. Di, X. Chen, Y. Zhang, R. Liu, G. Xu
- 11:10** Structural Evolution of Kohat Potwar Fold Thrust Belt of Pakistan: H. Ghani, E. Sobel, G. Zeilinger, J. Glodny, S. Zapata, I. Irum
- 11:30** Shear-Enhanced Compaction Folds: A New Class of Folds Interpreted From Observations in the Colombian Basin, Caribbean Sea: S. J. Wilkins, J. R. Jacobs, D. M. Jones, T. D. Waller

## Theme 1: Source to Sink

Room 217 A

Co-Chairs: B. Romans, B. Dixon, and R. J. Steel

- 8:00** Introductory Remarks
- 8:05** The Conversion of Tectonic and Climatic Forcings Into Stratigraphic Signals of Sediment Supply and Provenance: G. R. Sharman, Z. Sylvester, J. A. Covault
- 8:25** From Quantitative 3-D Seismic Stratigraphy to 3-D Sequence Stratigraphy: Insights Into the Vertical and Lateral Variability of Basin-Margin Depositional Systems at Different Stratigraphic Orders: V. Paumard, J. Bourget, B. Ainsworth, T. Payenberg, A. D. George, S. Lang



- 8:45 A Big Fan of Signals? Exploring Autogenic and Allogenic Processes in Lobyte3D, a Numerical Stratigraphic Forward Model of Submarine Fan Development:** P. Burgess, I. Masiero, S. Toby, R. Duller
- 9:05 Sediment Volume Partitioning Into Deep Water and its Implications to Continental Margin Building:** J. Zhang, W. Kim, C. Olariu, R. J. Steel
- 9:25 Refreshment Break**
- 10:10 Climate and Bedrock Controls on Sediment Supply to the Paleogene Gulf Coast, Texas, USA:** A. M. Hessler, J. Zhang, J. A. Covault, W. A. Ambrose
- 10:30 Provenance and Morphology of Extensive Oligocene-Miocene Deep-Water Fan Systems Sourced From Chiapas-Veracruz and Sierra Madre Oriental, Gulf of Mexico:** J. D. Clark, J. A. Ochoa, D. F. Stockli, A. Fildani, T. Gerber, J. A. Covault, J. I. Guzman, J. S. Vinnels, J. Marshall
- 10:50 Sediment Routing From Shelf to Basin Floor in the Quaternary Golo System of Eastern Corsica:** M. L. Sweet, G. T. Gaillot
- 11:10 The Berbice Valley and Canyon System of Guyana: A Cross-Shelf Incised Feeder of Giant Cretaceous Age Deep-Water Fans:** L. J. Wood, O. Ugwu-Oju, S. Cardona
- 11:30 Sediment Storage and Recycling in the Supply of Sand to the Indus Submarine Fan, Arabian Sea:** P. D. Clift, Y. Li, P. Zhou, P. O'Sullivan, D. Stockli

## Theme 3: Hydrocarbon Migration and Charge Risk Assessment

Room 214 D

Co-Chairs: D. Herrera, D. B. Palmowski, and J. E. Little

- 8:00 Introductory Remarks**
- 8:05 Scaling Petroleum Migration Using Oil Tracers: Models and Experiments to Assess the Oil Migration Timing and Distance:** C. Sandu, I. Al Atwah, K. R. Aroui
- 8:25 Suppression of Vitrinite Reflectance by Bitumen Generated From Liptinite During Hydrrous Pyrolysis of Artificial Source Rock:** K. E. Peters, P. C. Hackley, J. J. Thomas, A. Pomerantz
- 8:45 A Geochemical Appraisal of the Potential Source(s) of Oils in the STACK and SCOOP Plays in the Anadarko Basin, Oklahoma:** P. Philp, C. Symcox
- 9:05 Petroleum Systems Analysis in the Santos Basin: New Risks in the Extension of the Pre-Salt Play?:** M. Lawson, J. Sitgreaves, J. Stewart, S. E. Gelman, S. P. Becker, P. H. Figueredo, C. A. Johnson, G. D. Karner, A. Muhammad, J. D. Shoffner
- 9:25 Refreshment Break**
- 10:10 Estimating Hydrocarbon Column Heights Based on Seal Capacity:** R. E. Swarbrick, R. W. Lahann, S. O'Connor
- 10:30 Using Stochastic Charge Modeling Techniques to Understand Oil and Gas Column Uncertainties:** O. Sylta, A. Tommeras, M. Daszinnies, N. Manoharan

- 10:50 Integration of Basin Modeling and Geomechanics for Stress and Fracture Prediction – A Case Study From the Lower Magdalena Valley Basin (Colombia):** C. I. Guerra, J. C. Hidalgo, A. Henk
- 11:10 Naturally Occurring Underpressure – A Global Perspective:** T. C. D. Birchall, R. E. Swarbrick, K. Senger
- 11:30 Thermal Regime Deep-Water Sergipe and Potiguar Ceara Basins Brazil Related to Fracture Zones, Active Faults, and Volcanic Activity; Observations From Wells and Seismic Data Applied to Petroleum Systems Modeling:** F. Mosca, N. Bruder, H. T. Aasmayr, T. J. Godo, C. Moss, B. LeCompte, H. Upshall

## Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data

Room 214 A

Co-Chairs: V. K. Sun Chee Fore, K. Bayer, and T. D. Demchuk

- 8:00 Introductory Remarks**
- 8:05 Lineage Metadata as a Critical Component of Data Trustworthiness for Subsurface and Analytics Applications:** P. Neri
- 8:25 A Multidisciplinary Approach to Unlocking the Key Drivers in the Midland Basin:** D. Law
- 8:45 Integration of Geoscience and Engineering Disciplines: An Example From Permian Basin Legacy Oil Fields:** D. M. Duran, D. Smith, D. Nguyen
- 9:05 Multidisciplinary Characterization of the PETM Hyperthermal Event in Central Texas: Palynology, Isotope Chemistry, and Sedimentology:** T. D. Demchuk, C. Denison, K. Gardner, M. Stephenson, J. O'Keefe
- 9:25 Refreshment Break**
- 10:10 Accurate Age Control in Clastic Deep-Water Depositional Systems From Multidisciplinary Chronostratigraphic Analysis:** E. Szymanski, R. Hackworth, J. Hearon, A. Kahn, L. A. Febo, A. C. Gary
- 10:30 Inter-Disciplinary Data Integration for Completions Optimization:** A. Popescu, I. Kuvaev
- 10:50 Recovery Factor Geo-Cellular Tool: A Simple Digital Testing Workflow:** O. Dada, S. Bayer, V. Muralidharan, J. Stewart, E. Rosen
- 11:10 A Multi-Disciplinary Workflow to Achieve the Largest, Seamless, High-Quality Presalt Image in Santos Basin, Brazil:** S. Arasanipalai, P. Ollagnon, H. D. Lebit, J. Tilton, B. Virlovet
- 11:30 Assessment of Geomechanical Impacts on Breccia Pipes in Underground Potash Mining With Brine Injection Operations:** R. Alcalde, B. Nemeth, B. Shrestha, E. Araujo

## Theme 6: Sustainability and Carbon

Room 213 A/B

Co-Chairs: V. Nuñez and K. Carter

- 8:00** **Introductory Remarks**
- 8:05** **Midwest Regional Carbon Sequestration Partnership: Findings From the Michigan Basin Phase III Injection Test Monitoring Program:** M. Kelley, L. Cumming\*, A. Conner, N. Gupta
- 8:25** **Opportunities for Offshore CCS in the Gulf of Mexico:** T. A. Meckel, R. H. Trevino, S. D. Hovorka
- 8:45** **High-Resolution Subsurface Mapping of Depositional Cycles Within the Lower Part of the Huron Member of the Ohio Shale: Detailed Snapshots of Basin Development in Central and Eastern Ohio:** C. Waid
- 9:05** **Regional Characterization of an Oil-Bearing Reef Complex for Factors Affecting Assessment of Associated CO<sub>2</sub> Storage:** A. Haagsma
- 9:25** **Refreshment Break**
- 10:10** **Evaluation of Offshore Reservoirs for Potential Carbon Sequestration Through an Integrated Basin Analysis – Seismic Stratigraphic Approach: Example-Mid Atlantic USA:** J. D. Pigott, R. Zhai, K. Pigott, M. Rossi, C. Schlosser, A. Parent, N. Ripepi
- 10:30** **Geologic Framework of an Anthropogenic Carbon Capture and Sequestration System at the Kemper County Energy Facility, East-Central Mississippi:** C. L. Wethington
- 10:50** **What Have We Learned After 20 Years of Carbon Capture and Storage Research in the Illinois Basin?:** H. E. Leetaru, C. Korose
- 11:10** **Time-Dependent Supercritical-CO<sub>2</sub> Relative Permeability and Its Impact on Large-Scale CO<sub>2</sub> Storage in Carbonate Reservoirs:** H. Wang, V. Alvarado, J. Kaszuba, Z. Jiao, J. F. McLaughlin
- 11:30** **Applying Exploration Common Process to Site Selection for Geologic Carbon Storage Complexes:** C. D. Walker, T. Espie, J. C. Evenick, J. Hodgkinson, S. Shoulders, A. Ross

## TUESDAY MORNING POSTER SESSIONS

Exhibit Hall 9:00 am–12:00 pm

(Presenters will be in their booths 9:30 am–11:00 am)

### Theme 2: Carbonates: Fractures and Karst

Co-Chairs: A. Nolting and J. Harms

- P1** **Timing and Mechanism of Calcites in Fractures of Middle Ordovician of Northern Tarim Basin, North West China:** Z. Qiao, S. Zhang, A. Shen, A. Hu, J. Zhao
- P2** **Multiphysics Numerical Modeling of a Naturally Fractured Carbonate Reservoir Analog:** I. Gomes, T. Miranda, R. Santos, J. P. Silva, J. A. Barbosa, A. I. Paz, J. P. Fernandes, R. da Silva, P. R. Bernardes

- P3** **Modeling the Structure, Porosity, and Permeability of the Arbuckle Group in South-Central Kansas:** A. Hollenbach, T. S. Bidgoli, E. Ansari
- P4** **Karst Heterogeneities: Static Modeling and Impact on Field Flow Behavior:** P. Henriquel, J. Franco, M. Lepphaille
- P5** **Oomolds in a Marine Realm? A Case Study From the Permian Basin's Happy Spraberry Field:** A. Albader, J. Laya, B. Miller, S. E. Kaczmarek
- P6** **Integrating Cores, CT, NMR, HPMT Data, and Well Logs to Characterize the Pore Structure of Carbonates – A Case Study From the Mishrif Formation in Southeast Iraq:** H. Liu, B. Liu, Z. Tian, R. Guo
- P7** **Dolostone-Limestone Transitions in the Hydrothermal Dolomitization System: Origin, Controls, and Evolution:** A. I. Koeshidayatullah, C. E. Hollis, J. Stacey, H. J. Corlett, A. Boyce, N. Al-Sinawi, J. Redfern
- P8** **Geometric Quantification of Dolomitized Clinoforms Using Digital Outcrop Models and Surface-Based Modeling: Insights for Geobody Connectivity From Outcrop Analogs:** C. Teoh, C. Jacquemyn, J. Laya, F. J. Hasiuk, S. E. Kaczmarek, F. F. Whitaker
- P9** **Integrated Seismic-Log-Core-Test Fracture Characterization and Modeling, Barra Velha Formation, Pre-Salt of Santos Basin:** R. S. Correa, C. E. Pereira, F. A. Cruz, S. N. Lisboa, M. P. Junior, V. H. Souza, C. H. Rocha, F. G. Araujo, R. R. Melo de Carvalho
- P10** **Karst Breccias and Pseudobreccias in the Ordovician Carbonates in the Halahatang Area, Tarim Basin, Northwestern China:** Q. Fu

### Theme 2: Carbonates: Depositional Models I

Co-Chairs: M. C. Pope and A. Godet

- P11** **Late Ordovician-Early Silurian Sequence Framework and C-Isotope Stratigraphy of the Williston Basin:** A. Husinec
- P12** **Pleistocene to Holocene Transgressive System (TST) of the Western Arabian Gulf, Saudi Arabia:** L. A. Gonzalez
- P13** **Paleokarst Reservoirs in the Lower Carboniferous (Mississippian) Madison Group and the Jura-Cretaceous Success Formation of West-Central Saskatchewan:** D. J. Kohlruess
- P14** **Sediment Drift Types in Carbonate Platform Settings:** T. Luedmann, M. Paulat, C. Betzler
- P15** **Tectonic and Climate Control on the Seismic Architecture of Palaeocene-Eocene Isolated Carbonate Banks of the Offshore Indus Basin, Pakistan:** K. Shahzad, C. Betzler
- P16** **Depositional Modeling Carbonate Strand Plain Development Using High-Resolution GPR and C-14 Dating:** K. Markert, J. McBride, S. M. Ritter
- P17** **Geology of West Karun Oil Fields Shared Between Iran and Iraq:** Y. Shahin
- P18** **Analytical Solutions for Growth of Linear Carbonate Platforms:** N. Goudemand, P. Singh\*, J. L. Payne

- P19** **Depositional and Facies Models in Evaporitic Sediments: A Case Study of the Prairie Evaporite and Lotsberg Formations in South-Central Alberta:** E. Lord, N. Harris
- P20** **Subsurface Facies and Non-Matrix Features Characterization of Sandy Point, San Salvador Island, Bahamas: Impact on Porosity, Permeability, and Fluid Flow:** A. Nolting, S. L. LeBlanc, S. M. Fullmer, P. J. Moore, F. Fernandez-Ibanez, T. Buono, J. Gulley, E. Bunge, H. Al-Qassab, C. Kerans
- P21** **Petrophysical Characteristics of Carbonate Drift Deposits in the Maldives:** E. L. Giddens, G. P. Eberli, R. J. Weger, T. Luedmann, A. Slagle

## Theme 3: Biomarker Applications in Petroleum Systems Analysis

Co-Chairs: A. Bennett, J. A. Curiale, and L. Heister

- P22** **Aliphatic and Aromatic Biomarkers of the New Albany Shale, Illinois Basin:** C. W. Brazell, S. C. Brassell, A. Schimmelmann, M. Mastalerz
- P23** **Origin Analysis on Anomalies in Enriched 25-Norhopanes in Crude Oil From the Karamay Formation of Santai Oilfield in Junggar Basin, Northwest China:** M. Hou, M. Zha, X. Ding
- P24** **Integration of Fluid and Rock Geochemical Parameters to Constrain Thermal Maturity Indicators in Paleozoic Organic-Rich Source Intervals:** D. C. Willette
- P25** **A Data-Driven Method for Processing and Analysis of Gas Chromatography-Mass Spectrometry (GC-MS) Signals in Differentiation of Oil Samples:** L. Lu, A. N. Bishop, Y. Tang, R. Bisquera
- P26** **Pay Allocation and Reservoir Depletion Analysis Through Geochemical Technologies:** M. N. Slack, D. A. Wavrek
- P27** **Microbial and Thermogenic Petroleum Systems in the Colombian Offshore Caribbean – New Geochemical Insights in an Emerging Basin:** F. Gonzalez-Penagos, A. V. Milkov, E. R. Lopez, L. M. Duarte
- P28** **Evidence for Several Charges of Migrated Gas in Austin Chalk, Eagle Ford, and Buda Reservoirs on the San Marcos Arch:** A. S. Kornacki, K. S. Weissenburger
- P29** **Geochemical Fingerprinting Applications in Petroleum System Assessment:** F. S. Al Najjar, B. I. Ghassal
- P30** **Molecular Fractionation of Organic Matter at Microscales Within Ordovician Kukersites Revealed by Nano-Infrared Spectroscopy:** A. M. Jubb, P. C. Hackley, J. J. Hatcherian, J. Qu, T. O. Nesheim
- P31** **Diamondoids in Oil-Inclusions: A Novel Technique to Unravel Petroleum Mixing in the Anadarko:** Al-Atwah, J. M. Moldowan, J. Dahl
- P32** **Charging of Severely Biodegraded Oils Surrounding the Northern End of Liaodong Uplift from Multiple Lacustrine Source Rock Intervals, Bohai Bay Basin, China:** D. Tian, C. Niu, W. Pan, K. Wu, R. Zhang

## Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II

Co-Chairs: C. Rodriguez and G. Schoenborn

- P33** **Louann Salt Evolution in the Northeastern Gulf of Mexico From Middle Jurassic to Present:** A. Mattson, R. M. Gani, N. D. Gani
- P34** **Sedimentology and Stratigraphy of the Cretaceous Evaporites of the West African Margin, Insight From the Proximal Domain of the South Gabon, Congo, and Cabinda Area:** A. Pichat, V. Delhaye-Prat, A. Pedley, L. Gindre-Chanu
- P35** **Loading a Complex Salt Isopach: Progradation Across a Salt-Filled Rift System** T. P. Dooley, M. R. Hudec,
- P36** **Implications of Variations in Salt Geometry for Exploration in the Brazil Salt Basins:** E. Carlock, J. Stewart, J. R. Sitgreaves
- P37** **A Conceptual Model of Deformation Near Tertiary Salt Welds:** M. P. Fischer, N. J. Williams, Z. Li, D. P. Canova
- P38** **Structural Analysis of Disrupted Carbonate Caprock Underlying a Salt Shoulder, Gypsum Valley Salt Wall, Paradox Basin, Colorado:** H. K. Draper, K. A. Giles
- P39** **Differential Translation of Supra-Canopy Minibasin Domains in the Northern Gulf of Mexico Slope:** N. Fernandez, O. Duffy, F. J. Peel, M. R. Hudec
- P40** **Seismic Characterization of Salt Stratifications: A Santos Basin Overview:** P. Barros, A. Maul, J. Fonseca, L. Teixeira, T. Yamamoto, F. Borges, M. González
- P41** **Coupling Between Sedimentation and Deformation: How Emergence of Mini-Basins Connects to Turbidity-Current Sedimentation:** X. Liu, D. Mohrig, J. Buttles
- P42** **Lean Salt Architecture in the Northern Gulf of Mexico:** W. J. Beck, S. Tierrablanca, T. Buckley, H. D. Lebit
- P43** **Characterization of Counter-Regional Normal Faulting in the South Gabon Basin from 2-D Seismic Interpretation:** D. T. Scott
- P44** **Evaluation of Sealing Performance of Multi – Stage Abutting Faults in The Bohai Bay Basin, China:** J. Ren, K. Su, H. Rui, P. Liu, X. Zhang, Y. Yao

## Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III

Co-Chairs: N. Fernandez and R. Goteti

- P45** **Multiple Stages of Syndepositional Halokinetic (?) Deformation in the Permian Cutler Formation, Northern Margin of the Onion Creek Diapir, Paradox Basin, Utah:** D. F. Lankford-Bravo, K. A. Giles, R. Langford
- P46** **Origin of Supra-Salt Synclines in the “Post Diapiric” Jurassic Morrison Formation, Big Gypsum Valley, Colorado:** A. Soltero, R. Langford, K. A. Giles
- P47** **The Salt Layer as Important Key to the Pernambuco Plateau Petroleum System, Northeast Brazil:** O. J. Filho, B. Buarque, J. A. Barbosa, G. Ramos, J. Oliveira, J. Magalhães, H. Da Silva, M. L. Alencar, A. Araújo, A. Celestino



- P48 The 3-D Geometry and Distribution of Sub-Seismic Scale Halokinetic Unconformities: Implications for Salt Minibasin Evolution and Associated Reservoir Architecture:** J. Cebers-Korkmaz, S. M. Clarke, S. Jones, T. Randles, R. Pettigrew, T. Dodd
- P49 Miocene Evaporites of the Carpathian Foredeep Basin and Their Role in Formation of Gas-Bearing Contractional Structures – 250 Years of Geological and Geophysical Studies:** P. Krzywiec, M. G. Rowan, K. Bukowski, N. Oszczytko, J. Przybyło
- P50 Spatial and Temporal Variation of Fault Activity in the Terrebonne Salt Withdrawal Basin, Southeastern Louisiana: Response to Salt Evacuation and Sediment Loading:** A. O. Akintomide, N. H. Dawers
- P51 Evidence for Extensional Rollover Subbasins and Salt Withdrawal Minibasins Adjacent to the Aulet and Adons Diapirs, Spanish Pyrenees:** C. Gannaway Dalton, K. A. Giles, J. A. Muñoz, M. G. Rowan
- P52 Quantifying Deformation of the Permian Halokinetic Cutler Group, Paradox Basin, Utah Using Rock Magnetic Methods: Implications for Salt Tectonics and Salt-Related Petroleum Systems:** J. Stine, J. Geissman, D. Sweet, J. F. Ferguson
- P53 Origin, Characteristics, and Distribution of Non-Halite Clasts Within Patawarta Diapir, Flinders Ranges, South Australia:** R. A. Kernen, K. A. Giles, M. G. Rowan
- P54 Syndepositional Folds Developed in Salt Wall Roof Strata, Paradox Basin, Utah and Colorado:** R. Langford, K. A. Giles\*, D. F. Lankford-Bravo, R. Ronson, A. Soltero, C. H. Bailey, R. A. Delfin, J. McFarland, E. Heness
- P55 Structure and Kinematics of the Central Sivas Basin (Turkey): A Mixed Fold- and Salt-and-Thrust Belt:** E. V. Legeay, J-C. Ringenbach, C. Kergaravat, A. Pichat, G. Mohn, K. S. Kavak, J-P. Callot
- P61 Late Pleistocene Rio Grande and Bryant Fans: Two Unique Deep-Sea Fan Types in the Northern Gulf of Mexico and Their Implications for Petroleum Systems:** J. E. Damuth, H. Olson, C. Nelson
- P62 Downslope Variability in Deep-Water Slope Channel Fill and Stacking Patterns: Insights From Outcrop and Shallow Seismic Analogs:** B. G. Daniels, S. M. Hubbard, L. Stright, B. W. Romans
- P63 Deep-Marine Mudrock Chemostratigraphy in the Windermere Turbidite System, Cariboo Mountains, Canada: Implications on Provenance and Sequence Stratigraphy:** L. Navarro, G. Mitczarek, S. Ludzki, B. Arnott
- P64 How Do Submarine Canyon-Channel Systems (re)Shape Continental Margins?:** L. A. Pettinga, L. Shumaker, Z. R. Jobe
- P65 Geometric Modeling of a Turbidite System: Roadmap to Pore Pressure Distribution:** A. J. Welker, A. Eckert\*, J. Obrist
- P66 Architecture of Channel Levee Build Up in Unidirectional Migrating Turbidite Channel Complexes in Plio-Pleistocene Channel Levee System of Indus Offshore Basin, Pakistan:** E. Ul Haq, J. Youliang
- P67 Influence of Mass Failure Deposit Topography on Post-Emplacement Sediment Gravity Flows and Fills: Offshore Eastern Trinidad:** H. Deng, L. J. Wood, W. Zhou, L. Moscardelli

## Theme 1: Deep-Water Systems: Currents and Resulting Fine(r)-Grained Deposits

Co-Chairs: *E. Arce-Perez and J. F. Bijkerk*

## Theme 1: Deep-Water Sedimentology

Co-Chairs: *T. Heard and I. Kane*

- P56 Sedimentologic and Stratigraphic Evidence for Flow Transformations as Turbidity Currents Encounter Intraslope Minibasins: Implications for Up-Dip Stratigraphic Traps From an Outcrop Analog:** R. G. Englert, S. M. Hubbard, B. Romans, S. Kaempfe, L. E. Stright
- P57 Quantifying the Relationship Between Structural Deformation and the Morphology of Submarine Channels From Shelf-Edge to Deep Water: Case P58 Studies From the Niger Delta System:** W. H. Mitchell, A. Whittaker, L. Lonergan, M. J. Mayall
- P58 Studies From the Niger Delta System:** W. H. Mitchell, A. Whittaker, L. Lonergan, M. J. Mayall
- P59 Depositional Architecture of a Slope Fan Fed by Multiple Channel Systems:** R. S. Healy, L. A. Hansen, D. M. Hodgson, A. S. Pontén, R. J. Wild, I. A. Kane, S. S. Flint
- P60 Attribute Analysis and Morphologic Evaluation of an Incised Valley System in the Santos Basin, Brazil:** J. Tilton, H. D. Lebit, H. Bedle
- P68 Morphology, Seismic Characteristics, and Origin of Widespread Sediment Waves in a Submarine Canyon System on the Northern South China Sea Margin:** F. Lyu, W. Li, J. Li, L. Li, J. Wu
- P69 Origin-Based Classification Scheme for Fine-Grained Sediments: A Case Study From the Eocene Green River Formation in Uinta Basin:** C. Zhou, Z. Zhijie, J. Zhang, R. J. Steel, C. Olariu, X. Yuan, D. Cheng
- P70 New Insights Into the Permeability Barriers Between Submarine Channels and Their Levees, Eocene Brito Formation, Sandino Basin, Nicaragua:** S. P. Cossey
- P71 Regional Depositional Setting of the West Orphan Basin; The Importance of Contour Current Processes on Stratigraphic Trap Generation in a Hybrid Depositional System:** S. M. Donnelly, R. T. Beaubouef, R. O. Bracht, R. J. Fitzsimmons
- P72 Origin and Significance of Thin-Bedded Packets Interleaved in Sandy Deep-Sea Fan Successions:** E. A. Morris, P. D. Houghton, P. M. Shannon, C. Pierce, A. J. Pulham, O. J. Martinsen, S. P. Barker
- P73 Lateral Heterogeneity of Distal Submarine Lobe Deposits, Point Loma Formation, California: Implications for Lateral Facies Prediction in Horizontal Wells:** K. B. Kus, Z. R. Jobe, F. J. Laugier, M. D. Sullivan

- P74** **Sedimentary Model of Fine-Grained Sediments: A Case Study From the Holocene Qinghai Lake:** Z. Zhang, C. Zhou, X. Yuan, W. Kim, P. Li, H. Zhou
- P75** **Spatial and Temporal Evolution of Matrix-Poor to Matrix-Rich Sandstones in the Ordovician Cloridorme Formation, Quebec, Canada: A Detailed Reassessment of Greywackes After Half a Century:** J. Ningthoujam, R. Arnott
- P76** **The Deep-Water Channels Migration and Evolution Under the Inference of Bottom Current in Offshore Mozambique, East Africa:** X. Xu, D. Shao, G. Zuo, Y. Lu, H. Sun, Q. Cao
- P77** **An Integrated Study on the Spatial Distribution and Formation of Contourites:** D. Beelen, L. J. Wood

## Theme 6: Induced Seismicity and Water Management

Chair: *T. S. Bidgoli*

- P78** **Geostatistical Analysis of Injection Activity and Seismic Events in the Dallas-Fort Worth Region:** Y. Xiao, M. J. Pyrcz, C. R. Lemons, P. H. Hennings
- P79** **Characteristics of Potentially Seismogenic Faults in the Greater Fort Worth Basin:** E. A. Horne, P. H. Hennings, J. Osmond
- P80** **Quantifying Fault Stability in the Fort Worth Basin, Texas:** A. Morris, P. H. Hennings, H. DeShon, A. Price
- P81** **Basin-Scale Hydrogeological Modeling of the Fort Worth Basin Ellenburger Group for Pore Pressure Characterization:** J. Nicot, R. S. Gao, P. H. Hennings, R. D. Dommissie
- P82** **Impact of Varied Approaches for Fault Slip Potential Analysis in the Fort Worth Basin, Texas:** P. Hennings, J. Lund Snee, J. Nicot, E. A. Horne, M. D. Zoback
- P83** **Development of a Three-Dimensional Vertical Stress Model for the Greater Permian Basin Region:** K. M. Smye, E. A. Horne, P. H. Hennings
- P84** **Geochemical Sourcing of Produced Waters From Soil Dumps and Spills: A Case Study From the Permian Basin:** M. Engle, D. Akob, D. Kent, T. Gregston, I. Cozzarelli, J. Jaeschke, A. Jubb, W. Orem, M. Marvin-DiPasquale
- P85** **Key Technologies for Green Development of the Fuling Shale Gas Field:** Y. Zang, Y. Liu, Z. Wang
- P86** **Upgraded Lighting Practices in the Oil and Gas Industry Help to Protect the Night Skies at McDonald Observatory and Improve Visibility in the Field:** W. Wren

## Theme 5: Unconventional Reservoir Technology

Chair: *B. R. Davis*

- P87** **Integrated Monitoring of Steam Chamber Development Using Time-Lapse PP-PS Joint Inversion: A Case Study of Oil Sands Reservoir, Canada:** W. Bo, Q. Nie, L. Hong, C. Wang, X. Zhang

- P88** **Reservoir Quality and Fractures System Assessment of Meramec and Osage Limestone by Using Advanced Log Analysis Method:** X. An, L. Wu
- P89** **Identification of Triggers for Organic Matter Burial of the Middle and Upper Devonian Horn River Shale, Northeastern British Columbia, Canada:** H. Zhou, N. B. Harris
- P90** **Integration of XRF and Shades of Grey Profiles for In-Depth Characterization of Shale Properties:** A. Cheema, J. D. Chatellier\*, J. Afzal
- P91** **Estimating Lithologic Facies in Argillaceous and Carbonate-Rich Mudrocks Using X-Ray Fluorescence Measurements and Multivariate Statistics:** T. E. Larson, E. Sivil, K. Hattori, R. G. Loucks, S. C. Ruppel
- P92** **Moisture Equilibration and Permeability of Crushed Shale Samples:** M. Achang
- P93** **Geology of the Turner Sandstone, Finn-Shurley Field, Powder River Basin Wyoming:** S. A. Sonnenberg
- P95** **Optimizing Portable ED-XRF Calibration Routine for Sandstones and Carbonate Reservoirs: Examples From the Delaware Basin and Central Basin Platform:** A. Morrell, H. Rowe, M. C. Dix
- P96** **A Comparison of Kerogen Maturity Analysis in Shales Using Laser Raman Spectroscopy, Vitrinite Reflectance and Rock-Eval Pyrolysis:** D. G. Henry, I. Jarvis, G. Gillmore, M. Stephenson, C. Vane
- P97** **Influence of Mineralogy and Composition on the Geomechanical Properties of the Duvernay Unconventional Liquids Rich Gas Shale Play (Alberta, Canada): A Well Log Perspective:** M. Venieri, P. K. Pedersen, D. W. Eaton

## Theme 8: New Applications of Machine Learning to Subsurface Science

Co-Chairs: *C. Xu, C. Pellan, and S. Bhattacharya*

- P98** **Managing Data Traceability in the Data Lifecycle for Deep Learning Applied to Seismic Data:** R. Souza, E. Vital Brazil\*, L. Azevedo, R. Ferreira, D. Salles Chevitarese, E. Soares, R. Thiago, M. Nery, V. Torres, R. Cerqueira
- P99** **Semantic Segmentation Pipeline for Seismic Data:** D. Salles Civitarese, D. Szwarcman, E. Vital Brazil
- P100** **Mineralogical Estimation of Organic Rich Mudrocks From Well Logs Using Neural Networks: Overcoming Training Dataset Size Limitation by Integrating X-Ray Fluorescence Elemental Data:** M. A. Al Ibrahim, T. Mukerji, A. Hosford Scheirer
- P101** **Machine Learning Multi-Attribute Analysis for Gas Hydrate Identification:** H. Bedle, J. Chenin
- P102** **Advanced Quantitative Stratigraphic Data Integration of Conventional and Unconventional Plays:** X. Liu, Y. Xiong, T. Vodo, A. Smith, M. A. Lorente

- P103** **An Application of Dynamic Time Warping in Rapid Depth Shifting to Improve the Quality of Machine Learning Training Datasets:** M. W. Bauer
- P104** **A Bi-Directional Long Short-Term Memory Neural Network for Geologic-Facies Classification:** J. Jiang, S. C. James, S. C. Atchley
- P105** **Study on Flow Unit of Turbidite Fan Low Permeability Reservoir Based on Self-Organizing Neural Network Algorithm:** Y. Lu, K. Liu, Y. Wang
- P106** **Reservoir Modeling With Deep Learning:** G. H. Graham, Y. Chen
- P107** **Applied Insight From Machine Learning Applications Using Analog Data:** J. L. Faroppa

## TUESDAY AFTERNOON ORAL SESSIONS

### SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record PICO Session

Hemisfair Ballroom I

**Co-Chairs:** A. Fildani, K. Gomez, and J. Covault

See page 20 for more information on this special session.

- 1:15** **Introductory Remarks**
- 1:20** **Understanding Ice-Sheet Vulnerability Using an Integrated Subsurface Sedimentary Geoscience Approach: Preliminary Results From Neogene and Quaternary Records Acquired During IODP Expedition 374 to the Ross Sea, Antarctica:** B. W. Romans, L. De Santis, R. M. McKay, D. K. Kulhanek, E. Scientists
- 1:25** **Submarine Fans, the Carbon Cycle, and Climate Models:** A. M. Hessler
- 1:30** **Opportunities for Incorporating Deep-Time Insight About Landscape Dynamics into Engineering and Decision-Making Models:** E. A. Hajek, V. Ganti, E. Greenberg
- 1:35** **Using Earth's Sedimentary Record to Inform Studies of Delta Channel Deposits on Mars:** T. A. Goudge, D. Mohrig, B. T. Cardenas, C. M. Hughes, C. I. Fassett
- 1:40** **Conservation Paleobiology – Using Ancient Examples of Marine Extinctions to Understand and Mitigate Future Ecosystem Collapse:** R. C. Martindale, W. Foster, A. M. Weiss
- 1:45** **Exploiting Autogenic Sedimentary Processes to Synchronize Geologic and Modern Timescales of Environmental Change:** B. Z. Foreman, K. M. Straub
- 1:50** **Predictions for the Width of River Channel Belts From Physical Experiments and the Rock Record:** A. B. Limaye, C. Paola
- 1:55** **Integrating Observations From Recent Seafloor Surveys With the Deep-Water Stratigraphic Record: Implications for Securing Energy Resources, Geohazard Assessments, and Other Potential Applications:** S. M. Hubbard, R. Englert, M. Cartigny, M. Clare, J. Eggenhuisen, Z. R. Jobe, S. Hage, M. Heijnen, D. Vendettuoli

- 2:00** **Building a Geothermal Future on a Sedimentary Foundation:** J. M. Holbrook
- 2:05** **Hydrologic Variability and Fluvial Responses to Increased Warming During the Paleocene Eocene Thermal Maximum, Piceance Creek Basin, Colorado, USA:** A. K. Lesko, B. Foreman

### Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum

Room 217 B/C

**Co-Chairs:** W. K. Camp and K. L. Canter

- 1:15** **Introductory Remarks**
- 1:20** **New Techniques and Applications of Organic Petrography and Spectroscopy: Insights for Shale Petroleum Systems:** P. C. Hackley, A. Jubb, B. Valentine, J. J. Hatcherian, R. McAleer
- 1:40** **Detailed Characterization of Hydrocarbons in Source Rocks and Mud Rock Reservoirs by Thermal Extraction-Evolved Product GC-MS and GC-MS/MS Analysis:** T. B. Malloy, K. Bissada, M. Mei, L. M. Darnell, J. C. Wright
- 2:00** **Delaware Basin GOR and Production Forecasting:** M. Bhatia, J. Lee, T. Blasingame, H. Nasrabadi, B. Hascakir, D. McVay
- 2:20** **Dual Pore-Connectivity and Wettability and Fluid-Accessible Pathways of Shale:** Q. Hu
- 2:40** **Refreshment Break**
- 3:25** **Solid Bitumen in Shales: Facies and Maturity Effects on Microstructures:** D. Misch, D. Gross, B. Horsfield, J. Klaver, R. F. Sachsenhofer, J. Schmatz, J. L. Urai
- 3:45** **Implications of Solid Bitumen in Source-Rock Reservoirs:** M. Mastalerz, A. Drobniak
- 4:05** **Pore Characteristics in Refractory Kerogen vs. Solid Bitumen and Pore Systems in the Dry-Gas Window Marcellus Formation, Appalachian Basin, Northeastern Pennsylvania:** L. Ko, P. C. Hackley, R. G. Loucks, T. Zhang, C. Wu
- 4:25** **Tracer-Guided Characterization of Dominant Pore Networks and Implications for Permeability and Wettability in Shale:** S. Peng, R. M. Reed, X. Xiao
- 4:45** **Pyrolysis-Based Model Prediction of API Gravity in the Producing Fluid Saturations of Organic-Rich Unconventional Reservoirs:** A. S. Pepper



## Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits

Room 217 D

Co-Chairs: K. D. Bergmann and J. Sitgreaves

- 1:15 **Introductory Remarks**
- 1:20 **Unusual Carbonate Facies and Precipitates: Is the Precambrian the Key to the Cretaceous Pre-Salt Carbonates? – Part 1:** J. Amthor, K. Bergmann, R. Camara, K. Juk, Shell Brazil
- 1:40 **Styles of Pre-Salt Carbonate Platforms, Brazil Santos Basin:** T. Simo, J. Sitgreaves, E. Smith, U. Bayram, J. Stewart
- 2:00 **Lacustrine Carbonate Platform Development – A Multi-Scale Approach to Build Predictive Models:** J. Sitgreaves, T. Simo, M. Lawson, J. Stewart, U. Bayram, C. López
- 2:20 **Rapid Modeling of Microbial Carbonates Using a Sketch Based Tool:** C. Jacquemyn, M. D. Jackson, D. W. Hunt, D. Hulme, G. McQueen, I. Shepherd
- 2:40 **Refreshment Break**
- 3:25 **Geochemistry of Unusual Carbonate Facies: Is the Precambrian the Key to the Cretaceous Pre-Salt Carbonates? Part 2:** K. D. Bergmann, J. Amthor, M. Cantine, A. B. Jost
- 3:45 **Fitting the Facies Mosaic Together: Controls on Lateral Heterogeneity of Microbial Reefs:** M. D. Cantine, A. Cummings, K. D. Bergmann
- 4:05 **The Influence of Faults on the Deposition of Large Lacustrine Carbonate Mounds in the Green River Formation of Utah and Wyoming: Implications for Understanding Spatial Distribution and Reservoir Quality:** E. A. Jagniecki, J. J. Scott, J. Janick, M. D. Vanden Berg
- 4:25 **Reservoir Insight From World-Class Microbialite Outcrops – Cambrian of Central Texas:** A. W. Droxler, J. M. Harris, P. Khanna, H. H. Hopson, D. Lehrmann
- 4:45 **Lessons From Hamelin Pool and the Maldives for the Coquina Reservoirs in Libra, Santos Basin:** G. P. Eberli, E. Suosaari, E. Karaca, M. Díaz, C. Betzler, T. Lüdman

## Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II

Room 214 B/C

Co-Chairs: Z. Cumberpatch and M. G. Rowan

- 1:15 **Introductory Remarks**
- 1:20 **Recognition of Passive Salt Diapirism in the Rock Record:** K. A. Giles, M. G. Rowan
- 1:40 **New Frontiers in Salt Research:** P. A. Kukla, J. L. Urai, F. Strozyk
- 2:00 **Minibasin Stratigraphy and Related Trapping Styles in Salina del Istmo Basin, Gulf of Mexico, Mexico: New Insights From 3-D Seismic Stratigraphy and Geomorphology Interpretation:** C. Rodriguez, J. Hernandez, R. A. Ysaccis, S. Villarreal, K. Lyons, F. Snyder, M. Mikhaltrev, M. El-Toukhy, S. A. Centanni, E. Galvan, S. A.
- 2:20 **Strontium Isotope Dating of Evaporites and the Breakup of the Gulf of Mexico and Proto-Caribbean Seaway:** J. L. Pindell, B. Weber, W-H. Elrich, S. P. Cossey, M. R. Bitter, R. S. Molina, R. H. Graham, R. N. Erlich
- 2:40 **Refreshment Break**
- 3:25 **Polyphase Deformation of Salt Diapirs in the Shallow Water Campeche Basin of Mexico:** T. Heyn, A. S. Afifi, R. Zhang, R. R. Winter, A. R. Hospedales
- 3:45 **Computational Forward Modeling of Salt Tectonics in Varied Tectonic Settings: Computational Challenges, Applications, and Future Directions:** D. Roberts, F. Paw
- 4:05 **Using Seismic and Physical Modeling to Characterize the Origin and Deformation of Sediment Clasts Within Patawarta Diapir, Flinders Ranges, South Australia:** R. A. Kernen, T. P. Dooley, K. A. Giles, M. G. Rowan, F. J. Peel, M. R. Hudec
- 4:25 **Supra-Salt Carapaces in the Western Betic Cordillera, Spain: Characterizing an Outcropping Example of a Key Element in Salt Tectonics:** J. F. Flinch, J. Soto
- 4:45 **The Louann Salt of the Gulf of Mexico: How Long Does it Take to Deposit a Giant Salt Deposit?:** F. J. Peel

## Theme 10: Opportunity Valuation

Room 217 A

Co-Chairs: E. G. Hathon and D. C. Zweidler

- 1:15 **Introductory Remarks**
- 1:20 **Opportunity Valuation and Investment Decisions – A Tale of Narratives and Numbers:** D. C. Zweidler
- 1:40 **Conventional Exploration: Smaller, Stronger, and Back in the Black:** J. Wilson
- 2:00 **The Role of Serendipity, Randomness, and Luck in Petroleum Exploration:** A. V. Milkov, W. C. Navidi
- 2:20 **Holistic Approach to Business Development – An Integrated Team and Approach to Create Results:** D. M. Hartz
- 2:40 **Refreshment Break**
- 3:25 **Role of the Geologist in Oil and Gas Acquisitions and Divestitures:** J. S. Hamilton

- 3:45 **Production Forecasting: Improved Understanding of Why Sparse Data, Static and Dynamic Reservoir Modeling Limitations, and Human Bias Lead to Optimistic Recovery Forecasts:** W. S. Meddaugh
- 4:05 **Utilizing Multivariate Statistical Modeling to Incorporate Geologic, Operational, and Economic Variables to Develop a Graded Acreage Model in the Eagleford:** S. Mathukutty
- 4:25 **Leveraging Data and Building Analytics-Driven Valuations:** J. Lepore

### Theme 3: Integrated Workflows in Petroleum Systems Modeling

Room 214 D

Co-Chairs: *J. Berthelon and R. Tscherny*

- 1:15 **Introductory Remarks**
- 1:20 **Origins of Fluid Compositional Variation in Northern Iraq, Northeast Syria, and Southeast Turkey:** A. S. Pepper
- 1:40 **Geochemical Comparison of Oils From Upper Pennsylvanian Kansas Reservoirs, Northwest Kansas to Woodford Shale Source Rocks: A Case for Long Distance Migration:** B. Tamborello, R. Philp
- 2:00 **Wolfcamp Geochemistry and 3-D Basin Model of the Midland Basin:** I. Yurchenko, S. Hamlin, W. Fairhurst
- 2:20 **Improving Burial and Thermal History Modeling Based on Geochemistry and Progressive Clay Mineralogical Transformation in Devonian Shales – Examples From the Duvernay and Muskwa Formations in Western Canada:** R. A. Wust, S. Tu
- 2:40 **Refreshment Break**
- 3:25 **Scaling Analysis of the Coupled Compaction, Kerogen Conversion, and Petroleum Expulsion During Geological Maturation:** Q. Yuan, Y. Mehmani, A. K. Burnham, A. Lapene, J. Wendebourg, H. Tchelepi
- 3:45 **Understanding the Role of the First Carrier Bed: Simple Rules of Thumb and Workflows That Can Reduce the Dry Hole Rate:** Z. He
- 4:05 **Fully Coupled Geomechanics-Basin Modeling and the Link Between Tectonics and Natural Hydraulic Fracturing: Application to the Neuquen Basin:** T. Cornu, M. Cacas-Stenz, R. Traby, D. Colombo, J. Fey, A. Bouziat, N. Guy
- 4:25 **Interplay Between Depth-Dependent Leakage, Fault Sealing and Pore Pressure Buildup on Selected Areas of the Norwegian Continental Shelf:** C. Hermanrud, G.M.G. Teige, M.O. Osnes, H.M. Nordgård Bolås
- 4:45 **Faulted Column Heights:** B. Freeman, G. Yielding, P. Bretan, D. Quinn

### Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture

Room 214 A

Co-Chairs: *V. M. Rossi, J. Zhang, and C. Olariu*

- 1:15 **Introductory Remarks**
- 1:20 **Dislocations in the Wilcox/Carrizo Sediment-Routing System: Emerging Evidence From Central Texas:** C. Denison, J. M. O'Keefe, T. D. Demchuk
- 1:40 **Stratigraphic Architecture of Hunter River Valley Fill, Southeast Australian Margin:** R. Boyd, N. Bates
- 2:00 **Depositional Facies and High-Resolution Sequence Stratigraphic Analysis of a Mixed-Process Influenced Deltaic System in a Stormy Ramp Setting: The Cretaceous Gallup System, New Mexico, USA:** W. Lin, J. P. Bhattacharya
- 2:20 **Quaternary Transgressive, Tidal- and Wave-Dominated Coastal-Systems in the Northeastern Sardinian Relict Shelf: Spatial and Temporal Variations in Coastal Process Regime:** F. Gamberi
- 2:40 **Refreshment Break**
- 3:25 **Mouth-Bar Element Complexes: Internal Architecture and Effect of Depositional Process on Modern Deltaic Systems:** B. K. Vakarelov, R. B. Ainsworth
- 3:45 **Compensational Stacking and Architecture of Mouth-Bar Deposits in a Mixed-Process Deltaic Environment; Mulichinco Formation, Neuquén Basin, Argentina:** A. R. Sleveland, O. Galland, H. Leanza, I. Midtkandal
- 4:05 **Facies Characterization and Depositional Architecture of the Fruholmen and Stø Formation, Barents Sea, Norway:** J. D. Sanchez Mendoza, H. Dowd Martinez, E. Stueland
- 4:25 **Outcrop and Subsurface Characteristics of Tidally Modified Shelf Edge Delta and Upper Slope Deposits of the Blair Formation, Rock Springs Uplift, Wyoming:** K. L. Belcher, P. P. Flaig, R. J. Steel
- 4:45 **Fluid Mud Transport in the South China Sea – A Case Study of Sediments on the Continental Shelf of Qiongdongnan Basin:** R. Zhao, S. Chen, H. Wang, R. J. Steel

## The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists

Room 213 A/B

**Moderators:** *D. Dunlap and S. Nwoko*

See page 20 for more information on this special forum.

**Panelists:**

### Introductory Remarks

- **Vanessa Kertznus**, Supervisor Gulf of Mexico West, Shell
- **Diana Duran**, Geological Advisor Permian Exploitation Group, Occidental Petroleum
- **Nysha Chaderton**, Technical Team Lead, ExxonMobil
- **Michael Pyrcz**, Associate Professor, The University of Texas at Austin
- **Denise M. Cox**, President AAPG
- **David K. Curtiss**, Executive Director, AAPG
- **Jeff Aldrich**, Vice President, Sections, AAPG

## DEG Special Session: Environmental Impact and Sustainability

Room 213 A/B

**Co-Chairs:** *M. Barrett and M. A. Jacobs*

See page 21 for more information on keynote speaker Iain Stewart.

- 3:25**     **Introductory Remarks**
- 3:30**     **Communicating Contested Geoscience to the Public: "Matters of Fact" vs. "Matters of Concern:"** I. Stewart
- 4:00**     **A Comparison of Temperature Trends of Industrial Era and Pre-Industrial Age:** D. A. Carlson
- 4:20**     **Sustainable Development and the UN Sustainable Development Goals: Where Do the Geosciences Fit In?:** M. S. Winsten, D. Domeracki, J. Lima
- 4:40**     **Transitional Role of the Oil and Gas Industry in Addressing Climate Change:** R. Leonard, A. Berman

## TUESDAY AFTERNOON POSTER SESSIONS

Exhibit Hall 2:00 pm–5:00 pm

(Presenters will be in their booths 2:30 pm–4:00 pm)

### Theme 7: Geophysics: Beyond Seismic Methods

**Co-Chairs:** *N. Tisato and G. Bozkurt*

- P1**     **Application of Stratigraphic Slice Technique Based on Seismic Inversion in Predicting Subsalt Carbonate Reservoir:** L. Dong, W. Hongping
- P2**     **Characterization of a Mass Transport Deposit Using Seismic Attributes: Upper Leonard Interval, Midland Basin, West Texas:** P. Bhatnagar, S. Verma
- P3**     **Enhancement of Anomalies in Time-Lapse Seismic Data by Means of Principal Component Analysis:** T. S. Ruchiga, R. D. Portugal, M. Xavier

- P4**     **Lithology Estimation by Full Wave Sonic and 3-D Seismic Data at the Mississippian Pennsylvanian Boundary of Western Osage County, Oklahoma:** C. Falzone, D. C. McCabe, C. Liner
- P5**     **New Techniques Using High-Density Seismic Array Data Analysis to Determine 3-D Fault and Crustal Structures in the Long Beach Basin:** A. F. Allevato, R. Clayton, D. Weeraratne
- P6**     **New-Old Potential Field Data in the Alaska OCS:** M. Unger
- P7**     **LiDAR-XRF Constrained Forward Seismic Model of McKittrick Canyon Shelf Slope: High-Resolution Into Its Sequence Stratigraphy and Insight Into Interpretation of Seismic Profiles of the Permian Subsurface:** C. Xu, Z. Wang\*, J. D. Pigot
- P8**     **Using Stratigraphic Modeling to Ascertain the Sensitivities and Uncertainties in Computing the Gravity Responses of Sedimentary Basins:** V. Crombez, R. Chopping, L. Peeters
- P42**     **The Study and Application of the Subtle Strike-Slip Fault Identification Technology in the Exploration of Miaoxinan Uplift Area, Bohai Bay Basin, Eastern China:** X. Ma, D. Zhou, C. Niu, H. Zhang, R. Han

### Theme 2: Carbonates: Permian Basin

**Co-Chairs:** *J. Rush and M. T. Reistoffer*

- P9**     **Shelf-to-Basin Architecture and Depositional Trends, Missourian-Wolfcampian Strata of the Eastern Shelf of the Southern Midland Basin, West Texas:** T. F. Hentz, W. A. Ambrose, H. Hamlin
- P10**     **Preliminary Results on Depositional Facies, Sediment Origin and Diageneses of Late Paleozoic Shale Horizons From the Midland Basin, West Texas:** H. Green, B. Segvic, T. R. Walsh
- P11**     **Depositional Processes, Sequence Stratigraphic Framework, and Reservoir Quality of the Wolfcamp a Formation in the Delaware Basin, West Texas:** M. T. Reistoffer, M. Mltsdarffer, M. Grammer, C. M. Bowie, E. P. Kvale
- P12**     **Wolfcampian Shelf-to-Basin Stratigraphic Framework of the Central Basin Platform and Midland Basin, Andrews County, Texas:** C. Draper, C. Kerans, G. P. Wahlman
- P13**     **The Darwin and Keeler Basins as Outcrop Analogs to the Permian Basin System:** R. Leary, I. Foli, A. Stewart, L. Vaughn, J. W. Van Wijk
- P14**     **Geochemical and Petrophysical Characterization of the Mississippian Limestone and Barnett Formation Along the Eastern Margin of the Central Basin Platform, Permian Basin, USA:** M. Hemenway, M. Nieto, H. Rowe, E. Krukowski, R. Krumm
- P15**     **Wolfcamp to Third Bone Spring (Permian) Lithofacies From Core: Depositional Styles and Play Concepts, Delaware Basin:** C. Collier, A. D. Parker



- P16**     **3-D Integrated Geological Model Construction of Fasken Ranch Area, Midland Basin, Texas:** R. Dommissie, C. Kerans, C. Zahm, F. Male, S. Pollock, R. Bianco

## Theme 2: Carbonates: Depositional Models II

Co-Chairs: *Y. Xiao and S. Halli*

- P17**     **Complete 3-D Reconstruction of an Early Paleozoic Fore-Reef Succession in Yukon, Canada:** J. Busch, J. V. Strauss, M. H. Saylor
- P18**     **Uncertainty Analysis of Reservoir Quality and Pressure Barriers in a Sub-Salt Carbonate Platform Using Forward Stratigraphic Modeling (Serpukhovian Stage, Karachaganak Field, Kazakhstan):** C. John, I. Kussanov, N. Hawie
- P19**     **Origins of Carbonate Spherulites in Sedimentary Rocks, Examples From Early Carboniferous Lacustrine Sediments (East Kirkton of Scotland) and Laboratory Experiments:** L. Guo, S. Wu, W. Zhou, S. Passey
- P20**     **Seismic Characterization and Origin of Clinoforms in Lacustrine Depositional Environments: A Case Study From the Cretaceous of the South Atlantic:** A. Barnett, L. Fu, T. Rapasi, K. Juk, C. Scotellaro, J. Guha, A. Licia
- P21**     **Significance of Microbial Binding in Silurian Forereef Slope Deposits at Pipe Creek Jr. Quarry, Indiana:** A. Santiago Torres, J. Karsten, G. Grammer, D. R. Prezbindowski, J. Havens
- P22**     **Paleo-Environment Reconstruction and Source Rock Prediction in Brink Bags: A Case Study in Eastern China:** L. Zhang
- P23**     **The Role of Variable Paleotopography and Upwelling on Deposition of Late Oligocene and Miocene Heterozoan-Large Benthic Foraminifera-Coral Sequences, Jamaica:** E. E. Core, E. K. Franseen
- P24**     **Sequence Stratigraphic Framework From Base Ahmadi to Top Mishrif Formation of Cretaceous Cenomanian Age in Southern Iraq:** B. Song, Y. Gao, R. Han, C. Tian, Y. Zhu
- P25**     **An Updated Semivariogram Atlas for Carbonate Reservoirs:** W. S. Meddaugh
- P26**     **Inter-Well Scale Heterogeneity of the Upper Khuff Carbonate Reservoir Units, Outcrop Analog Approach, Central Saudi Arabia:** M. S. Osman
- P27**     **The Seagrass Skeletal Assemblage From Modern to Fossil and From Tropical to Temperate:** M. Brandano, L. Tomassetti, G. M. Vicens\*, G. Gaglianone
- P28**     **Sea Level and Current Dominated Diagenetic Regimes of the Kardiva Platform, Maldives:** K. Prince, J. C. Laya

## Theme 8: The Digital Transformation in the Geosciences

Co-Chairs: *J. Deck, A. Hosford Scheirer, and L. E. Stright*

- P29**     **Machine Learning Using Natural Language Processing to Access Geoscience Knowledge:** R. R. Jones
- P30**     **Svalbox: A Geoscientific Database for High Arctic Teaching and Research:** K. Senger
- P31**     **Application of Decision Tree to Determine Failure Modes for Dry Segments in the Deep-Water Taranaki Basin, Offshore New Zealand:** J. M. Samis, A. V. Milkov
- P32**     **Artificial Intelligence Application on Seismic Data for Automatic First-Break Arrival Picking:** H. Gupta, D. Peter, J. Akram
- P33**     **Facies Classification Based on Well Logs by Using a Convolutional Neural Network:** Z. Zhong, T. R. Carr
- P34**     **Automated Lithology Prediction From Core Images and Well Log Data Using Machine Learning Models: A Case Study From the Greater Schiehallion Area, West of Shetland, United Kingdom:** T. P. Martin, R. G. Meyer, Z. R. Jobe
- P35**     **Evaluation Method of Low Permeability Reservoirs Based on Logging Petrophysical Facies Identification: A Case Study of the Upper Member of Mengyin Formation in Gaoqing Area, Dongying Depression:** Y. Wang, S. Yang, X. Wang, Y. Lu
- P37**     **Comparison of Clustering Techniques to Define Chemofacies: Case Study for Mississippian Rocks in the STACK Play, Oklahoma:** D. E. Duarte, R. Pires de Lima, R. M. Slatt, K. J. Marfurt

## Theme 4: Structure and Geomechanics of Unconventional Plays

Co-Chairs: *A. Fernandez and L. Cruz*

- P38**     **Development of an Analytical Method Based on Two Failure Criteria to Study Slip Risk Related to Fluid Injection: Case Study North-Central Oklahoma, USA:** D. E. Duarte, L. J. Candela-Becerra, R. M. Slatt
- P39**     **An Integrated Modeling Approach for Multi-Scale Fault-Related Fractures in Tight Sandstone Reservoirs Based on Structural Control and Geomechanical Method:** H. Li, C. Lin, C. Ma, D. Elsworth, L. Ren, S. Liang, J. Tian
- P40**     **Mechanical Stratigraphy and Barriers to Hydraulic Fracture Growth: Insights From Geomechanical Models:** K. J. Smart, D. A. Ferrill, R. N. McGinnis, A. P. Morris, K. D. Gulliver
- P41**     **Organic Matter Matters! The Role of Organic Matter Composition on Shale Geomechanics:** T. Fender, C. Van Der Land, M. Rouainia, J. Hennissen, S. Graham, T. Wagner
- P43**     **Principal Stress Orientations and Relative Magnitudes in Unconventional Oil and Gas Basins, Western Cordillera and Central and Eastern USA:** J. Lund Snee, M. D. Zoback

- P44 Multiscale Natural Fracture Characterization and Controlling Parameters Contribution Quantification Analysis: Woodford Example:** J. Zhang, D. M. Becerra Rondon, R. M. Slatt
- P45 Natural Fractures Network Development Due to Fluid Production in Anisotropic and Impermeable Granular Materials: Application to Organic-Rich Shales:** A. Zarella, S. Larmier, J. Thomas, M. Régis
- P46 Stress Memory and Overpressure Retention in the Wufeng-Longmaxi in the Vicinity of a Fault Zone:** R. Liu, F. Hao, T. Engelder, C. Teng, S. Xu, Z. Shu
- P47 Mechanical Stratigraphy Controls on Vertical Fracture Patterns in the Upper Triassic Tight Oil Sandstones, Ordos Basin, China:** W. Lyu, L. Zeng, L. Peng, H. Chen
- P48 Deformation Within the Utica/Point Pleasant Reservoir, Northern Pennsylvania and Southern New York: A Case for Seismogenic Origin:** G. C. Bank, T. A. Bardol, A. G. Smith

## Theme 4: Modeling of Structural and Geomechanical Processes

Chair: J. P. Evans

- P49 Implications on Porosity and Fluid Flow From Micro-Scale Parasitic Folding:** X. Liu, A. Eckert\*, P. Connolly
- P50 Dragged and Detached Primary Welds, and Horizontal Axis Rotation of Minibasins During Contractual Reactivation of Salt Ridges: Insights From Analog Modeling:** P. Santolaria, N. Carrera, O. Ferrer, J. Muñoz, C. L. Schneider
- P51 Deformation Mechanism of Unconsolidated Quartz Sands as a Function of Grain Size Distribution: Insights Into Deformation Band Formation in Mixed Aeolian-Fluvial Reservoirs:** K. D. Clark, I. Stimpson, J. D. Bedford, D. R. Faulkner
- P52 Comparison Between Inverted Oblique Rift Sandbox Models and Phitsanulok Basin Structural Styles, Onshore Thailand:** P. Amonpantang, J. Wu, K. McClay
- P53 Quantitative Evaluation of Mechanical Heterogeneity of Sedimentary Sequences:** Y. Pei, T. Li, K. Wu
- P54 Vertical Versus Inclined: A High-Stress Environment Where Deviated Wells are Easier Than Vertical:** J. Avila
- P55 Analog Modeling of Penetrative Strain Around Laramide Structures: Similarities and Differences Between Thick and Thin-Skinned Styles of Deformation:** C. M. Burberry, J. B. Lowe
- P56 Numerical Modeling of Cenozoic Compressional Events of Northwest Himalayas, Pakistan:** M. Miraj, N. Ahsan, H. Mehmood, M. Manzoor
- P57 Preservation of Structural Information Across Prospect Portfolios:** S. A. Stewart, S. N. Awf
- P58 Two Episodes of Structural Fractures: Numerical Simulation of Yanchang Oilfield in the Ordos Basin, Northern China:** Y. Li, Y. Song, J. Ren

- P59 Analogue Modeling of Releasing Steppovers in Strike-slip Faults and Its Application in the Calculation of Strike-slip Displacement:** R. Jian, X. Chen, X. Zeng, X. Ma, X. Zhang
- P60 Geomechanical Analysis of CO<sub>2</sub> Sequestration in the Bakken Formation:** O. Ozotta
- P61 Failure Mechanism of Secondary Fractures Associated With Strike Slip Fault and Its Stress Field Implication:** K. Su, C. Li, J. Ren, H. Zhang, X. Ma

## Theme 1: Source to Sink I

Co-Chairs: M. D. Sullivan, C. Gong, and M. L. Sweet

- P62 Sediment Mass Budget for the Middle Jurassic "Brent Delta" Sediment Routing System, Northern North Sea:** I. C. Okwara, G. J. Hampson, A. C. Whittaker, G. G. Roberts
- P63 Source-to-Sink Analysis of Reservoir Distribution: Lower Eocene Dornoch Delta-Hermod Fan Sediment Routing System, East Shetland Platform, Northern North Sea, United Kingdom:** C. J. Brewer, A. C. Whittaker, G. J. Hampson, G. G. Roberts
- P64 Understanding the Changing Clinoform Architecture of the Late Miocene Cruse Formation, the First Clastic Wedge of the Paleo-Orinoco Delta Onshore Trinidad:** A. Osman, R. J. Steel, R. Ramsok
- P65 Linear-Sourced Slope Channel Systems in High Sediment Supply Basin Margin Clinoforms:** Y. Gan, C. Olaiu, R. J. Steel
- P66 Applications and Method Development for Detrital K-feldspar Common-Pb Provenance Analysis:** E. J. Reat, M. Stearns, C. L. Johnson, D. Fernandez
- P67 Controls on Shelf-Margin Growth and Reservoir Development in an Active, Supply-Dominated and Greenhouse Early Cretaceous Margin Across Timescales:** V. Paumard, J. Bourget, T. Payenberg, A. D. George, R. B. Ainsworth, S. Lang
- P68 Outcrop Examples of Falling Stage Systems Tracts: Quantification and Exploration Significance:** W. Lin, J. P. Bhattacharya
- P69 Links Between Fault Evolution and Drainage Development, and the Influence on Deep Rift Sedimentation, Northwest Shelf Australia's Dampier Sub-Basin:** H. Chen, L. J. Wood, R. L. Gawthorpe, X. Zhu
- P70 Shallow Water Flows in Gulf of Mexico, Relating High Sedimentation Rates to Proglacial Lake Source and Mass Transport Deposits in Deep-water Sink:** T. W. Bjerstedt, K. V. Kramer
- P71 Provenance Evolution and Sedimentary Analysis of the Paleogene Pearl River Mouth Basin, South China Sea: Insights From Integrated Analysis of 3-D Seismic and Detrital Zircon Data:** Z. Zeng, H. Zhu, X. Yang, H. Zeng

## Theme 1: Source to Sink II

Co-Chairs: M. L. Sweet, C. Gong, and M. D. Sullivan

- P72 Tracking Sediments From Source to Sink in the Andean Orogenic Belt and Foreland Basin System:** B. K. Horton, L. J. Jackson, T. N. Capaldi, K. L. Butler, S. W. George, E. G. Gutierrez, C. A. Mackaman-Lofland
- P73 Sediment Routing Analysis of the Early Cretaceous McMurray Formation in East Alberta, Canada:** A. M. Wahbi, M. Blum
- P74 Critical Differences in Sediment Routing From Deltas to Deep-Water Fans Between Marine and Lacustrine Basins: A Comparison of Marine and Lacustrine Aggradational to Progradational Clinothem Pairs:** C. Gong, R. J. Steel
- P75 A Source-to-Sink and Reservoir Quality Prediction Workflow: The Offshore Nile Delta:** L. D. Fielding, L. B. Davies, S. R. Fielding
- P76 Recycling a Sedimentary Basin – Evidence From Microscopic Fluid Inclusions in Detrital Quartz:** B. G. Haile, H. Hellevang, T. G. Klausen, S. Olaussen, C. H. Eide, W. Helland-Hansen
- P77 Provenance and Sandstone Modal Compositional Trends From Upper Cretaceous Nonmarine Siliciclastic Strata of the Sevier Foreland Basin in Northern and Central New Mexico:** S. Bartnik, B. A. Hampton, G. Mack, C. J. Stopka
- P78 Provenance Evolution of Paleocene-Miocene Guadalupe-Live Oak Deltas in South Texas: Insights From Detrital Zircon Geochronology:** J. Xu, J. Zhang\*, J. W. Snedden, D. Stockli
- P79 The Role of Discharge Variability on Environmental Signal Propagation: An Experimental Study:** H. Li, P. Plink-Bjorklund
- P80 Quantifying the Risk on Reservoir Quality with Forward Stratigraphic Modeling in Frontier Areas – Orphan Basin, Canada:** A. Thebault, V. Gervais-Couplet, M. Callies, P. Jermannaud
- P82 Forward Stratigraphic and Organic Matter modeling applied to the Appalachian Basin:** B. Chauveau, D. Granjeon, B. Bruneau
- P83 Controls on Organic Carbon Content of the Lower Cambrian Black Shale in Southeastern Margin of Upper Yangtze:** Y. Zhang, S. Lu, Z. He, S. Jiang

## Theme 5: Unconventional Reservoir Characterization I

Chair: G. Kamat

- P84 A Method for Characterizing Pore Size Distributions of Well Cuttings Utilizing Water Intrusion:** J. Orso, F. Hasiuk, B. Dawson
- P85 Semi-Quantitative SEM Analysis of Vaca Muerta Formation, Neuquén Basin, Argentina:** L. B. Smith, F. G. Tomassini, J. Schieber
- P86 Impact of Kerogen Molecular Structure on Hydrocarbon Recovery: Tracing the Line of Death:** V. Agrawal, S. Sharma
- P87 Quantifying the Influence of Fractures for More Accurate Laboratory Measurement of Shale Matrix Permeability:** S. Peng, B. Ren, M. Meng
- P88 Petroleum Expulsion and Formation of Porosity in Kerogen:** A. A. Brown
- P89 Characterization of Organic Matter Hosted Pores in Cambrian Shale, South China: Implication of a Role of Lithofacies Difference to Pore Development:** X. Tang, J. Zhang, J. Hong, Z. Ma, Y. Li, D. Shao, H. Luo, T. Zhang
- P90 Controls on Mudrock Pore System Development in the Upper Mississippian Barnett Shale, Fort Worth Basin, Wise County, Texas:** R. M. Reed, R. G. Loucks, H. D. Rowe
- P91 Pore Network Heterogeneity in Tight Oil Reservoir Rocks – Analysis From 3-D Confocal Laser Scanning Microscopy (CLSM):** S. Arens, C. W. Bomberger, M. S. Hendrix, M. H. Hofmann
- P92 Pore System Characterization of Wolfcamp Lithofacies, Delaware Basin:** J. J. O'Brien, C. M. Bowie, E. P. Kvale, M.E. Curtis, J.D. Jernigen

## Theme 5: Unconventional Reservoir Characterization II

Chair: D. H. Nicklaus

- P93 The Significance of Framboid-Hosted Porosity in the Marcellus Shale of the Appalachian Basin, USA:** D. R. Blood, G. Lash
- P94 Shelf-Margin Clinoforms of the Vaca Muerta-Picún Leufú System in the Neuquén Basin, Argentina:** L. E. Rueda Sanchez, G. P. Eberli, P. K. Swart, R. J. Weger, M. Tenaglia
- P95 Understanding the Isolated Pores in Bakken Shale Using SANS Method:** K. Liu, M. Ostadhassan, W. Liang, J. Zou, T. Gentzis
- P96 Tepee Buttes, Methane Seeps, and Polygonal Faults, Denver Basin:** S. A. Sonnenberg
- P97 Digital Outcrop Modeling of the Lower Silurian Qusaiba Shale Member – Implications for Reservoir Quality and Architecture, Central Saudi Arabia:** M. S. Osman, O. M. Abdullatif



- P98** **An Integrated Sedimentologic-Chemostratigraphic Study of the Late Devonian-Early Mississippian Chattanooga Shale in Kansas: High Resolution Stratigraphy and Organic Matter Accumulation:** S. Brower, K. Goldberg
- P99** **Upscaling of Wireline Log-Derived Reservoir Properties With Minimum Data Loss:** G. Austermann, D. Harazim
- P100** **Comparison of the Compositional and Mineralogic Control on Rock Strength Between the Middle Bakken and Three Forks Formation, Williston Basin, USA:** . Prather, M. Hemenway, H. Rowe, A. Morrell, P. Mainali, H. Garza, R. Nikirk
- P101** **Petrographic Analysis of Tuscaloosa Marine Shale (Upper Cretaceous) Core Recovered From Eads Poitevent #1:** M. K. Fearn, R. Gottardi, D. Oppo
- P102** **Detailed Sedimentological and Stratigraphic Analysis of the Duvernay Formation in the Kaybob Area, Alberta, Canada:** D. J. Shaw, N. B. Harris

## WEDNESDAY MORNING ORAL SESSIONS

### Theme 10: Deals and Investment Decisions

Hemisfair Ballroom I

Co-Chairs: *R. C. Shoup and H. Manueco*

- 8:00** **Introductory Remarks**
- 8:05** **Adventures in Exploration Deal-Making, Examples, and Lessons:** B. C. Duval
- 8:25** **From Idea Generation to Opportunity Capture:** E. G. Hathon
- 8:45** **Breaking Paradigms to Succeed in the Dnieper-Donets Basin:** T. A. Rehill
- 9:05** **Geologic Drivers of Recent Asset Transactions in Unconventional Resource Plays:** S. Gryger
- 9:25** **Refreshment Break**
- 10:10** **From Discovered Volumes to Development With a Little Help From A&D:** H. Manueco
- 10:30** **Enhance Decision-Making in the Development of Shale Resources:** C. J. Cui, P. K. Galvin, J. Oletu
- 10:50** **Exploration Portfolio Optimization: A Rigorous Tool for Strategic Investment Decisions:** M. Savage
- 11:10** **A Corporate Strategy for Reducing Dry Holes and Improving Resource and Reserve Estimates:** R. C. Shoup
- 11:30** **Assuring Investor Confidence Through Qualified Reserves Evaluators Applying Globally Accepted Principles of Evaluations and Reporting:** R. Harrell

### Theme 5: Eagle Ford and Austin Chalk Unconventional Play

Room 217 B/C

Co-Chairs: *A. S. Douds and A. Fernandez*

- 8:00** **Introductory Remarks**
- 8:05** **Forcing Mechanisms on Late Cretaceous Carbonate Sedimentation: The Austin Chalk Group of Central Texas:** A. Godet, J. R. Cooper, A. Hancock, M. C. Pope, M. Bernardo
- 8:25** **Core-Based Characterization of the Upper Cretaceous Austin Chalk Group in Western Louisiana: Comments on Depositional Setting, Lithofacies, Organic Matter, and Pore Networks:** R. G. Loucks, T. E. Larson, C. K. Zahm
- 8:45** **A Type Cored Section for the Upper Cretaceous Austin Chalk Group in South Texas; Getty No. 1 Lloyd Hurt Well, LaSalle County, Texas:** R. G. Loucks, C. K. Zahm, T. E. Larson
- 9:05** **Carbon-Sulfur Dynamics in the Cretaceous Eagle Ford Formation:** M. Mertesdorf, C. Maerz, U. Mann, S. C. Ruppel, T. Wagner
- 9:25** **Refreshment Break**
- 10:10** **The Maness Shale: A Comparison of the Geomechanical and Mineralogic Properties Within the Lower Eagle Ford Near the San Marcos Arch:** S. Patterson, R. A. Denne
- 10:30** **Porosity Characterization of the Cretaceous Eagle Ford Formation:** I. Gaiani, A. C. Aplin, R. J. Day-Stirrat
- 10:50** **Continuous Mineral Mapping of Core Using Hyperspectral Imaging; Example from the Upper Cretaceous Austin Chalk Marathon 1 Robert Todd Core, Central Louisiana:** T. Kosanke, R. G. Loucks, T. E. Larson, J. Greene
- 11:10** **Seismicity of Eagle Ford Since the Implementation of TexNet Earthquake Catalog January 1, 2017:** S. Whittaker, A. Savvaids, P. H. Hennings, A. Morris
- 11:30** **Mudrock Depositional Environments and Their Significance in Unconventional Resource Plays: An Example From The Cenomanian to Turonian Eagle Ford Group in South and West Texas:** R. A. Conte, M. C. Pope

### Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?

Room 217 D

Co-Chairs: *C. Hern, S. G. Fryberger, and N. Wilkens*

- 8:00** **Introductory Remarks**
- 8:05** **The Eolian Sedimentary Record: What Do We Know and Where Are We Going?:** N. P. Mountney
- 8:25** **How Dunes Move and the Record They Leave Behind:** D. Cousins, C. Hern\*, S. Brooke, M. Gareth, M. Nightingale, R. Westerman, D. Tatum, G. Kocurek, S. G. Fryberger
- 8:45** **An Integrated Approach to Dune System Analysis:** D. Tatum, R. Westerman, C. Hern, J. Buckman, Z. Jiang

- 9:05 **Heterogeneities and Facies Architecture in Aeolian Sands Using Core-Calibrated Borehole Image Logs: Deep-Water Norphlet:** E. Cavallerano, C. Hern, J. A. Palmer
- 9:25 **Refreshment Break**
- 10:10 **Allocyclic Controls Upon Clastic/Evaporitic Interactions in Arid Continental Settings: Implications for Reservoir Characterization and Modeling:** R. Pettigrew, S. M. Clarke, P. Richards
- 10:30 **Autogenic Processes and Environmental Forcings Recorded in Aeolian Stratigraphy I: The Jurassic Page Sandstone, Arizona, USA:** B. Cardenas, G. Kocurek, D. Mohrig, T. Swanson, C. Hughes, S. Brothers
- 10:50 **Autogenic Processes and Environmental Forcings Recorded in Aeolian Stratigraphy II: Numerical Experiments:** T. Swanson, D. Mohrig, G. A. Kocurek, B. Cardenas
- 11:10 **Stratigraphic Forward Modeling for Aeolian Reservoir Prediction: Norphlet (EGOM):** O. Falivene, C. Hern, J. A. Palmer, U. R. Nordlund
- 11:30 **Multi-Resolution Modeling of Ephemeral Fluvial-Aeolian Interactions: Implications for Reservoir Characterization:** C. Priddy, S. M. Clarke, P. Richards

## Theme 4: Modeling of Structural and Geomechanical Processes

Room 214 B/C

Co-Chairs: D. E. Haddad and C. M. Burberry

- 8:00 **Introductory Remarks**
- 8:05 **Faulting Events: Moving Beyond Frictional Thinking:** G. D. Couples, H. Lewis
- 8:25 **Empirical Constraints on Fault Displacement Vectors and Implications for Fault Mechanics and Strain Prediction, Taranaki Basin, Offshore New Zealand:** D. Favorito, A. Hughes
- 8:45 **Flexible Kinematic Modeling Approaches Informed by Observations From Mechanical Forward Models and Natural Structures:** A. N. Hughes, C. D. Connors
- 9:05 **Structural and Mechanical Analyses of Thrust Ramp Development in Mechanically Stratified Sequences:** S. Wigginton, J. P. Evans\*, E. S. Petrie
- 9:25 **Refreshment Break**
- 10:10 **Modeling Natural Fractures in Reservoirs by Incorporating Structural History:** A. Bladon, E. Maccaulay, F. Marks, C. J. Pollock, C. Reilly\*, C. Seiler, M. Valcarcel, A. P. Vaughan
- 10:30 **Deterministic DFN Modeling: A Methodology to Estimate Actual Fracture Plane Size Using Rock Lithology and Microseismic Event Source Information:** S. C. Williams-Stroud
- 10:50 **3-D Forward Geomechanical Modeling of Differential Compaction Fracturing in Carbonate Reservoirs: Insights From Outcrop- and Platform-Scale Models:** Y. Alzayer, C. K. Zahm, M. H. Nazghah

- 11:10 **Rethinking Brittleness — How Viscoplastic Stress Relaxation Affects Layer-to-Layer Stress Variations and Vertical Hydraulic Fracture Propagation in Unconventional Reservoirs:** S. Xu, A. Singh, M. D. Zoback
- 11:30 **Complex Geological Modeling and Fault Seal Using Unstructured Grids:** S. D. Harris, R. K. Davies, S. Santoshini, S. Grenfell

## Theme 1: Applied Ichnology: In Honor of George Pemberton

Room 217 A

Co-Chairs: M. Gingras and J. A. MacEachern

See page 21 for more information on this special session.

- 8:00 **Introductory Remarks**
- 8:05 **The Neoichnological Basis for a Brackish-Water Ichnofacies:** M. K. Gingras, S. E. Dashtgard, A. La Croix, K. L. Bann, J. A. MacEachern
- 8:25 **Neoichnological Characterization of Gironde Estuary and Arcachon Bay, France: Testing the Brackish-Water Model:** S. E. Dashtgard, M. K. Gingras, H. Fénies, R. Bourillot
- 8:45 **Interpreting Heterolithic Fabrics Using Ichnological Relationships: Case Study From the McMurray Formation, Alberta, Canada:** S. Melnyk, M. Gingras
- 9:05 **Ichnology of a Seasonally-Dominated Deltaic / Estuarine Complex: The Pleistocene Palaeo-Kambinaru River, Sumba, East Nusa Tenggara, Indonesia:** J. Zonneveld, Y. Zaim, Y. Rizal, A. Aswan, A. Hascaryo, N. Adani, A. Fortuin, M. Gingras, R. Larick, R. Ciochon
- 9:25 **Refreshment Break**
- 10:10 **Ichnology and Paleoenvironmental Interpretations of the Cretaceous — Paleocene Rift Succession of Northeast Baffin Island Region, Nunavut, Canada:** L. T. Dafoe, J. W. Haggart, G. L. Williams, M. R. Stimson
- 10:30 **The Exploited: Ichnologic Analogs for Multi-Lateral Horizontal Oil Drilling in the Early Cretaceous (Albian) Clearwater Formation, Alberta, Canada:** I. Raychaudhuri, J. A. MacEachern, M. K. Gingras, M. J. Young
- 10:50 **Applied Ichnology in Modeling Mississippian Reservoirs, Upper Midale Beds, Weyburn Oilfield, Saskatchewan: How to Use Paleobiology in Predictions on Dolomitization, Characterization and Compartmentalization?:** A. D. Keswani, S. G. Pemberton
- 11:10 **Using PyCHNO to Generate Training-Image Datasets for Machine Learning Ichnology:** E. R. Timmer, M. Gingras, C. Knudson, J. Zonneveld
- 11:30 **A Forced Regressive Asymmetric Delta, Lower Cretaceous Viking Formation, Kaybob — Fox Creek Fields, Alberta, Canada:** J. A. MacEachern, N. Díaz

## Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface

Room 214 D

Co-Chairs: *S. Wright and T. Zhang*

- 8:00**     **Introductory Remarks**
- 8:05**     **Geochemistry of a Thermally Immature Eagle Ford Group Drill Core in Central Texas:** K. L. French, J. E. Birdwell, K. J. Whidden
- 8:25**     **Asphaltenic-Rich Tar in the Subsurface: Case Study From Reservoir Overburden in a Giant Subsalt Oil Field (Mad Dog, Gulf of Mexico, USA):** B. S. Slotnick, G. Rowe, T. Jia, C. D. Walker
- 8:45**     **Fluids in Nano- and Meso-Pores: Insights Into CH<sub>4</sub>-CO<sub>2</sub>-H<sub>2</sub>O Behavior in Unconventional Reservoirs:** R. Kirkpatrick, G. M. Bowers, N. Loganathan, O. Yazaydin, H. Schaef, J. Loring, D. W. Hoyt, S. D. Burton, E. D. Walter
- 9:05**     **Stable Isotope and Noble Gas Geochemistry of a High-Nitrogen Permian Sandstone Reservoir, Northern Denver-Julesburg (D-J) Basin, Southeastern Wyoming, USA:** C. D. Laughrey
- 9:25**     **Refreshment Break**
- 10:10**     **Simulation of Acidizing Dissolution Front Instability in Carbonate Rocks:** R. Dong, M. Wheeler
- 10:30**     **Organic and Inorganic Geochemistry of the Mississippian Limestone in the Anadarko Shelf:** O. O. Adebayo, I. Al Atwah, N. Riedinger, T. M. Quan
- 10:50**     **Application of Raman Spectroscopy in Understanding Organic Matter Heterogeneity and Maturation Rate:** S. Khatibi, M. Ostadhasan, P. C. Hackley\*, D. Tuschel, B. Bubach
- 11:10**     **Source Rocks of the Paratethys Region (Central Europe to Central Asia): Regional Distribution and Implications for Hydrocarbon Exploration:** R. F. Sachsenhofer, A. Bechtel, R. Gratzner, G. Tari
- 11:30**     **Fluid-Rock Interaction and Hydrocarbon Migration: Quantifying Wettability-Affected Advection and Diffusion Processed in Various Reservoir Rocks:** Q. Hu

## Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction

Room 214 A

Co-Chairs: *T. Buono and S. Zhang*

- 8:00**     **Introductory Remarks**
- 8:05**     **Elucidating Dolomitizing Conditions and Potential Recrystallization Using Textural and Geochemical Relationships: A Case Study From the Ummer Radhuma Formation, Qatar:** B. H. Ryan, S. E. Kaczmarek, J. M. Rivers
- 8:25**     **Reactive Transport Modeling Approach to Studying Silicification of Carbonates:** B. Garcia-Fresca, T. Gabellone, F. F. Whitaker

- 8:45**     **Calibration of NMR Permeability Using Cluster Analysis and Cloud Matching:** A. Arora, J. Browning, S. K. Henderson, G. B. Asquith, S. Gorell, A. Ettehadtavkhd
- 9:25**     **Refreshment Break**
- 10:10**     **NMR Characterization of Micro- to Nanoporosity Within Diagenetically Complex Carbonate Reservoirs: Mississippian-Aged Carbonates (Reno County, Kansas):** I. Y. Bode-Omoleye, C. Zhang, M. G. Grammer
- 10:30**     **Experimental Insights on Mineralogical Stabilization in Carbonates:** M. Hashim, S. E. Kaczmarek
- 10:50**     **Integration of NMR, MICP, and Quantitative Digital Petrography for Improved Understanding of Carbonate Pore System Complexity:** A. S. Buono, E. M. Bunge, S. M. Fullmer, K. C. Galvez, P. J. Moore, O. Ijasan, J. M. Rivers
- 11:10**     **Statistical Characterization of Non-Matrix Porosity and Permeability in a Devonian Dolostone Reservoir from Alberta Canada:** J. B. Dunham
- 11:30**     **Magnesium-Rich Rims in Calcite Microcrystals: Possible Cause of Water-Wet Conditions in Microporous Tor Formation Depositional Chalk:** C. J. Rinderknecht, F. Hasiuk

## Theme 7: Remote Sensing, Monitoring, and Regional Studies, and Gulf of Mexico

Room 213 A/B

Chair: *TBD*

- 8:00**     **Introductory Remarks**
- 8:05**     **A Parsimonious Approach to Gravity Inversion for Salt Shape Delineation:** S. Re, L. D. Masnaghetti, E. Medina
- 8:25**     **Enhancement of Anomalies in Time-Lapse Seismic Data by Means of Principal Component Analysis:** T. S. Ruchiga, R. D. S. Portugal, M. Xavier
- 8:45**     **Crustal Structure of the Onshore Cenozoic Niger Delta Basin, Interpretations From High-Resolution Gravity and Magnetic Data:** L. N. Onuba
- 9:05**     **Refracture Candidate Selection Considering Natural Fracture Orientation in the Near-Fault Damage Zone:** T. Ramsay, L. Hernandez, J. Li, M. Erdogan
- 9:25**     **Refreshment Break**
- 10:10**     **New-Old Potential Field Data in the Alaska OCS:** M. Unger
- 10:30**     **Identifying and Drilling Through Intra-Salt Hazards – A Case Study From Stampede Field, Deep-Water Gulf of Mexico:** G. K. Mohapatra, E. Moran, M. Sasser, S. Uchytel, W. Martins, J. Lopez
- 10:50**     **Exploration in the Atlantic Conjugate Margin Using CSEM Data as Part of an Integrated Workflow:** P. T. Gabrielsen, D. Helland Hansen, V. Ricoy-Paramo\*, T. de Souza Dumas, L. Berre
- 11:10**     **Comparing Stratigraphic Architecture and Petroleum Systems Across the South Atlantic Margin:** K. McDonough, B. W. Horn, K. R. Reuber, F. Brouwer, K. McDermott
- 11:30**     **Modeling and Monitoring Reservoirs Over Their Lifetimes:** M. L. Oristaglio, S. Oppert, J. Stefani, J. Herwanger, P. Popov, L. Tan



## WEDNESDAY MORNING POSTER SESSIONS

Exhibit Hall 9:00 am–12:00 pm

(Presenters will be in their booths 9:30 am–11:00 am)

### Theme 6: Sustainability and Carbon

Chair: *S. Bakhshian*

- P1 Regional Assessments of Onshore and Offshore CO<sub>2</sub> Storage Potential for the MRCSP:** L. Cumming
- P2 Microbial Resetting After a CO<sub>2</sub> EOR Flood May Allow Stimulation of Microbial Methanogenesis to Recover Residual Oil:** J. L. Shelton, R. Andrews, D. Akob, C. DeVera, A. Mumford, J. C. McIntosh, J. McCray
- P3 An Overview of the MRCSP Petroleum Fields 2018 Database Release:** J. E. Lewis, C. Kristin, P. Dinterman, T. Sparks, W. Harrison, C. Medina, J. Moore, R. Ott, B. Slater, M. Solis
- P4 Explorations in TOC for Assessment of CO<sub>2</sub> Storage and Enhanced Gas Recovery for the Middle Devonian Marcellus and Upper Ordovician Utica Shales for the Midwest Regional Carbon Sequestration Partnership:** B. C. Nuttall, T. N. Sparks, S. F. Greb
- P5 Simulation Study of CO<sub>2</sub> EOR and Storage Potential of the Commercial-Scale Integrated CCUS Demonstration Project in the Ordos Basin, China:** H. Wang, Z. S. Jiao
- P6 CO<sub>2</sub> Mineralization in Natural Analogs of the Yinggehai Basin, Northern South China Sea:** R. Liu, N. Heinemann, J. Liu, W. Zhu
- P7 Application of Machine Learning for WAG Parameters Optimization in CO<sub>2</sub>-EOR and Geological Carbon Sequestration:** Z. Zhong, A. Sun
- P8 Reservoir Numerical Simulation for CO<sub>2</sub> Sequestration in Paraná Basin, Brazil:** N. Weber, C. Tassinari, M. A. Pinto, D. Peyerli\*
- P9 Assessing the Potential for CO<sub>2</sub> EOR and CO<sub>2</sub> Storage in Depleted Oil Pools in Southeastern Saskatchewan, Canada:** G. K. Jensen
- P10 How a Carbon Tax Could Benefit US Natural Gas Producers, But How Much and For How Long?:** J. M. Rine
- P11 Characterization of the High Island 24L Oil and Gas Field for Modeling and Estimating CO<sub>2</sub> Storage Capacity:** I. Ruiz, T. Meckel

### Theme 5: International Unconventional Plays

Chair: *T. Kosanke*

- P12 Mapping of TOC Rich Intervals in the Vaca Muerta Formation:** M. Tenaglia, R. J. Weger, G. P. Eberli, J. K. Swart
- P13 Hydrocarbon Accumulations in and Around Basalts in the Cenozoic of Northeast Bohai Bay Basin, China:** Y. Huang, Q. Leng, J. Zhao, S. Wang

- P14 Assessment of Storage and Productivity Potential of a Frontier Unconventional Shale Oil Play in a Rift Basin, Lower Barmer Hill Formation, Barmer Basin, India:** U. Kuila, B. N. Naidu, V. R. Sunder, D. Beliveau, J. C. Dolson, A. Mandal, S. Dasgupta, P. Mishra, P. Mohapatra
- P15 Calm Harbor Hypothesis: Chances for China's Shale Gas Exploration in Structurally Complex Areas:** L. Song, J. Zhang, F. Pang, S. Li
- P16  $\delta^{13}\text{C}$  as a Proxy of Paleoenvironmental Water Conditions During Deposition of the Vaca Muerta Formation (Tithonian–Early Valanginian)—Neuquén Basin:** L. Rodriguez Blanco, G. P. Eberli, P. K. Swart, R. J. Weger, M. Tenaglia
- P17 Unconventional Oil Play Assessment in Northeastern British Columbia, Canada:** B. J. Hayes, R. Wust, C. Salas, H. Anderson
- P18 Reservoir Facies Within a Basin Centered Gas Accumulation, Thrace Basin of Northwest Turkey:** R. Sadownyk, T. F. Moslow\*
- P19 Organic-Rich Shale Wettability and Its Controlling Factors: Comparative Investigations of Typical Marine, Continental, and Transitional Shales in the Middle Yangtze Platform (China):** R. Yang, S. He, Q. Hu, G. Zhai, J. Yi
- P20 Selecting an Appropriate Unconventional Play Analog for the Bowland Shale While Acknowledging Operational Constraints in the United Kingdom:** R. Harrison, T. Oueidat, G. Falcone
- P21 Compaction Index for Mudstone in the Vaca Muerta Formation, Neuquén Basin, Argentina:** D. F. McNeill, L. Rodriguez-Blanco, R. J. Weger, M. Tenaglia, J. Schnyder, G. P. Eberli
- P22 Analysis of the Metre-Scale Depositional Architecture of the Montney Formation in Outcrop Using UAV Technology: Implications for Sedimentology, Sequence Stratigraphy, and Reservoir Characterization:** S. Poirier, P. K. Pedersen

### Theme 3: Hydrocarbon Migration and Charge Risk Assessment

Co-Chairs: *Q. Liu, N. Kuszniir, and Y. R. Zhao*

- P23 Influence of Gas and Oil State on Oil Mobility and Sweet Spot Distribution in Tight Oil Reservoirs From the Perspective of Capillary Force:** Y. Li, Y. Song
- P24 Geochemical and Fluid Inclusions Analyses of Several Calcite Veins and Matrix Within the Vaca Muerta Formation, Neuquén Basin, Argentina:** S. Larmier, A. Zanella, J. Pironon, C. La, A. Lejay, R. Mourgues, F. Gelin
- P25 Experimental Study on the Influence of Bitumen on Natural Gas Generation:** H. Gai, H. Tian, P. Cheng, T. Li, X. Wang

- P26** **Petroleum System Insights of Newfoundland and Labrador from Fluid Inclusions:** J. Chao, D. Hall, R. Lishansky, R. Moore, S. Feiner, N. Mozhaeva, M. Palowesyk, W. Phukhao
- P27** **The Genetic Mechanisms and Characteristics of Hydrocarbon Migration Induced by Overpressure in the Yinggehai Basin, South China Sea:** C. Fan, Y. Zhang, Y. Deng, H. Li, J. Hou
- P28** **Apatite Fission Track Thermochronology in 2-D Basin Modeling – A Case Study of a Frontier Basin in a Fold and Thrust Belt:** M. Schwangler, N. Harris
- P29** **Inefficient Charge-Migration or Poorly Characterized Traps:** T. A. Murray, W. Power, S. Sosio de Rosa, Z. Shipton, R. Lunn, D. R. Richards

## Theme 1: New Advances in Mature Basins

**Co-Chairs:** G. Baudot, B. W. Driskill, and E. Pliego-Vidal

- P30** **Trap and Fault Analysis: Revisiting Texas Gulf Coast:** T. A. Murray, T. M. Helm, W. Power
- P31** **A Novel Methodology of Using Well Log Analyses to Identify Brownfield and Greenfield ROZs in the Illinois Basin:** N. Grigsby, N. Webb, S. Frailey
- P32** **CO<sub>2</sub> Storage and EOR Resource Assessment of the Cypress Sandstone Residual Oil Zone Play in the Illinois Basin:** N. Webb, N. Grigsby, S. Frailey
- P33** **New Opportunities in Old Fields: A Case Study From Dahomey Basin, Offshore West Africa:** I. J. Ayodele, C. Cavalleri, E. B. Benard, A. Orimolade
- P34** **Paleo-Canyons and Contemporaneous Oil Seeps Near the Paleocene/Eocene Boundary, Tampico-Misantla Basin, Eastern Mexico:** S. P. Cossey, M. R. Bitter, J. Dickens, D. S. Van Nieuwenhuise, J. L. Pindell, J. H. Rosenfeld, A. Beltran, P. Cornick, C. Agnini
- P35** **A Collective Proven Play of Paleogene Lacustrine Rift Basins in Western Indonesia:** E. H. Sihombing, L. J. Wood
- P36** **Petroleum Geological Exploration Technology – Innovation Strategies, Upper Rotliegend, Polish Permian Basin:** K. Wolanski, S. Chruscinski, A. Wolanska, A. Chmielowiec-Stawska
- P37** **Provenance Analysis of Neogene Guantao Formation in Bodong Sag, Bohai Bay Basin, Eastern China: Implications for Sediment Routing:** Z. Sun, H. Zhu, C. Xu, X. Du
- P38** **Paleogeographic Reconstruction and Characteristic Trends of a Basin Floor Fan in Los Molles Formation, Neuquen Basin, Argentina:** G. Giacomone, C. Olariu, R. J. Steel, M. Shin
- P41** **Implications for Lower Cretaceous Reservoir Distribution and Geologic Controls for Shelf-Edge Delta Successions; North Slope Alaska:** S. R. Nolan, J. Aschoff

## Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

**Co-Chairs:** M. Lorente, M. Bolivar, and S. Jactett

- P39** **Palynofacies: An Under-Utilized Tool in the Hydrocarbon Industry. Methodology, and Applications:** K. Ruckwied, I. M. Prince
- P40** **To Frack, Follow Heterohelids' Track:** K. Elderbak, R.M. Leckie, C. M. Lowery
- P42** **Petrographic and Biostratigraphic Study on a Representative Core Section From the Kurdistan Region of Iraq:** F. Russo, M. Kariminia, C. Wells, F. Ollivier, T. P. Burchette
- P43** **Ichnologically Distinct Thin-Bedded Turbidite Facies in Lobe Sub-Environments, Upper Cretaceous Nanaimo Group, British Columbia, Canada:** M. M. Walters, J. A. MacEachern, S. M. Hubbard
- P44** **Contributions From Morphological Analysis in Calcareous Nannofossils to Biostratigraphic Resolution:** D. Bord
- P45** **Gulf of Mexico Neogene Astronomically-Tuned Biostratigraphic Time Scale:** J. Bergen, S. Truax, E. de Kaenel, S. Blair, E. Browning, J. Lundquist, T. Boesiger, M. Bolivar, K. Clark\*
- P46** **Paleobathymetric Interpretation Via Analog Analysis:** E. Platon, J. Vinnels, C. Steffensen
- P47** **Neogene Changes in Caribbean Paleoproductivity and Paleobathymetry of Deep-Sea Benthic Foraminifera, With Implications for the Gulf of Mexico:** C. R. Pletka, L. S. Collins
- P48** **The Critical Role of Ichnology in Recognizing the True Last Big Marine Transgression of the Western Interior Sea: Paleocene Ferris Formation, Southern Wyoming:** A. Wroblewski, R. Dunn
- P49** **The Case for Erecting Two New Seilacherian Ichnofacies for Deltaic Successions: The *Rosselia* Ichnofacies and the *Phycosiphon* Ichnofacies:** K. L. Bann, J. A. MacEachern
- P50** **Evidence for an old Paraná Delta and Diachroneity in Global Highstands:** R. Stieffel, J. M. Holbrook, D. Kröhlhng, J. Roldan
- P51** **A Multidisciplinary Study on a Representative Section From Masirah Basin-Oman:** F. Russo, C. Brown, R. E. Hinote, J. Hodson, M. Kariminia, M. A. Lorente, C. Wells

## Theme 4: Global Perspectives on Compressional Deformation

Co-Chairs: *N. Eichelberger and J. W. Granath*

- P52** **Insights Into the Occurrence of Intraplate Strike-Slip Deformation in the Foreland Llanos Basin, Colombia:** P. A. Galindo, J. E. Calderon, G. Zarate, A. Hurtado, C. J. Sanchez
- P53** **Structural Transition From Cordoba Platform to Veracruz Basin (Mexico):** V. Egorov, M. Kaminski, A. Rovirosa, A. Hinojos
- P54** **Geology and Tectonic of the Sulaiman Fold Belt, Pakistan:** I. A. Jadoon, M. O. Zeb
- P55** **Dynamics of the Sub-Salt Structural Transitions in the Kuqa Foreland Basin and Its Implication for Hydrocarbon Explorations:** J. Liu, B. Zhao, Y. Liu, Y. Gu, J. Xu, N. Gao, Y. Wang, X. Liu
- P56** **A Promising Hybrid Strike-Slip Associated Structure for Hydrocarbon Accumulation: A Case Study on JZ27-6 Oil-Bearing Structure in the Bohai Sea Area, East China:** G. Wang, S. Li, Y. Hu, Z. Wu, S. Xing, W. Zhao
- P57** **Structural Characteristics of Fault Systems and Controlling Factors of Hydrocarbon Accumulation in the Cenozoic Faults Intersection Area of the Southern Bohai Sea, Eastern China:** X. Zhang, Z. Wu, W. Li, J. Ren, B. Yang
- P58** **Tectonic Characteristics of Tan-Lu Fault Zone (East China) in the South of Bohai Sea Area and Its Controls on Hydrocarbon Accumulation:** Q. Zhang, K. Wu, H. Yang, Z. Wu, W. Li, X. Chen, X. Zhang, T. Guo
- P59** **Characteristics of the Strike-Slip Faults and the Fault-Karst Reservoirs in the Halahatang Oil Field, Tarim Basin:** X. Zheng, H. An, P. Ma, Z. Wang, H. Zhou, L. Zhang
- P61** **Basement-Driven Deformation of the Sedimentary Sequence in North-Central Oklahoma:** F. Kolawole, B. Carpenter, Z. Reches, M. J. Turko Simpson

## AAPG Student Research Poster Session II

Co-Chairs: *B. Stickland and A. Urvu*

- P62** **Present-Day Stress State Prediction of a Tight Gas Reservoir Using Geomechanical Models – A Case Study From the Lower Magdalena Valley Basin, Colombia:** C. I. Guerra, K. Fischer, A. Henk
- P63** **Deltaic Facies Relationships in an Asymmetric Pull-Apart Basin, Lake Izabal, Guatemala: A Case Study From Short Sediment Cores and Geophysical Data:** E. Duarte, J. Obrist-Farner, N. J. Wattus
- P64** **Diagenesis of the Arbuckle Group in Eastern and Central Oklahoma:** P. Bailey, J. M. Gregg
- P65** **Timing of Paleozoic-Cenozoic Tectonic Events in the Permian Basin, West Texas, From Integrated Subsidence and Structural Studies:** H. Zhang, P. Mann
- P66** **Stratigraphic Evolution of Confined Deep-Water Basins: Insights From Physical Models and Outcrop Analogs:** E. Soutter, Z. Cumberpatch, D. Bell, I. Kane, R. Ferguson, Y. Spychala, J. Eggenhuisen

- P67** **Porosity Characterization of Organic Shale Using NMR Technique: A New Method Considering Shale Skeleton Signal:** J. Li, S. Lu, M. Wang, G. Chen
- P68** **Experimental Analysis of Tight Rock Clay Cation Exchange Capacities and Modeling of Properties Critical to Reservoir Desiccation:** S. Smith, M. Shebl, S. McWhorter, S. Greg
- P69** **Gravity-Driven Deep-Water Fold-and-Thrust Belts Along the Continental Passive Margin of East Africa and Their Control on Petroleum Play:** C. Zhang, J. Cai\*, Y. He, D. Wu
- P70** **Geochemical and Microfacies Implication of the El Pujal Section at the Close of Carbon Isotope Segment C5: Organyà Basin, Catalunya, Spain:** J. Socorro, F. J. Maurrasse
- P71** **3-D Seismic Characterization of Sand Injectites in the Palaeogene Succession of the Northern North Sea:** S. Nnorom, M. Huuse
- P73** **Testing the Two-Stage Triassic-Jurassic Opening Model for the Gulf of Mexico From Faults Bounding Shallowly Buried Rifts in the Southeastern Gulf of Mexico:** M. P. Zinecker, P. Mann
- P74** **Reservoir Prediction Based on Geostatistical Inversion by the Facies Trend Model: A Case Study From the Gudian Block, Northeast China:** W. Wang
- P75** **Developing an Open Shelf Shale Depositional Model: The Early Ordovician Tøyen Shale Formation Example:** A. Novak, S. O. Egenhoff
- P76** **Autogenic Progradation and Retrogradation Patterns in Deltaic Strata Generated by the Interplay Between Discharge and Basin Geometry:** L. Stodden

## SEPM Student Research Poster Session II

Co-Chairs: *H. E. Harper and J. F. Sarg*

- P77** **Architectural Variability of a Deep-Water Slope Channel Complex Above a Sequence Boundary, Isaac Formation, Neoproterozoic Windermere Supergroup, Southern Canadian Cordillera:** P. Fraino, L. L. Navarro, B. Arnott
- P78** **Lacustrine Carbonate-Siliciclastic Clinofolds in the Lower-Permian Lucaogou Low-Order Cycle, Southern Bogda Mountains, Northwest China:** Y. Lu, W. Yang
- P79** **Depositionally Conditioned Training Images for Fluvial Sandstone Reservoir Models: Examples From the Lower Castlegate Sandstone, Utah, USA and Jamuna River, Northern India:** A. J. Mitten, J. Mullins, J. K. Pringle, J. A. Howell, S. M. Clarke
- P80** **Analysis of the ~2.57 Ga Hamersley Basin Using Statistical and Petrographic Techniques:** K. S. Korman, A. K. Davatzes
- P82** **Mixed Signals: Using Numerical Modeling to Disentangle Milankovitch Cycles in a Complicated Outcrop:** D. Beelen, F. J. Hilgen
- P83** **Three-Dimensional Outcrop Model of an Evolving Supercritical Fan in the Early Gulf of California:** L. M. West, C. Olariu, M. M. Perillo, D. Mohrig, J. A. Covault, R. J. Steel



- P84** Sequence Stratigraphy in Mudstone Intervals Using Chemostratigraphic Datasets: An Example From the Devonian Canol Formation: M. T. LaGrange, B. S. Harris, K. M. Fiess, V. Terlaky, M. K. Gingras
- P85** Pennsylvanian-Permian Climatic Records From Low Latitude Rainsville Trough in Northern New Mexico: N. Chowdhury, D. Sweet

## Theme 8: Application of Machine Learning to Imaging

Chair: C. Shrivastva

- P86** Utilization of High-Resolution Short- and Long-Wave Hyperspectral Imaging for Integrative Rock Typing: X. Liu, T. Kosanke
- P87** Obtaining Geomechanical Information From Hyperspectral Imaging of a Shale Core, Horn River Basin, Western Canada: N. B. Harris, B. Rivard, J. Feng, A. Moghadam
- P88** Convolutional Neural Networks for Semantic Segmentation of Micro-Pores in SEM Based Images of Shales: K. Ikeda, E. J. Goldfarb, N. Tisato
- P89** Hyperspectral Imaging of the Leonardian Third Bone Spring Shale, Collier 1201 Core, Delaware Basin: Application and Results: T. H. Kosanke, R. G. Loucks, T. E. Larson, J. Greene, P. Linton
- P90** Characterizing Fluvial Architecture Using UAV-Based Photogrammetry and Outcrop-Based Modeling: Implications for Reservoir Performance, Southwestern Piceance Basin, Colorado: M. J. Pranter, S. A. Clark, K. D. Lewis, J. J. Tellez, Z. A. Reza, R. D. Cole
- P91** Long-Wave Infrared Core Imaging for Oil and Gas Applications: P. Linton, D. Browning\*, T. H. Kosanke, J. Greene
- P92** Automated Grain Tracing and Point Counting Using Machine Learning: D. Tang, K. T. Spikes, K. L. Milliken
- P93** Application of Multiple Hyperspectral Imaging Tools to the Examination of Submillimeter Variability in Geochemical Reference Materials From Major USA Shale Plays: J. E. Birdwell, C. Draves, G. Kemeny, S. Whaley, S. A. Wilson

## Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent

- P94** Far-Field Tectonic Controls on Deposition of the Ordovician Utica/Point Pleasant Play, Ohio Using Core Logging, Well Logging, and Multi-Variate Analysis: J. M. Bloxson
- P95** Powder River Basin Unearthed...Will it be the Next Big Shale Play?: A. T. Folaranmi
- P96** Regional Correlation and Mapping of Niobrara in the Powder River Basin, Wyoming: Z. Li, R. Taylor, A. Perez, G. Spence
- P97** Source Rock Potential Evaluation of the Eagle Ford – Austin Chalk Transition in San Antonio, Texas: G. C. Velko, A. Gupte, J. R. Cooper, A. Godet
- P98** Scolicia-Dominated Levee Deposits, Upper Cretaceous Nanaimo Group, Salt Spring Island, British Columbia, Canada: M. Walters, J. A. MacEachern, S. M. Hubbard
- P99** Updated Assessment of Undiscovered Continuous Tight Gas Resources in the Williams Fork and Wasatch Formations, Piceance and Uinta Basins, Colorado and Utah: R. M. Drake

## WEDNESDAY AFTERNOON ORAL SESSIONS

### Theme 10: Financing

Henisfair Ballroom I

Co-Chairs: L. T. Billingsley and A. Sandlin

- 1:15** Introductory Remarks
- 1:20** The Development of an Entrepreneur: From a Dream to a Reality: D. Stoneburner
- 1:40** Criteria for Choosing Partner Teams: Private Equity's Perspective: E. C. Nielsen
- 2:00** Evaluating Private Equity Companies: D. G. Burdick
- 2:20** Building a Private Equity Company: Steps, Dos, and Don'ts: R. D. Fritz
- 2:40** Expanding the Southern Delaware Basin Core Through Subsurface Understanding and Engineering Execution: M. Hiduke
- 3:00** Break
- 3:10** Minerals and Royalties: Geos Can Too: K. L. Luchtel Ferguson
- 3:30** Non-Operated Underwriting: Steps to Successful Evaluation: A. Willbern
- 3:50** Funding Your Projects With International Investors: How, When, Where: S. A. Tedesco
- 4:10** Financing the New Data Science Businesses of Geology: The Experiences of AAPG's U-Pitch: S. S. Nash

## Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies

Room 217 B/C

Co-Chairs: B. C. Riley and D. L. Cannon

- 1:15**     **Introductory Remarks**
- 1:20**     **Visualizing Depletion and Depletion-Induced Stress Changes in Unconventional Reservoirs:** M. D. Zoback, L. Jin
- 1:40**     **Machine Learning for Rapid Lithotype Classification From Multi-Log Suites to Assist Interpretation and Property Modeling:** W. Bashore
- 2:00**     **A New Approach to Refine and Quality Control Correlations in Shale and Siltstone Formations Based on Principal Component Analysis of XRF Data:** J. D. Chatellier, T. Euzen, A. Cheema
- 2:20**     **From Unconventional Reservoir Characterization, 3-D Seismic Multi-Attribute Analysis and Machine Learning Guided Geocellular Modeling to Well Performance (EUR) Simulation: Woodford Shale Case Study in North of Oklahoma, USA:** E. J. Torres Parada, S. Sinha, L. E. Infante-Paez, R. M. Slatt, K. J. Marfurt
- 2:40**     **Diagnostics and Uncertainty Characterization of Tight Liquid Production With Phase Behavior: Insights From Case Study in the Delaware Basin:** C. Varady, J. Pantano, D. A. McVay
- 3:00**     **Break**
- 3:10**     **Probabilistic Approach for Estimating Reservoir Quality and Calculating Water Saturation: Montney Formation, Western Canada:** N. Vaisblat, E. V. Eslinger, N. B. Harris
- 3:30**     **Load Recovery in Hydraulic Fracturing: Insights Into Fracture Surface Area:** A. Moghadam, N. Vaisblat, N. B. Harris, R. Chalaturnyk
- 3:50**     **Unraveling the Source and Dynamics of Produced Water From Hydraulically Fractured Middle Bakken and Three Forks Wells in the Williston Basin, North Dakota Using Novel Water Geochemical Methods:** S. Wright, J. Pantano, S. G. Franks, M. H. Kloska, J. M. Wolters
- 4:10**     **Unconventional Development and Production Geochemistry – Oil, Natural Gas and Water Geochemical Data Provide Evaluation Workflows Through the Lifecycle of a Well:** M. P. Dolan, B. C. Burke, P. Travers, S. Hodgetts
- 4:30**     **Quantitative Calibration of Hyperspectral Core Imaging Data: A New Method for Producing Continuous, High-Resolution Mineralogical Characterization of Cores From Both Conventional and Unconventional Reservoirs:** J. Greene, T. H. Kosanke, P. Linton

## Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

Room 217 D

Co-Chairs: M. Bolivar, I. Prince, and M. Lorente

- 1:15**     **Introductory Remarks**
- 1:20**     **The Role of Biostratigraphy and Biochronology in Constraining Sequence Stratigraphic Interpretation:** M. Aubry
- 1:40**     **Orbital Forcing Cyclostratigraphy of Miocene Formation in the South of Albert Rift, Uganda:** W. Xu, Y. Zhang, L. Fang, L. Song
- 2:00**     **Review of the Gulf of Mexico Neogene Astronomically-Tuned Biostratigraphic Time Scale and Its Potential Applications to Enhanced Basin Description and Constraint of Climatic Events at the Level of Cyclostratigraphy (Eccentricity):** E. Browning, J. Bergen, S. Truax III, E. deKaenel, S. Blair, J. Lundquist, T. Boesiger, M. Bolivar, K. Clark
- 2:20**     **Integrated Work Flow for Stratigraphic, Paleoclimate, Provenance Analysis and Prediction (Gulf of Mexico):** E. Platon, D. Buechmann, J. Vinnels, L. Yu, J. Kalinec, P. Cornick, N. Campion
- 2:40**     **A Sequence Stratigraphic Framework for the Wilcox Group, Gulf of Mexico:** P. Cornick, N. Campion, I. Prince
- 3:00**     **Break**
- 3:10**     **Generating Well-Constrained Chronostratigraphic Age Models: Case Study From the Late Paleocene Through Middle Eocene When Major Carbon Cycle Changes Took Place:** B. S. Slotnick, G. R. Dickens, C. Hollis, J. Crampton, P. Strong, E. Dallanave, C. Agnini, J. Zachos
- 3:30**     **Improving Global Stratigraphic Resolution and Timescales for the Late Cretaceous: Carbon Isotope Chemostratigraphy and Integration With Biostratigraphy, Geochronology, and Orbital Tuning:** I. Jarvis
- 3:50**     **Foraminifera and Geochemistry to Solve Stratigraphic Problems, Sea Level Change, and Water Mass History: Mesozoic Case Studies:** R. M. Leckie, A. Alibrahim, R. Bryant, S. Dameron, K. Elderbak, C. M. Lowery
- 4:10**     **Temporal Constraints on Submarine Slope Channel System Evolution, Late Cretaceous Nanaimo Group, British Columbia, Canada:** R. G. Englert, S. M. Hubbard, W. A. Matthews, D. Coutts, H. Bain, J. A. Covault
- 4:30**     **Nannofossil Paleoecological Indices: Implications for Reservoir Characterization, Petroleum Systems and Sequence Stratigraphy:** A. Avery, R. D. Weber

## Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs

Room 214 B/C

Co-Chairs: T. L. Davis and E. S. Petrie

- 1:15**     **Introductory Remarks**
- 1:20**     **What Drives the Formation of Natural Fractures in Unconventional Reservoirs?:** P. Eichhubl, J. F. Gale, S. E. Laubach, A. Fall, E. Ukar
- 1:40**     **Opening-Mode Fracturing and Cementation Timing in the Barnett Shale, Delaware Basin, West Texas:** J. F. Gale, A. Fall, W. A. Ali, S. E. Laubach, P. Eichhubl, R. Bodnar
- 2:00**     **Which Fault Matters: Evaluation of Reservoir Compartmentalization by Integration of Borehole Image and Real-Time Isotope Data  $\delta^{13}\text{C}_1$ :** N. Ha, C. Murlidhar\*, A. Brem, V. Vevakanandan, T. Zhang
- 2:20**     **Relationship Between Shortening in the Zagros Fold, Thrust Belt, and Natural Fracture Orientation: A Case Study From Kurdistan Region of Iraq:** S. Banerjee, A. E. Whitaker, K. Kelsch, D. F. Goff
- 2:40**     **Innovative Workflow for Fracture Characterization and Its Utilization in Development of Naturally Fractured Carbonate Reservoirs: A Kuwait Case Study:** C. Pattnaik, V. K. Kidambi, S. R. Narhari, N. Al-Ajmi, M. Al-Dousiri
- 3:00**     **Break**
- 3:10**     **Fracture or Band? – A Transitional Type of Deformation Feature With Surprising Flow Effects:** H. Lewis, G. D. Couples, J. Buckman, Z. Jiang
- 3:30**     **Sealing or Breaching? Predicting Seal Failure Mechanisms Across a Sedimentary Basin: An Exercise in the Caswell Sub-Basin:** K. Tsutsui, K. Nifuku, Y. Totake\*
- 3:50**     **Fractured Reservoir Analogs: From Virtual Outcrops to Discrete Fracture Models:** R. R. Jones, J. Long, S. Daniels
- 4:10**     **Stress Field and Fracture Analysis of Paleocene Rock Unit Using Borehole Image Data and 3-D Seismic Interpretation of Kohat Foreland Basin, Pakistan:** R. H. Inam, M. I. Khan, M. U. Zafar, M. Miraj
- 4:30**     **A New DFM Dynamic Modeling Workflow Through a Non-Intrusive EDFM Method to Quickly Calibrate Fracture Model With Production Data: Practical Application on a Granite Reservoir Case:** X. Li, C. Lei\*, J. Miao, R. Wang, F. Medellin, F. Xu, W. Yu, K. Sepehrnoori

## Theme 9: New Global Exploration and Play Concepts

Room 217 A

Co-Chairs: A. Scardina and C. Marcellari

- 1:15**     **Introductory Remarks**
- 1:20**     **Tectonostratigraphy of The Frontier Basins of the Central and Eastern Gulf of Mexico:** R. P. Pascoe, P. Nuttall
- 1:40**     **Foz do Amazonas and Pará-Maranhão Ready to Replicate Guyana Success:** P. V. Zalan, N. Hodgson, M. Saunders
- 2:00**     **The History and Areal Distribution of Exploration Drilling Targets Categorized by Play Type, North Slope and Offshore Arctic Alaska:** L. S. Gregersen, G. A. Brown
- 2:20**     **Geological and Petroleum Systems Framework of the ANWR Coastal Plain (Arctic National Wildlife Refuge 1002 Area):** D. W. Houseknecht
- 2:40**     **Heavy Minerals and U-Pb Zircon Ages of Upper Jurassic Reservoirs in the Flemish Pass and Orphan Frontier Basins, Offshore Newfoundland:** P. Sylvester, A. Souders
- 3:00**     **Break**
- 3:10**     **Deep-Water Northern Argentina – A New Frontier:** S. DeVito
- 3:30**     **Defining New Exploration Play Potential in the Offshore Sirt Basin and Cyrenaica Margin, Libya, Using Mega-Regional 2-D Seismic Data:** L. Fullarton, K. McDermott, E. Gillbard, P. Bellingham
- 3:50**     **Covenant Oil Field in the Central Utah Thrust Belt – What Has Been Learned in the 15 Years Since the Discovery:** T. C. Chidsey, D. A. Sprinkel, B. J. Kowallis, H. H. Doelling, G. Waanders
- 4:10**     **Exploration of the Carson, Bonniton, and Salar Basins – An Integrated Seep Hunting and Geochemical Sampling Approach Reduces Uncertainty and Increases Scientific Knowledge in Frontier Basins:** J. R. Grenader, J. J. Gharib, R. Wright
- 4:30**     **Integrating Remote Sensing and Field Data for Geothermal Energy Exploration in the Gulf of Suez, Egypt:** M. A. Noweir, A. S. Fahil, E. M. Ghoneim, A. A. Masoud



## Theme 8: The Digital Transformation in the Geosciences

Room 214 D

Co-Chairs: *L. E. Stright, J. Deck, and A. Hosford Scheirer*

- 1:15 **Introductory Remarks**
- 1:20 **An IIoT Platform for Agile Development and Deployment of Data-Driven Solutions in E&P:** T. Wen, X. Huang
- 1:40 **Challenges and Solution to AI Application in E&P Decision-Making:** S. Sun, J. Faroppa, S. Wu
- 2:00 **Efficient Access to Relevant Knowledge Extracted From Geoscience Literature Dedicated to Petroleum Basin Exploration by Using IBM Watson:** X. Guichet, N. Dubos-Sallée, M. Cacas-Stentz, D. Rahon, V. Martinez
- 2:20 **Next-Generation Interpretation Workflows:** S. Vallabhaneni, Y. Mao, A. Dev, S. Priyadarshy
- 2:40 **Automatic Interpretation in Structurally Complex Seismic Volumes:** A. Bugge, J. Lie, J. Faleide, L. Vynnytska, S. Clark
- 3:00 **Break**
- 3:10 **Automated Interpretation of Depositional Environments Using Measured Stratigraphic Sections and Machine-Learning Models:** Z. R. Jobe, A. Downard, T. P. Martin, R. Meyer
- 3:30 **Towards a Basin-Scale Lithofacies Model – An Integrated Machine Learning Approach Using Well Logs and Core for the Permian Basin:** D. Ooi, M. Ashby, C. Noll, L. Moraes, D. Hayes, I. Tobar
- 3:50 **Release the APE: A Novel Approach to Produce Estimated Well Logs on Horizontal Wells and Improve Multivariate Predictive Models:** P. Rutty, C. W. Grant
- 4:10 **Integrated Production and Subsurface Machine Learning Model for Predicting Hydrocarbon Recovery in the Bakken:** K. Sathaye, J. Ramey, J. Wan
- 4:30 **Application of Neural Networks and Machine Learning in Tiltmeter Analysis in Hydraulic Fracturing Diagnostics:** B. Bagherian

## Theme 1: Diagenesis and Rock Property Trends in Siliciclastics

Room 214 A

Co-Chairs: *I. Ball, J. S. Hearon, and E. Hernandez*

- 1:15 **Introductory Remarks**
- 1:20 **Assessing HPHT Sandstone Reservoir Quality: Identifying the Reality:** D. Charlaftis, S. J. Jones, P. Dyer, C. Greenwell, S. Acikalin, M. J. Osborne
- 1:40 **Integrating Basin and Reservoir Quality Modeling for Improved Prediction of Porosity and Permeability in the Deep-Water Wilcox Formation, Gulf of Mexico, USA:** J. Hearon, I. Ball, T. S. Szwarc

- 2:00 **How is Detrital Clay Content Distributed in Shallow-Deep Marine Settings? Detailed Insights From Two Highly Active Modern Analogs:** C. McGhee, S. Acikalin, R. Worden, J. Griffiths, L. Wooldridge, J. Utley, A. Hendry, M. Clare, G. Lintern, P. Talling
- 2:20 **The Distribution of Chlorite-Precursor Phases in Cores Through a Modern Tidal Bar: Towards Prediction of Chlorite in Reservoir Sandstones:** R. H. Worden, D. Muhammed, N. Simon, I. Verhagen, J. Griffiths, L. J. Wooldridge, J. E. Utley, C. McGhee, S. Acikali
- 2:40 **Distinct Petrographic Changes Across the Triassic-Jurassic Boundary in the Southwestern Barents Sea – Implications for Predicting Reservoir Quality:** L. Line, H. Hellevang, J. S. Jahren
- 3:00 **Break**
- 3:10 **Dolomite Cementation as Prime Control of Reservoir Quality in the Permian Rotliegend Sandstones, Offshore The Netherlands (Block K6) in Relation With Mudstone/Sandstone Ratio:** J. Girard, J. M. Miocic

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- 3:30 **Diagenesis of Sandstones Surrounding the Gypsum Valley Salt Diapir, Paradox Basin, Colorado: An Example From the Jurassic Fluvial Salt Wash Member of the Morrison Formation:** C. H. Bailey, R. Langford, K. A. Giles
- 3:50 **Quartz Cement in Mudrocks: Review of Occurrence and Habit in 18 Mudrock Units:** K. L. Milliken
- 4:10 **Compositional Variation in Modern Estuarine Sands: Predicting Major Controls on Sandstone Reservoir Quality:** R. H. Worden, J. Griffiths, L. J. Wooldridge, J. E. Utley, R. A. Duller
- 4:30 **Phyllosilicate Diagenesis in Mississippian Sandstones of the Michigan Basin:** B. J. Ares, M. A. Velbel

### Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures

Room 213 A/B

Chair: S. Chopra and G. Bozkurt

- 1:15 **Introductory Remarks**
- 1:20 **Estimation Model of Permeability for Tight Sandstone Based on NMR T2 Centralized Distribution Method:** C. Gang, F. Yiren, C. Gang
- 1:40 **A New Method for Determining Paleocurrent Direction Using Imaging Log:** P. Zhang, J. Sun
- 2:00 **Experimental Investigation on the Effect of Wettability on Rock-Electricity Response in Sandstone Reservoirs:** Y. Han, C. Zhou, C. Li
- 2:20 **Rock Physics Analysis and 3-D Seismic Interpretation: Examples From the Mannville Deep-Basin Alberta:** C. Coulombe
- 2:40 **Inference of Organic Carbon Content of Shale From Zoeppritz PP-AVO Inversion: Case Study of Avalon Shale, Delaware Basin:** U. Lim, N. Kabir, R. Gibson
- 3:00 **Break**
- 3:10 **A New Workflow to Upscale and Propagate Saturation-Dependent Petrophysical Properties From Wireline Logs to 3-D Geocellular Models:** A. A. Curtis, E. Eslinger, S. Nookala
- 3:30 **Study of the Sand Dunes in the Early Jurassic Nugget Formation in the Moxa Arch of Wyoming Using Seismic Attributes and Petrophysical Modeling:** D. Agrawal, S. Verma, S. Mallick
- 3:50 **Hydraulic Fracture Monitoring Using a Downhole Sliding Array: An Innovative Single-Well Solution:** J. Le Calvez, N. Fundytus, A. Martinez
- 4:10 **Mapping Rock-Property Changes and Fluid Migration During Hydraulic Fracturing Using FWI of Microseismic Data:** J. Behura
- 4:30 **Paleokarst Reservoir Seismic Facies Classification Using Frequency Spectral Decomposition, Machine Learning and Electrofacies Constrained Approach:** F. Tian, Q. Di, Z. Wang, S. Li, Y. Lv, X. Shan, C. Shen, B. Guan, X. Liu, X. Wang

\* Denotes presenter is other than first author

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# PRESENTER CROSS REFERENCE

A

Presenter	Day	am/pm	Time/Booth	Location	Session Title
Abegunrin, Ayobami	Mon.	pm	P90	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Aboaba, Olanrewaju	Mon.	am	10:50	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
Achang, Mercy	Tue.	am	P92	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Adeboye, Oyeleye	Wed.	am	10:30	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Agrawal, Dhruv	Wed.	pm	3:30	Room 213 A/B	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
Agrawal, Vikas	Tue.	pm	P86	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Akintomide, Akinbobola	Tue.	am	P50	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Al Ibrahim, Mustafa	Tue.	am	P100	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Al Najjar, Faisal	Tue.	am	P29	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Al-Atwah, Ibrahim	Tue.	am	P31	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Albader, Ahmad	Tue.	am	P5	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Albeshier, Ziyad	Tue.	am	10:30	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Alcalde, Rene	Tue.	am	11:30	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Aldrich, Jeff	Tue.	pm	1:20	Room 213 A/B	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
Aliyuda, Kachalla	Mon.	pm	P101	Exhibit Hall	Theme 1: Reservoir Quality and Rock Property Trends
Allevato, Andrew	Tue.	pm	P5	Exhibit Hall	Theme 7: Geophysics: Beyond Seismic Methods
Al-Madhachi, Layth	Mon.	pm	P89	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Alshammari, Bassam	Mon.	am	P13	Exhibit Hall	AAPG Student Research Poster Session I
Alzayer, Yaser	Wed.	am	10:50	Room 214 B/C	Theme 4: Modeling of Structural and Geomechanical Processes
Ambrose, William	Mon.	am	9:05	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
Amonpantang, Phinphorn	Tue.	pm	P52	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Amthor, Joachim	Tue.	pm	1:20	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
An, Xiaoxuan	Tue.	am	P88	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Anson Sanchez, Marta	Mon.	am	11:30	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
Apango, Fernando	Mon.	am	P7	Exhibit Hall	AAPG Student Research Poster Session I
Arasanipalai, Sriram	Tue.	am	11:10	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Arce Perez, Luis	Mon.	pm	P41	Exhibit Hall	Theme 1: Circum-Gulf of Mexico Clastic Systems
Arens, Shiva-Nandan	Tue.	pm	P91	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Ares, Brian	Wed.	pm	4:30	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Arora, Aman	Wed.	am	8:45	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Aubry, Marie-Pierre	Wed.	pm	1:20	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Austermann, Gregor	Tue.	pm	P99	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Avery, Aaron	Wed.	pm	4:30	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Avila, Jessica	Tue.	pm	P54	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Ayodele, Irewole	Wed.	am	P33	Exhibit Hall	Theme 1: New Advances in Mature Basins
Bagherian, Ben	Wed.	pm	4:30	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Bailey, Claire	Wed.	pm	3:30	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Bailey, Phillip	Wed.	am	P64	Exhibit Hall	AAPG Student Research Poster Session II
Baillie, Peter	Tue.	am	8:05	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Banerjee, Subho	Wed.	pm	2:20	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Bank, Gregory	Tue.	pm	P48	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Bann, Kerrie	Wed.	am	P49	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Barclay, Aislyn	Mon.	pm	P42	Exhibit Hall	Theme 1: Circum-Gulf of Mexico Clastic Systems

B



# PRESENTER CROSS REFERENCE

Bardol, Thomas	Mon.	pm	1:20	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Barnett, Andrew	Tue.	pm	P20	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Barnola, Anne-Sophie	Mon.	am	8:05	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
Barrett, Bonita	Mon.	am	P51	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
Barros, Pablo	Tue.	am	P40	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Bartnik, Samantha	Tue.	pm	P77	Exhibit Hall	Theme 1: Source to Sink II
Basani, Riccardo	Tue.	pm	P81	Exhibit Hall	Theme 1: Source to Sink II
Bashore, William	Wed.	pm	1:40	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
Bauer, Matthew	Tue.	am	P103	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Bauman, Peter	Tue.	am	11:10	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Beaubouef, Richard	Mon.	am	10:30	Room 217 A	Theme 1: Deep-water Systems Architecture: From Controls to Characterization
Beck, William	Tue.	am	P42	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Becker, Mauro	Mon.	am	P91	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Bedle, Heather	Tue.	am	P101	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Beelen, Daan	Tue.	am	P77	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits
Beelen, Daan	Wed.	am	P82	Exhibit Hall	SEPM Student Research Poster Session II
Beggs, John	Mon.	pm	P100	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Behura, Jyoti	Mon.	am	9:05	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
Behura, Jyoti	Wed.	pm	4:10	Room 213 A/B	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
Belcher, Keri	Tue.	pm	4:25	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
Bell, Daniel	Mon.	am	P9	Exhibit Hall	AAPG Student Research Poster Session I
Bentley, Samuel	Tue.	am	8:45	Hemisfair Ballroom I	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Berg, Sam	Mon.	pm	P34	Exhibit Hall	Theme 7: Integration of Geology and Geophysics
Bergmann, Kristin	Tue.	am	8:05	Hemisfair Ballroom I	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Bergmann, Kristin	Tue.	pm	3:25	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
Betzler, Christian	Tue.	am	11:30	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Bhatia, Mukul	Tue.	pm	2:00	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Bhatnagar, Paritosh	Tue.	pm	P2	Exhibit Hall	Theme 7: Geophysics: Beyond Seismic Methods
Bhattacharya, Janok	Mon.	am	10:30	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
Biddle, Sara	Mon.	am	P24	Exhibit Hall	SEPM Student Research Poster Session I
Bingham-Koslowski, Nikole	Mon.	pm	P25	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
Birchall, Thomas	Tue.	am	11:10	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Birdwell, Justin	Mon.	pm	P75	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Birdwell, Justin	Wed.	am	P93	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
Bjerstedt, Thomas	Tue.	pm	P70	Exhibit Hall	Theme 1: Source to Sink I
Blood, David	Mon.	pm	4:05	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Blood, David	Tue.	pm	P93	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Bloxson, Julie	Wed.	am	P94	Exhibit Hall	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Bo, Wang	Tue.	am	P87	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Bode-Omoleye, Ibukunoluwa	Wed.	am	10:10	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction

Bord, David	Wed.	am	P44	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Borges Gomes, Joao Paulo	Mon.	am	P39	Exhibit Hall	Theme 2: Carbonate Mixed Systems
Boyd, Ron	Tue.	pm	1:40	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
Brazell, Corey	Tue.	am	P22	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Breithaupt, Charles	Mon.	am	10:50	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
Brewer, Christopher	Tue.	pm	P63	Exhibit Hall	Theme 1: Source to Sink I
Brower, Spencer	Tue.	pm	P98	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Brown, Alton	Tue.	pm	P88	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Brown, Andrew	Mon.	am	P92	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Brown, Christopher	Mon.	pm	P18	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
Browning, David	Wed.	am	P91	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
Browning, Emily	Wed.	pm	2:00	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Brudzinski, Michael	Mon.	pm	2:20	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Bryers, Orrin	Mon.	pm	2:20	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Brzostowski, Matthew	Mon.	am	8:25	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
Bugge, Aina	Wed.	pm	2:40	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Bunge, Eric	Mon.	am	8:25	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
Buono, Antonio	Wed.	am	10:50	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Burberry, Caroline	Tue.	pm	P55	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Burdick, Donald	Wed.	pm	2:00	Hemisfair Ballroom I	Theme 10: Financing
Burgess, Peter	Tue.	am	8:45	Room 217 A	Theme 1: Source to Sink
Burnham, Alan	Sun.	pm	2:20	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Busch, James	Tue.	pm	P17	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Cai, Jun	Wed.	am	P69	Exhibit Hall	AAPG Student Research Poster Session II
Callahan, Owen	Mon.	pm	P102	Exhibit Hall	Theme 6: Carbon Storage
Cantine, Marjorie	Tue.	pm	3:45	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
Cardenas, Benjamin	Wed.	am	10:30	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Carlock, Erin	Tue.	am	P36	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Carlson, Douglas	Sun.	am	11:40	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Carlson, Douglas	Tue.	pm	4:00	Room 213 A/B	DEG Special Session: Environmental Impact and Sustainability
Cavallerano, Edward	Wed.	am	9:05	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Cebers-Korkmaz, Jennifer	Tue.	am	P48	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Chaderton, Nysha	Tue.	pm	1:20	Room 213 A/B	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
Chao, Jiun-Chi	Wed.	am	P26	Exhibit Hall	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Charlaftis, Dimitrios	Wed.	pm	1:20	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Chatellier, Jean-Yves	Tue.	am	P90	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Chatellier, Jean-Yves	Wed.	pm	2:00	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
Chauveau, Benoit	Tue.	pm	P82	Exhibit Hall	Theme 1: Source to Sink II
Chen, Guohui	Mon.	am	P48	Exhibit Hall	Theme 5: Evolution of the Organic and Inorganic Matrix
Chen, Hehe	Mon.	am	P76	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
Chen, Hehe	Tue.	pm	P69	Exhibit Hall	Theme 1: Source to Sink I
Chen, Si	Mon.	pm	P51	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture

# PRESENTER CROSS REFERENCE

Chidsey, Thomas	Wed.	pm	3:50	Room 217 A
Chima, Kelvin	Mon.	am	P60	Exhibit Hall
Chopra, Satinder	Mon.	pm	P31	Exhibit Hall
Chowdhury, Khaled	Wed.	am	P85	Exhibit Hall
Clark, Julian	Tue.	am	10:30	Room 217 A
Clark, Karl	Tue.	pm	P51	Exhibit Hall
Clark, Kendra	Wed.	am	P45	Exhibit Hall
Clift, Peter	Tue.	am	11:30	Room 217 A
Collier, Clark	Tue.	pm	P15	Exhibit Hall
Colombera, Luca	Mon.	am	P72	Exhibit Hall
Colombera, Luca	Mon.	pm	P50	Exhibit Hall
Conte, Roy	Wed.	am	11:30	Room 217 B/C
Cook, Douglas	Mon.	am	10:10	Room 214 A
Cooke, Andy	Mon.	am	P86	Exhibit Hall
Core, Elson	Tue.	pm	P23	Exhibit Hall
Cornick, Paul	Wed.	pm	2:40	Room 217 D
Cornu, Tristan	Tue.	pm	4:05	Room 214 D
Correa, Rodrigo	Tue.	am	P9	Exhibit Hall
Cosgrove, Grace	Mon.	pm	P57	Exhibit Hall
Cossey, Stephen	Tue.	am	P70	Exhibit Hall
Cossey, Stephen	Wed.	am	P34	Exhibit Hall
Coulombe, Craig	Wed.	pm	2:20	Room 213 A/B
Couples, Gary	Mon.	am	10:50	Room 217 B/C
Couples, Gary	Wed.	am	8:05	Room 214 B/C
Covault, Jacob	Mon.	am	8:45	Room 217 A
Covault, Jacob	Mon.	am	P66	Exhibit Hall
Cox, Denise	Tue.	pm	1:20	Room 213 A/B
Crisostomo Figueroa, A.	Mon.	am	P2	Exhibit Hall
Crombez, Vincent	Mon.	am	9:05	Room 214 D
Crombez, Vincent	Tue.	pm	P8	Exhibit Hall
Cronin, Bryan	Mon.	am	9:05	Room 217 A
Cui, Cecilia	Wed.	am	10:30	Hemisfair Ballroom I
Cumberpatch, Zoe	Mon.	am	P31	Exhibit Hall
Cumming, Lydia	Tue.	am	8:05	Room 213 A/B
Cumming, Lydia	Wed.	am	P1	Exhibit Hall
Cunningham, Celeste	Mon.	pm	P76	Exhibit Hall
Curkan, Jordan	Mon.	am	P12	Exhibit Hall
Curtis, A.	Wed.	pm	3:10	Room 213 A/B
Curtiss, David	Tue.	pm	1:20	Room 213 A/B
Curtis, John	Mon.	am	8:25	Room 214 D
Cutright, Bruce	Mon.	am	8:45	Room 214 A

Theme 9: New Global Exploration and Play Concepts  
Theme 1: Interaction Between Sedimentation and Tectonics II  
Theme 7: Integration of Geology and Geophysics  
SEPM Student Research Poster Session II  
Theme 1: Source to Sink  
Theme 4: Modeling of Structural and Geomechanical Processes  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 1: Source to Sink  
Theme 2: Carbonates: Permian Basin  
Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis  
Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture  
Theme 5: Eagle Ford and Austin Chalk Unconventional Plays  
Theme 9: Planetary Geology and Energy Frontiers  
Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
Theme 2: Carbonates: Depositional Models II  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 3: Integrated Workflows in Petroleum Systems Modeling  
Theme 2: Carbonates: Fractures and Karst  
Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture  
Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits  
Theme 1: New Advances in Mature Basins  
Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures  
Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks  
Theme 4: Modeling of Structural and Geomechanical Processes  
Theme 1: Deep-water Systems Architecture: From Controls to Characterization  
Theme 1: Interaction Between Sedimentation and Tectonics II  
The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists  
AAPG Student Research Poster Session I  
Theme 3: Geochemistry Applications in Petroleum Systems Characterization  
Theme 7: Geophysics: Beyond Seismic Methods  
Theme 1: Deep-water Systems Architecture: From Controls to Characterization  
Theme 10: Deals and Investment Decisions  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I  
Theme 6: Sustainability and Carbon  
Theme 6: Sustainability and Carbon  
Theme 3: Source Rock Depositional Environments  
AAPG Student Research Poster Session I  
Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures  
The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists  
Theme 3: Geochemistry Applications in Petroleum Systems Characterization  
Theme 9: Planetary Geology and Energy Frontiers



## D

Dada, Olamide	Tue.	am	10:50	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Dafoe, Lynn	Wed.	am	10:10	Room 217 A	Theme 1: Applied Ichology: In Honor of George Pemberton
Damico, James	Mon.	pm	P98	Exhibit Hall	Theme 6: Carbon Storage
Damuth, John	Tue.	am	P61	Exhibit Hall	Theme 1: Deep-water Sedimentology
Daniels, Benjamin	Tue.	am	P62	Exhibit Hall	Theme 1: Deep-water Sedimentology
Darrah, Thomas	Mon.	am	P88	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Darrah, Thomas	Mon.	pm	4:25	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Dashtgard, Shahin	Wed.	am	8:25	Room 217 A	Theme 1: Applied Ichology: In Honor of George Pemberton
Davies, Bryn	Tue.	am	10:50	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Davies, Russell	Mon.	am	P82	Exhibit Hall	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Del Moro, Yoryenys	Tue.	am	9:05	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Demchuk, Thomas	Tue.	am	9:05	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Deng, Hang	Tue.	am	P67	Exhibit Hall	Theme 1: Deep-water Sedimentology
Deng, Jack	Mon.	pm	P3	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Denison, Christopher	Tue.	pm	1:20	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
DeVito, Steve	Wed.	pm	3:10	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Díaz, Nakarí	Mon.	pm	P49	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Dickson, William	Mon.	pm	P65	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Dolan, Michael	Wed.	pm	4:10	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
Dommissse, Robin	Tue.	pm	P16	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Dong, Li	Tue.	pm	P1	Exhibit Hall	Theme 7: Geophysics: Beyond Seismic Methods
Dong, Rencheng	Wed.	am	10:10	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Donnelly, Sara	Tue.	am	P71	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits
Doolan, Colin	Mon.	pm	P77	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Dooley, Tim	Mon.	am	P28	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Dooley, Tim	Tue.	am	P35	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Dou, Luxing	Mon.	am	P77	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
Drake, Ronald	Wed.	am	P99	Exhibit Hall	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Draper, Cody	Tue.	pm	P12	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Draper, Hanah	Tue.	am	P38	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Droxler, Andre	Tue.	pm	4:25	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
Duarte, David	Tue.	pm	P37	Exhibit Hall	Theme 8: The Digital Transformation in the Geosciences
Duarte, David	Tue.	pm	P38	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Duarte, Edward	Wed.	am	P63	Exhibit Hall	AAPG Student Research Poster Session II
Duff, Patrick	Mon.	am	P8	Exhibit Hall	AAPG Student Research Poster Session I
Duffy, Oliver	Mon.	pm	1:20	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Dunham, John	Wed.	am	11:10	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Dunkel, Michael	Mon.	pm	4:45	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Dura, Tina	Tue.	am	10:10	Hemisfair Ballroom I	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Duran, Diana	Tue.	am	8:45	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data

# PRESENTER CROSS REFERENCE

E

Duran, Diana	Tue.	pm	1:20	Room 213 A/B
Durkin, Paul	Mon.	am	P78	Exhibit Hall
Duval, Bernard	Wed.	am	8:05	Hemisfair Ballroom I
Dvoretzky, Rachel	Mon.	am	P46	Exhibit Hall
Eberli, Gregor	Tue.	pm	4:45	Room 217 D
Eckert, Andreas	Tue.	am	P65	Exhibit Hall
Eckert, Andreas	Tue.	pm	P49	Exhibit Hall
Egorov, Vsevolod	Wed.	am	P53	Exhibit Hall
Eichelberger, Nathan	Mon.	am	9:05	Room 214 B/C
Eichhubl, Peter	Wed.	pm	1:20	Room 214 B/C
Elderbak, Khalifa	Wed.	am	P40	Exhibit Hall
Eliassen, Gauti Trygvason	Mon.	am	P5	Exhibit Hall
Eljalafi, Abdulah	Mon.	pm	3:45	Room 214 D
Engle, Mark	Tue.	am	P84	Exhibit Hall
Englert, Rebecca	Tue.	am	P56	Exhibit Hall
Englert, Rebecca	Wed.	pm	4:10	Room 217 D
Eslinger, Eric	Mon.	am	10:50	Room 217 D
Evans, James	Wed.	am	9:05	Room 214 B/C
Eymold, William	Mon.	am	8:25	Room 217 B/C
Fainstein, Roberto	Mon.	pm	P16	Exhibit Hall
Fairhurst, William	Mon.	pm	3:25	Hemisfair Ballroom I
Faleide, Thea Sveva	Mon.	am	P53	Exhibit Hall
Falivene, Oriol	Wed.	am	11:10	Room 217 D
Falzone, Christian	Tue.	pm	P4	Exhibit Hall
Fan, Caiwei	Wed.	am	P27	Exhibit Hall
Farhana Hasnan, Hasnor	Mon.	pm	P30	Exhibit Hall
Faroppa, James	Tue.	am	P107	Exhibit Hall
Favorito, Daniel	Wed.	am	8:25	Room 214 B/C
Fearn, Mary	Tue.	pm	P101	Exhibit Hall
Fender, Thomas	Tue.	pm	P41	Exhibit Hall
Ferguson, Ross	Mon.	pm	3:25	Room 217 A
Fernandez, Naiara	Tue.	am	P39	Exhibit Hall
Fernandez-Ibanez, Fermin	Mon.	am	10:10	Hemisfair Ballroom I
Ferreira, Rodrigo	Mon.	am	8:25	Room 217 D
Ferrill, David	Mon.	am	P80	Exhibit Hall
Ferron, Curtis	Mon.	am	P26	Exhibit Hall
Ferry, Nicholas	Mon.	am	P50	Exhibit Hall
Fiduk, Joseph	Mon.	pm	2:00	Room 214 B/C
Fielding, Laura	Tue.	pm	P75	Exhibit Hall
Filho, Osvaldo	Tue.	am	P47	Exhibit Hall
Filina, Irina	Mon.	am	10:10	Room 214 B/C
Fischer, Mark	Tue.	am	P37	Exhibit Hall

F

The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists  
 Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis  
 Theme 10: Deals and Investment Decisions  
 Theme 2: Carbonate Mixed Systems  
 Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits  
 Theme 1: Deep-water Sedimentology  
 Theme 4: Modeling of Structural and Geomechanical Processes  
 Theme 4: Global Perspectives on Compressional Deformation  
 Theme 4: Global Studies of Extensional and Passive Margins  
 Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
 Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
 AAPG Student Research Poster Session I  
 Theme 2: Linked Systems of the Cretaceous Gulf of Mexico  
 Theme 6: Induced Seismicity and Water Management  
 Theme 1: Deep-water Sedimentology  
 Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
 Theme 8: New Applications of Machine Learning to Subsurface Science  
 Theme 4: Modeling of Structural and Geomechanical Processes  
 Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks  
 Theme 9: New Global Exploration and Play Concepts  
 Discovery Thinking Forum – "Pioneering Discoveries Driving Prosperity"  
 Theme 1: Interaction Between Sedimentation and Tectonics I  
 Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?  
 Theme 7: Geophysics: Beyond Seismic Methods  
 Theme 3: Hydrocarbon Migration and Charge Risk Assessment  
 Theme 7: Integration of Geology and Geophysics  
 Theme 8: New Applications of Machine Learning to Subsurface Science  
 Theme 4: Modeling of Structural and Geomechanical Processes  
 Theme 5: Unconventional Reservoir Characterization II  
 Theme 4: Structure and Geomechanics of Unconventional Plays  
 Theme 1: Deep-water Process Stratigraphy  
 Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II  
 Theme 2: Characterizing Fracture and Karst Porosity and Permeability  
 Theme 8: New Applications of Machine Learning to Subsurface Science  
 Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
 SEPM Student Research Poster Session I  
 Theme 1: Interaction Between Sedimentation and Tectonics I  
 Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I  
 Theme 1: Source to Sink II  
 Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III  
 Theme 4: Global Studies of Extensional and Passive Margins  
 Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II

Flaig, Peter	Mon.	pm	P52	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Flinch, Joan	Tue.	pm	4:25	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Folaranmi, Ayobami	Wed.	am	P95	Exhibit Hall	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Foreman, Brady	Tue.	pm	1:45	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Forkner, Robert	Mon.	pm	1:20	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Fraino, Patricia	Wed.	am	P77	Exhibit Hall	SEPM Student Research Poster Session II
Freeman, Brett	Tue.	pm	4:45	Room 214 D	Theme 3: Integrated Workflows in Petroleum Systems Modeling
French, Katherine	Wed.	am	8:05	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Fritz, Richard	Wed.	pm	2:20	Hemisfair Ballroom I	Theme 10: Financing
Fu, Qilong	Tue.	am	P10	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Fuhrmann, Arne	Mon.	am	P15	Exhibit Hall	AAPG Student Research Poster Session I
Fuhrmann, Arne	Mon.	am	P16	Exhibit Hall	SEPM Student Research Poster Session I
Fullarton, Lisa	Wed.	pm	3:30	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Gai, Haifeng	Wed.	am	P25	Exhibit Hall	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Gaiani, Ilaria	Wed.	am	10:30	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Gale, Julia	Wed.	pm	1:40	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Galindo, Pedro	Wed.	am	P52	Exhibit Hall	Theme 4: Global Perspectives on Compressional Deformation
Gamberi, Fabiano	Tue.	pm	2:20	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
Gan, Yuqian	Tue.	pm	P65	Exhibit Hall	Theme 1: Source to Sink I
Gang, Chen	Wed.	pm	1:20	Room 213 A/B	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
Gannaway Dalton, C. Evelyn	Tue.	am	P51	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Gao, Bei	Mon.	pm	P94	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Garcia-Fresca, Beatriz	Wed.	am	8:25	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Gartrell, Anthony	Mon.	am	P58	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
Gartrell, Anthony	Mon.	am	P59	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Garza, Hector	Mon.	pm	P6	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Gaswirth, Stephanie	Tue.	am	11:30	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Ghani, Humaad	Tue.	am	11:10	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Gharib, Jamshid Jim	Mon.	pm	P21	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
Ghassal, Bandar	Mon.	pm	P72	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Giacomone, Gabriel	Wed.	am	P38	Exhibit Hall	Theme 1: New Advances in Mature Basins
Giddens, Emma	Tue.	am	P21	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Gilbert, J. C.	Mon.	am	P22	Exhibit Hall	SEPM Student Research Poster Session I
Giles, Katherine	Tue.	am	P54	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Giles, Katherine	Tue.	pm	1:20	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Gillen, Michael	Tue.	am	P94	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Gingras, Murray	Wed.	am	8:05	Room 217 A	Theme 1: Applied Ichology: In Honor of George Pemberton
Girard, Jean-Pierre	Wed.	pm	3:10	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Godet, Alexis	Wed.	am	8:05	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Goldfarb, Eric	Mon.	pm	4:05	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Gomes, Igor	Tue.	am	P2	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Gong, Chenglin	Tue.	pm	P74	Exhibit Hall	Theme 1: Source to Sink II
Gonzalez, Luis	Tue.	am	P12	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Gonzalez-Penagos, Felipe	Tue.	am	P27	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Gosses, Justin	Mon.	am	9:05	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science



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Goteti, Rajesh	Mon.	am	P37	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Goudge, Timothy	Tue.	pm	1:35	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Graham, Gavin	Tue.	am	P106	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Grant, James	Mon.	pm	P67	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Green, Hunter	Tue.	pm	P10	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Greene, James	Wed.	pm	4:30	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
Greenlee, Stephen M.	Mon.	pm	5:10	Hemisfair Ballroom I	Michel T. Halbouty Lecture
Gregersen, Laura	Wed.	pm	2:00	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Grenader, Jessica	Wed.	pm	4:10	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Griffith, Christine	Mon.	pm	4:45	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Griffith, Donald	Mon.	am	8:05	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science
Grigsby, Nate	Wed.	am	P31	Exhibit Hall	Theme 1: New Advances in Mature Basins
Gross, Evan	Mon.	am	P70	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
Gryger, Sean	Wed.	am	9:05	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Guedez, Maria	Mon.	pm	1:20	Hemisfair Ballroom I	Discovery Thinking Forum – "Pioneering Discoveries Driving Prosperity"
Guerra, Clairet	Tue.	am	10:50	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Guerra, Clairet	Wed.	am	P62	Exhibit Hall	AAPG Student Research Poster Session II
Guichet, Xavier	Wed.	pm	2:00	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Gulley, Jason	Mon.	am	10:30	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
Guo, Jingyi	Mon.	pm	P28	Exhibit Hall	Theme 7: Integration of Geology and Geophysics
Guo, Li	Tue.	pm	P19	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Gupta, Harshit	Tue.	pm	P32	Exhibit Hall	Theme 8: The Digital Transformation in the Geosciences
Guzman, Jose	Mon.	pm	P43	Exhibit Hall	Theme 1: Circum-Gulf of Mexico Clastic Systems
Haagsma, Autumn	Tue.	am	9:05	Room 213 A/B	Theme 6: Sustainability and Carbon
Hackley, Paul	Tue.	pm	1:20	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Hackley, Paul	Wed.	am	10:50	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Haddad, Mahdi	Mon.	pm	2:00	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Haile, Beyene	Tue.	pm	P76	Exhibit Hall	Theme 1: Source to Sink II
Hajek, Elizabeth	Tue.	pm	1:30	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Hall, Craig	Mon.	am	8:45	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
Hamilton, Jared	Tue.	pm	3:25	Room 217 A	Theme 10: Opportunity Valuation
Hamlyn, Rhys	Mon.	pm	P53	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Hammad, Nidaa	Mon.	pm	3:45	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Hampson, Gary	Mon.	pm	P44	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Han, Yuanjia	Mon.	pm	4:45	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Han, Yujiao	Wed.	pm	2:00	Room 213 A/B	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
Harazim, Dario	Mon.	am	P47	Exhibit Hall	Theme 5: Evolution of the Organic and Inorganic Matrix
Harazim, Dario	Mon.	pm	P46	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
Harrell, Ronald	Wed.	am	11:30	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Harrington, Jake	Tue.	am	10:10	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Harris, Ashley	Mon.	am	P56	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
Harris, Nicholas	Wed.	am	P87	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
Harris, Paul	Mon.	am	11:30	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability

Harris, Paul	Tue.	am	9:05	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Harris, Simon	Wed.	am	11:30	Room 214 B/C	Theme 4: Modeling of Structural and Geomechanical Processes
Harrison, Robert	Wed.	am	P20	Exhibit Hall	Theme 5: International Unconventional Plays
Hart, Nicole	Mon.	am	11:10	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
Hartz, David	Tue.	pm	2:20	Room 217 A	Theme 10: Opportunity Valuation
Hashim, Mohammed	Wed.	am	10:30	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Hassaan, Muhammad	Mon.	pm	P87	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Hathon, Eric	Wed.	am	8:25	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Hattori, Kelly	Mon.	pm	3:25	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Haughton, Peter	Mon.	pm	4:45	Room 217 A	Theme 1: Deep-water Process Stratigraphy
Hayes, Brad	Wed.	am	P17	Exhibit Hall	Theme 5: International Unconventional Plays
He, Zhiyong	Mon.	am	11:30	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
He, Zhiyong	Tue.	pm	3:45	Room 214 D	Theme 3: Integrated Workflows in Petroleum Systems Modeling
Healy, Rachel	Tue.	am	P59	Exhibit Hall	Theme 1: Deep-water Sedimentology
Hearon, Jane	Wed.	pm	1:40	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Heidari, Mahdi	Mon.	pm	P33	Exhibit Hall	Theme 7: Integration of Geology and Geophysics
Heijnen, Maarten	Mon.	pm	2:20	Room 217 A	Theme 1: Deep-water Process Stratigraphy
Hein, Frances	Sun.	pm	1:40	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Hemenway, Matthew	Tue.	pm	P14	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Hennings, Peter	Mon.	pm	1:20	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Hennings, Peter	Tue.	am	P82	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
Henriquel, Patrick	Tue.	am	P4	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Henry, Delano	Tue.	am	P96	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Henry, Lindsey	Mon.	am	8:25	Room 217 A	Theme 1: Deep-water Systems Architecture: From Controls to Characterization
Hentz, Tucker	Tue.	pm	P9	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Hermanrud, Christian	Tue.	pm	4:25	Room 214 D	Theme 3: Integrated Workflows in Petroleum Systems Modeling
Hern, Caroline	Wed.	am	8:25	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Hessler, Angela	Tue.	am	10:10	Room 217 A	Theme 1: Source to Sink
Hessler, Angela	Tue.	pm	1:25	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Heyn, Teunis	Tue.	pm	3:25	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Hiduke, Mark	Wed.	pm	2:40	Hemisfair Ballroom I	Theme 10: Financing
Hill, Donald	Mon.	am	10:30	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
Hodgson, David	Mon.	am	P61	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Hohman, John	Mon.	am	P62	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Holbrook, John	Mon.	pm	1:40	Room 214 A	Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
Holbrook, John	Tue.	pm	2:00	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Hollenbach, Andrew	Tue.	am	P3	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Horne, Elizabeth	Tue.	am	10:50	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Horne, Elizabeth	Tue.	am	P79	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
Horton, Brian	Tue.	pm	P72	Exhibit Hall	Theme 1: Source to Sink II
Hou, Maoguo	Tue.	am	P23	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Houseknecht, David	Wed.	pm	2:20	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Howell, Louis	Mon.	pm	P82	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Howlett, Danielle	Mon.	am	P1	Exhibit Hall	AAPG Student Research Poster Session I
Hu, Qinhong	Tue.	pm	2:20	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Hu, Qinhong	Wed.	am	11:30	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface

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	Huang, Xiaoxia	Mon.	am	P42	Exhibit Hall	Theme 2: Carbonate Mixed Systems
	Huang, YuLong	Wed.	am	P13	Exhibit Hall	Theme 5: International Unconventional Plays
	Hubbard, Stephen	Tue.	pm	1:55	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
	Hudec, Michael	Mon.	pm	3:25	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
	Hughes, Amanda	Wed.	am	8:45	Room 214 B/C	Theme 4: Modeling of Structural and Geomechanical Processes
	Husinec, Antun	Tue.	am	P11	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
I	Ika, Novianti	Tue.	pm	1:20	Room 213 A/B	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
	Ikeda, Ken	Wed.	am	P88	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
	Inam, Rai Hamood	Wed.	pm	4:10	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
	Iwuoha, Sochi	Mon.	am	10:10	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks
	Jacquemyn, Carl	Tue.	pm	2:20	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
	Jadoon, Ishtiaq	Wed.	am	P54	Exhibit Hall	Theme 4: Global Perspectives on Compressional Deformation
	Jagniecki, Elliot	Tue.	pm	4:05	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
	Janson, Xavier	Mon.	pm	4:45	Room 217 B/C	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
	Janson, Xavier	Tue.	am	8:25	Room 217 B/C	Theme 5: Permian Basin Unconventionals
	Jarvis, Ian	Wed.	pm	3:30	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
	Jensen, Gavin	Wed.	am	P9	Exhibit Hall	Theme 6: Sustainability and Carbon
	Jian, Ren	Tue.	pm	P59	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
	Jiang, Jiajun	Tue.	am	P104	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
	Jo, Honggeun	Mon.	am	10:30	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science
	Jobe, Zane	Wed.	pm	3:10	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
	John, Cedric	Mon.	am	10:10	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science
	Jolley, Chelsea	Tue.	pm	P18	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
	Jones, Adam	Mon.	am	P55	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
	Jones, Darren	Mon.	pm	P13	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
	Jones, Richard	Tue.	pm	P29	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
	Jones, Richard	Wed.	pm	3:50	Room 214 B/C	Theme 8: The Digital Transformation in the Geosciences
	Jubb, Aaron	Tue.	am	P30	Exhibit Hall	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
	Jung, Eunsil	Mon.	pm	P48	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
	Kaempfe, Sebastian	Mon.	am	P54	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
K	Kane, Ian	Mon.	am	P64	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
	Katz, Barry	Mon.	am	10:10	Room 214 D	Theme 1: Interaction Between Sedimentation and Tectonics II
	Keep, Myra	Mon.	am	8:05	Room 214 B/C	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
	Kenning, Jack	Mon.	am	P10	Exhibit Hall	Theme 4: Global Studies of Extensional and Passive Margins
	Kerans, Charles	Mon.	pm	1:40	Room 217 B/C	AAPG Student Research Poster Session I
	Kernen, Rachelle	Tue.	am	P53	Exhibit Hall	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
	Kernen, Rachelle	Tue.	pm	4:05	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
	Kertzhus, Vanessa	Tue.	pm	1:20	Room 213 A/B	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
	Keswani, Arjun	Wed.	am	10:50	Room 217 A	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
						Theme 1: Applied Ichnology: In Honor of George Pemberton



Khanna, Pankaj	Mon.	am	P44	Exhibit Hall
Khondakar, Lubna Yesmin	Mon.	pm	P102	Exhibit Hall
Kimiagar, Sean	Mon.	am	P95	Exhibit Hall
Kinsland, Gary	Mon.	am	8:05	Room 214 A
Kirkpatrick, R. James	Wed.	am	8:45	Room 214 D
Knapp, Levi	Mon.	pm	P10	Exhibit Hall
Ko, Lucy Tingwei	Mon.	pm	2:00	Room 217 D
Ko, Lucy Ting-Wei	Tue.	pm	4:05	Room 217 B/C
Koeshidayatullah, Ardiansyah	Tue.	am	P7	Exhibit Hall
Kohlruess, Dan	Tue.	am	P13	Exhibit Hall
Kolawole, Folarin	Wed.	am	P61	Exhibit Hall
Korman, Katrina	Wed.	am	P80	Exhibit Hall
Kornacki, Alan	Tue.	am	P28	Exhibit Hall
Kosanke, Tobi	Wed.	am	10:50	Room 217 B/C
Kosanke, Tobi	Wed.	am	P89	Exhibit Hall
Krzywiec, Piotr	Tue.	am	P49	Exhibit Hall
Kuila, Utpalendu	Wed.	am	P14	Exhibit Hall
Kukla, Peter	Tue.	pm	1:40	Room 214 B/C
Kumar, Anish	Mon.	pm	P36	Exhibit Hall
Kus, Kaci	Tue.	am	P73	Exhibit Hall
Kvale, Erik	Mon.	pm	4:05	Room 217 B/C
Kynaston, David	Mon.	pm	4:25	Room 214 A
LaGrange, Maya	Wed.	am	P84	Exhibit Hall
Lang, Simon	Mon.	pm	2:00	Room 214 A
Lankford-Bravo, David	Tue.	am	P45	Exhibit Hall
Larmier, Salomé	Wed.	am	P24	Exhibit Hall
Larson, Toti	Tue.	am	P91	Exhibit Hall
Lary, Brent	Mon.	am	8:05	Room 217 B/C
Lau, Kimberly	Tue.	am	8:25	Hemisfair Ballroom I
Laughrey, Christopher	Wed.	am	9:05	Room 214 D
Laugier, Fabien	Mon.	am	11:10	Room 217 A
Law, David	Tue.	am	8:25	Room 214 A
Lawson, Michael	Tue.	am	9:05	Room 214 D
Le Calvez, Joel	Wed.	pm	3:50	Room 213 A/B
Le Goff, Johan	Tue.	am	10:30	Room 217 D
Leary, Ryan	Tue.	pm	P13	Exhibit Hall
Lebit, Hermann	Mon.	pm	4:05	Room 214 B/C
Leckie, R. Mark	Wed.	pm	3:50	Room 217 D
Leetaru, Hannes	Tue.	am	10:50	Room 213 A/B
Legeay, Etienne	Mon.	am	P35	Exhibit Hall
Legeay, Etienne	Tue.	am	P55	Exhibit Hall

Theme 2: Carbonate Mixed Systems  
Theme 1: Reservoir Quality and Rock Property Trends  
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Theme 5: International Unconventional Plays  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II  
Theme 1: Circum-Gulf of Mexico Clastic Systems  
Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits  
Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy  
Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis  
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Theme 3: Hydrocarbon Migration and Charge Risk Assessment  
Theme 5: Unconventional Reservoir Technology  
Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks  
SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record  
Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface  
Theme 1: Deep-water Systems Architecture: From Controls to Characterization  
Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data  
Theme 3: Hydrocarbon Migration and Charge Risk Assessment  
Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures  
Theme 2: Depositional Models for Carbonate and Evaporite Systems  
Theme 2: Carbonates: Permian Basin  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 6: Sustainability and Carbon  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III

# PRESENTER CROSS REFERENCE

Lei, Cheng	Wed.	pm	4:30	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Lemons, Casee	Mon.	pm	4:25	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Leonard, Ray	Tue.	pm	4:40	Room 213 A/B	DEG Special Session: Environmental Impact and Sustainability
Lepore, Justin	Tue.	pm	4:25	Room 217 A	Theme 10: Opportunity Valuation
Lesko, Anna	Tue.	pm	2:05	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Lewis, Helen	Wed.	pm	3:10	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Lewis, Jack	Wed.	am	P3	Exhibit Hall	Theme 6: Sustainability and Carbon
Li, Haipeng	Tue.	pm	P79	Exhibit Hall	Theme 1: Source to Sink II
Li, Hui	Tue.	pm	P39	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Li, Jinbu	Wed.	am	P67	Exhibit Hall	AAPG Student Research Poster Session II
Li, Tingting	Mon.	pm	P73	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Li, Wei	Mon.	pm	P88	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Li, Yaohua	Tue.	pm	P58	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Li, Yaohua	Wed.	am	P23	Exhibit Hall	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Li, Zhaoqi	Wed.	am	P96	Exhibit Hall	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Li, Zhiyang	Mon.	am	P25	Exhibit Hall	SEPM Student Research Poster Session I
Li, Zhiyang	Mon.	pm	P55	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Liang, Han	Tue.	am	10:50	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Lim, Un Young	Mon.	am	10:30	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
Lim, Un Young	Wed.	pm	2:40	Room 213 A/B	Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
Limaye, Ajay	Tue.	pm	1:50	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Lin, Wen	Tue.	pm	2:00	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
Lin, Wen	Tue.	pm	P68	Exhibit Hall	Theme 1: Source to Sink I
Line, Lina Hedvig	Wed.	pm	2:40	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Lingrey, Steven	Mon.	am	P33	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Liu, Hangyu	Tue.	am	P6	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Liu, Jun	Wed.	am	P55	Exhibit Hall	Theme 4: Global Perspectives on Compressional Deformation
Liu, Kouqi	Tue.	pm	P95	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Liu, Li	Tue.	am	11:10	Room 217 B/C	Theme 5: Permian Basin Unconventionals
Liu, Rui	Tue.	pm	P46	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Liu, Rui	Wed.	am	P6	Exhibit Hall	Theme 6: Sustainability and Carbon
Liu, Wei	Mon.	pm	P71	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Liu, Wendi	Mon.	am	8:45	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science
Liu, Xinggang Christopher	Tue.	am	P41	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Liu, Xiuju	Tue.	am	P102	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Liu, Xiuju	Wed.	am	P86	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
Liu, Yubo	Tue.	am	9:05	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Lloyd, Christopher	Mon.	pm	P96	Exhibit Hall	Theme 6: Carbon Storage
Long, Jonathan	Mon.	am	P84	Exhibit Hall	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Lord, Elaine	Tue.	am	P19	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Loucks, Robert	Wed.	am	8:25	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Loucks, Robert	Wed.	am	8:45	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Lovecchio, Juan	Mon.	am	P38	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Lowell, James	Mon.	am	11:30	Room 217 D	Theme 8: New Applications of Machine Learning to Subsurface Science

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Lu, Le	Tue.	am	P25	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Lu, Yan	Tue.	am	P105	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Lu, Yiran	Wed.	am	P78	Exhibit Hall	SEPM Student Research Poster Session II
Luchtel Ferguson, Kristie	Wed.	pm	3:10	Hemisfair Ballroom I	Theme 10: Financing
Lueck, Lillian	Mon.	am	P32	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Luedmann, Thomas	Tue.	am	P14	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Lund Snee, Jens-Erik	Tue.	pm	P43	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Lyu, Fuliang	Tue.	am	P68	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits
Lyu, Wenya	Tue.	pm	P47	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Ma, Xingzhi	Mon.	pm	P98	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Ma, Xugang	Tue.	pm	P42	Exhibit Hall	Theme 7: Geophysics: Beyond Seismic Methods
MacEachern, James	Wed.	am	11:30	Room 217 A	Theme 1: Applied Ichnology: In Honor of George Pemberton
Macellari, Carlos	Mon.	pm	4:05	Hemisfair Ballroom I	Discovery Thinking Forum – "Pioneering Discoveries Driving Prosperity"
Mahoney, J. Brian	Mon.	am	P63	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Makeen Ahmed, Yousif	Mon.	pm	P74	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Malin, Peter	Mon.	pm	3:25	Room 213 A/B	Theme 6: Induced Seismicity and Water Management
Malloy, Thomas	Tue.	pm	1:40	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Manche, Cameron	Mon.	am	P18	Exhibit Hall	SEPM Student Research Poster Session I
Mann, Paul	Mon.	am	11:10	Room 214 B/C	Theme 4: Global Studies of Extensional and Passive Margins
Manueco, Humberto	Wed.	am	10:10	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Marcil, Jean-Sebastien	Sun.	pm	2:00	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Markert, Kaleb	Tue.	am	P16	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Markwick, Paul	Sun.	pm	12:40	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Markwick, Paul	Mon.	pm	P83	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Marshall, Patricio	Mon.	am	10:50	Room 214 B/C	Theme 4: Global Studies of Extensional and Passive Margins
Martin, Thomas	Tue.	pm	P34	Exhibit Hall	Theme 8: The Digital Transformation in the Geosciences
Martindale, Rowan	Tue.	pm	1:40	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Mastalerz, Maria	Tue.	pm	3:45	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Mathukutty, Shibu	Tue.	pm	4:05	Room 217 A	Theme 10: Opportunity Valuation
Matthew, Bode	Mon.	pm	P91	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Mattson, Adam	Tue.	am	P33	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
McAllen, Matthew	Mon.	am	P14	Exhibit Hall	AAPG Student Research Poster Session I
McArthur, Adam	Mon.	am	P57	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
McDermott, Kenneth	Mon.	am	11:30	Room 214 B/C	Theme 4: Global Studies of Extensional and Passive Margins
McDermott, Kenneth	Tue.	am	10:10	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
McDonough, Katie-Joe	Wed.	am	11:00	Room 213 A/B	Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico
McFarlin, Forrest	Mon.	am	P41	Exhibit Hall	Theme 2: Carbonate Mixed Systems
McGhee, Claire	Wed.	pm	2:00	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
McGlynn, Ian	Mon.	pm	P4	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
McNeill, Donald	Wed.	am	P21	Exhibit Hall	Theme 5: International Unconventional Plays
Meckel, T.	Tue.	am	8:25	Room 213 A/B	Theme 6: Sustainability and Carbon
Meddaugh, William	Tue.	pm	3:45	Room 217 A	Theme 10: Opportunity Valuation
Meddaugh, William	Tue.	pm	P25	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Medina, Elena	Mon.	pm	P93	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Melnyk, Scott	Wed.	am	8:45	Room 217 A	Theme 1: Applied Ichnology: In Honor of George Pemberton
Mendez Fermin, Dugmar	Mon.	am	P21	Exhibit Hall	SEPM Student Research Poster Session I
Meng, Jingyao	Mon.	pm	P99	Exhibit Hall	Theme 6: Carbon Storage



# PRESENTER CROSS REFERENCE

Mertesdorf, Melanie	Wed.	am	9:05	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Meyer, Melissa	Mon.	pm	P7	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Milkov, Alexei	Tue.	pm	2:00	Room 217 A	Theme 10: Opportunity Valuation
Milliken, Kitty	Wed.	pm	3:50	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
Miltenberger, Keely	Mon.	am	P19	Exhibit Hall	SEPM Student Research Poster Session I
Mio, Eduardo	Mon.	pm	P84	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Miraj, Muhammad	Tue.	am	8:45	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Miraj, Muhammed A. F.	Tue.	pm	P56	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Misch, David	Tue.	pm	3:25	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producidble Petroleum
Mitchell, William	Tue.	am	P57	Exhibit Hall	Theme 1: Deep-water Sedimentology
Mitten, Andrew	Mon.	pm	P54	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Mitten, Andrew	Wed.	am	P79	Exhibit Hall	SEPM Student Research Poster Session II
Moghadam, Al	Wed.	pm	3:30	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
Mohapatra, Gopal	Wed.	am	10:30	Room 213 A/B	Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico
Mohrig, David	Mon.	pm	4:05	Room 217 A	Theme 1: Deep-water Process Stratigraphy
Moldowan, John	Mon.	pm	P78	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Moore, Paul	Mon.	am	8:05	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
Morrell, Austin	Tue.	am	P95	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Morrice, Susan	Mon.	pm	2:00	Hemisfair Ballroom I	Discovery Thinking Forum – "Pioneering Discoveries Driving Prosperity"
Morris, Alan	Tue.	am	P80	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
Morris, Emma	Tue.	am	P72	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits
Morris, Paul	Mon.	am	10:10	Room 217 A	Theme 1: Deep-water Systems Architecture: From Controls to Characterization
Mosca, Fausto	Tue.	am	11:30	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Moslow, Thomas	Wed.	am	P18	Exhibit Hall	Theme 5: International Unconventional Plays
Mount, Van	Mon.	pm	3:45	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Mountney, Nigel	Wed.	am	8:05	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Mullen, Sheridan	Mon.	pm	P61	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Mullins, James	Mon.	pm	2:20	Room 214 A	Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
Murlidhar, Chandini	Wed.	pm	2:00	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Murray, Titus	Wed.	am	P29	Exhibit Hall	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Murray, Titus	Wed.	am	P30	Exhibit Hall	Theme 1: New Advances in Mature Basins
Nancy, Slatter	Tue.	pm	1:20	Room 213 A/B	The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists
Nash, Susan	Wed.	pm	4:10	Hemisfair Ballroom I	Theme 10: Financing
Navarro, Lilian	Tue.	am	P63	Exhibit Hall	Theme 1: Deep-water Sedimentology
Nazworth, Caroline	Mon.	pm	3:45	Room 214 A	Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
Neri, Philip	Tue.	am	8:05	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Nicot, Jean-Philippe	Tue.	am	P81	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
Nielsen, Eric	Wed.	pm	1:40	Hemisfair Ballroom I	Theme 10: Financing
Nieto, Michael	Mon.	am	P93	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Nikolinakou, Maria	Mon.	pm	2:20	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Ning, Fei	Mon.	pm	4:05	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Ningthoujam, Jagabir	Tue.	am	P75	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits

Nivlet, Philippe	Mon.	pm	P27	Exhibit Hall	Theme 7: Integration of Geology and Geophysics
Nnorom, Sebastian	Wed.	am	P71	Exhibit Hall	AAPG Student Research Poster Session II
Nolan, Seth	Wed.	am	P41	Exhibit Hall	Theme 1: New Advances in Mature Basins
Nolting, Andrea	Mon.	am	8:45	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
Nolting, Andrea	Tue.	am	P20	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Norris, David	Mon.	am	11:10	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Novak, Aleksandra	Wed.	am	P75	Exhibit Hall	AAPG Student Research Poster Session II
Noweir, Mohamed	Wed.	pm	4:30	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Noyahr, Christopher	Mon.	pm	P19	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
Nso, Peter	Mon.	am	P30	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Nuttall, Brandon	Wed.	am	P4	Exhibit Hall	Theme 6: Sustainability and Carbon
Nwoko, Jefferson	Mon.	am	P11	Exhibit Hall	AAPG Student Research Poster Session I
Obermaier, Michael	Tue.	am	10:10	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
O'Brien, Joshua	Tue.	pm	P92	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Okwara, Ikenna	Tue.	pm	P62	Exhibit Hall	Theme 1: Source to Sink I
Olariu, Cornel	Mon.	pm	P37	Exhibit Hall	Theme 1: Circum-Gulf of Mexico Clastic Systems
Olariu, Mariana	Mon.	pm	P59	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Onuba, Leonard	Wed.	am	8:45	Room 213 A/B	Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico
Onwumelu, Chioma	Mon.	pm	P12	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Ooi, Didi	Wed.	pm	3:30	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Oristaglio, Michael	Wed.	am	11:30	Room 213 A/B	Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico
Orso, Joseph	Tue.	pm	P84	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Osman, Ariana	Tue.	pm	P64	Exhibit Hall	Theme 1: Source to Sink I
Osman, Mutasim	Tue.	pm	P26	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Osman, Mutasim	Tue.	pm	P97	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Osmond, Johnathon	Mon.	am	P87	Exhibit Hall	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Ozotta, Ogochukwu	Tue.	pm	P60	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Paddock, David	Mon.	am	8:25	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
Palmowski, Daniel	Mon.	am	8:25	Room 214 B/C	Theme 4: Global Studies of Extensional and Passive Margins
Pascoe, Robert	Wed.	pm	1:20	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Pataki, Margaret	Mon.	pm	3:25	Room 214 A	Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
Paton, Douglas	Mon.	pm	P85	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
Patterson, Samantha	Wed.	am	10:10	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
Pattnaik, Chinmaya	Wed.	pm	2:40	Room 214 B/C	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Paull, Charles	Mon.	pm	1:20	Room 217 A	Theme 1: Deep-water Process Stratigraphy
Paumard, Victorien	Mon.	am	8:05	Room 217 A	Theme 1: Deep-water Systems Architecture: From Controls to Characterization
Paumard, Victorien	Tue.	am	8:25	Room 217 A	Theme 1: Source to Sink
Paumard, Victorien	Tue.	pm	P67	Exhibit Hall	Theme 1: Source to Sink I
Pearigen, Robert	Mon.	am	P36	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Pedersen, Esben	Mon.	pm	4:25	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Peel, Frank	Tue.	pm	4:45	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Pei, Yangwen	Tue.	pm	P53	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Pelayo Nava, Argenis	Mon.	pm	P26	Exhibit Hall	Theme 7: Integration of Geology and Geophysics
Peng, Junwen	Mon.	am	P90	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Peng, Sheng	Tue.	pm	4:25	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum
Peng, Sheng	Tue.	pm	P87	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I

# PRESENTER CROSS REFERENCE

Pepin, Karissa	Mon.	pm	1:40	Room 213 A/B
Pepper, Andrew	Tue.	pm	4:45	Room 217 B/C
Pepper, Andrew	Tue.	pm	1:20	Room 214 D
Peters, Kenneth	Sun.	pm	12:20	Room 217 D
Peters, Kenneth	Tue.	am	8:25	Room 214 D
Pettigrew, Ross	Wed.	am	10:10	Room 217 D
Pettinga, Luke	Tue.	am	P64	Exhibit Hall
Peyerl, Drielli	Sun.	pm	1:20	Room 217 D
Peyerl, Drielli	Mon.	pm	P97	Exhibit Hall
Peyerl, Drielli	Mon.	pm	P24	Exhibit Hall
Peyerl, Drielli	Wed.	am	P8	Exhibit Hall
Phillips, Joseph	Mon.	pm	P58	Exhibit Hall
Philp, Paul	Tue.	am	8:45	Room 214 D
Pichat, Alexandre	Tue.	am	P34	Exhibit Hall
Pigott, John	Tue.	am	10:10	Room 213 A/B
Pindell, James	Tue.	pm	2:20	Room 214 B/C
Pinta, Steven	Mon.	pm	1:40	Room 217 D
Platon, Emil	Wed.	am	P46	Exhibit Hall
Platon, Emil	Wed.	pm	2:20	Room 217 D
Pletka, Crystal	Wed.	am	P47	Exhibit Hall
Poirier, Simon	Wed.	am	P22	Exhibit Hall
Pontén, Anna	Mon.	am	10:50	Room 217 A
Popescu, Andrei	Tue.	am	10:30	Room 214 A
Popova, Olga	Mon.	am	P89	Exhibit Hall
Pranter, Matthew	Wed.	am	P90	Exhibit Hall
Prather, Tim	Tue.	pm	P100	Exhibit Hall
Price, Buddy	Mon.	pm	3:45	Room 217 B/C
Priddy, Charlotte	Wed.	am	11:30	Room 217 D
Prince, Kieron	Tue.	pm	P28	Exhibit Hall
Prokocki, Eric	Mon.	pm	3:45	Room 217 A
Purkis, Sam	Mon.	pm	1:40	Room 214 D
Purves, Steve	Mon.	am	11:10	Room 217 D
Pyrzcz, Michael	Tue.	pm	1:20	Room 213 A/B
Qiao, Zhanfeng	Tue.	am	P1	Exhibit Hall
Ramsay, Travis	Wed.	am	9:05	Room 213 A/B
Randles, Thomas	Mon.	am	P34	Exhibit Hall
Rao, Yong	Mon.	pm	P20	Exhibit Hall
Ravindranathan, Ramya	Mon.	pm	1:40	Room 217 A
Raychaudhuri, Indraneel	Wed.	am	10:30	Room 217 A
Re, Simone	Wed.	am	8:05	Room 213 A/B
Reat, Ellen	Mon.	pm	P47	Exhibit Hall

Theme 6: Induced Seismicity and Water Management  
Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producing Petroleum  
Theme 3: Integrated Workflows in Petroleum Systems Modeling  
Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs  
Theme 3: Hydrocarbon Migration and Charge Risk Assessment  
Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?  
Theme 1: Deep-water Sedimentology  
Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs  
Theme 6: Carbon Storage  
Theme 9: New Global Exploration and Play Concepts  
Theme 6: Sustainability and Carbon  
Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture  
Theme 3: Hydrocarbon Migration and Charge Risk Assessment  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II  
Theme 6: Sustainability and Carbon  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II  
Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 5: International Unconventional Plays  
Theme 1: Deep-water Systems Architecture: From Controls to Characterization  
Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data  
Theme 5: Permian Basin Unconventionals  
Theme 8: Application of Machine Learning to Imaging  
Theme 5: Unconventional Reservoir Characterization II  
Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy  
Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?  
Theme 2: Carbonates: Depositional Models II  
Theme 1: Deep-water Process Stratigraphy  
Theme 2: Linked Systems of the Cretaceous Gulf of Mexico  
Theme 8: New Applications of Machine Learning to Subsurface Science  
The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists  
Theme 2: Carbonates: Fractures and Karst  
Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico  
Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I  
Theme 9: New Global Exploration and Play Concepts  
Theme 1: Deep-water Process Stratigraphy  
Theme 1: Applied Ichology: In Honor of George Pemberton  
Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico  
Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture



Reat, Ellen	Tue.	pm	P66	Exhibit Hall	Theme 1: Source to Sink I
Reed, Robert	Mon.	am	P94	Exhibit Hall	Theme 5: Permian Basin Unconventionals
Reed, Robert	Mon.	pm	P5	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Reed, Robert	Tue.	pm	P90	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Rehill, Trent	Wed.	am	8:45	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Reijmer, John	Tue.	am	8:25	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Reistroffer, Maria	Tue.	pm	P11	Exhibit Hall	Theme 2: Carbonates: Permian Basin
Ren, Jian	Tue.	am	P44	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Renaud, Evan	Mon.	am	11:10	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
Rendall, Benjamin	Mon.	am	P40	Exhibit Hall	Theme 2: Carbonate Mixed Systems
Reuber, Kyle	Tue.	am	8:25	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
Riadini, Putri	Wed.	am	P60	Exhibit Hall	Theme 4: Global Perspectives on Compressional Deformation
Ricoy-Paramo, Valente	Wed.	am	10:50	Room 213 A/B	Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico
Rinderknecht, Chanse	Wed.	am	11:30	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Rine, James	Wed.	am	P10	Exhibit Hall	Theme 6: Sustainability and Carbon
Ritzer, Samantha	Mon.	pm	P9	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Rivers, John	Tue.	am	8:05	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Roberts, Daniel	Tue.	pm	3:45	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Roca, Eduard	Mon.	pm	1:40	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Rodriguez Blanco, Leticia	Wed.	am	P16	Exhibit Hall	Theme 5: International Unconventional Plays
Rodriguez, Clara	Tue.	pm	2:00	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Roende, Henrik	Mon.	am	11:30	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
Romans, Brian	Tue.	pm	1:20	Hemisfair Ballroom I	SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Rowan, Mark	Mon.	pm	4:45	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Rowe, Aryn	Mon.	pm	P11	Exhibit Hall	Theme 5: Analytical Techniques for Unconventional Reservoirs
Ruchiga, Taina	Tue.	pm	P3	Exhibit Hall	Theme 7: Geophysics: Beyond Seismic Methods
Ruckwied, Katrin	Wed.	am	P39	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Rueda Sanchez, Laura	Tue.	pm	P94	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Ruiz, Izaak	Wed.	am	P11	Exhibit Hall	Theme 6: Sustainability and Carbon
Ruppel, Stephen	Mon.	pm	1:20	Room 217 B/C	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
Rush, Jason	Mon.	pm	2:20	Room 217 B/C	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
Russo, Fabio	Wed.	am	P42	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Russo, Fabio	Wed.	am	P51	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Rutty, Patrick	Mon.	pm	P96	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Rutty, Patrick	Wed.	pm	3:50	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Ryan, Brooks	Wed.	am	8:05	Room 214 A	Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction
Sachsenhofer, Reinhard	Wed.	am	11:10	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Sahoo, Swapan	Mon.	am	8:45	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Salles Civitarese, Daniel	Tue.	am	P99	Exhibit Hall	Theme 8: New Applications of Machine Learning to Subsurface Science
Samis, Jack	Tue.	pm	P31	Exhibit Hall	Theme 8: The Digital Transformation in the Geosciences
Sanchez Mendoza, Juan	Tue.	pm	4:05	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture

# PRESENTER CROSS REFERENCE

Sanchez, Laura	Mon.	am	P83	Exhibit Hall	Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs
Sandu, Constantin	Tue.	am	8:05	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Santiago Torres, Alejandra	Tue.	pm	P21	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Santolaria, Pablo	Tue.	pm	P50	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Santra, Manasij	Mon.	pm	2:00	Room 217 A	Theme 1: Deep-water Process Stratigraphy
Sapiie, Benyamin	Mon.	am	P49	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
Sathaye, Kiran	Wed.	pm	4:10	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Savage, Melanie	Wed.	am	10:50	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Schoenborn, Greg	Mon.	pm	4:25	Room 214 B/C	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Schwangler, Martin	Wed.	am	P28	Exhibit Hall	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Scott, Derek	Tue.	am	P43	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
Senger, Kim	Sun.	pm	1:00	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs
Senger, Kim	Tue.	pm	P30	Exhibit Hall	Theme 8: The Digital Transformation in the Geosciences
Shahin, Yosef	Tue.	am	P17	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Shahzad, Khurram	Tue.	am	P15	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Sharma, Glenn	Tue.	am	8:05	Room 217 A	Theme 1: Source to Sink
Shaw, Daniel	Tue.	pm	P102	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Shelton, Jenna	Wed.	am	P2	Exhibit Hall	Theme 6: Sustainability and Carbon
Shimano, Yasushi	Mon.	pm	P60	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Shoup, Robert	Wed.	am	11:10	Hemisfair Ballroom I	Theme 10: Deals and Investment Decisions
Sihombing, Enry	Wed.	am	P35	Exhibit Hall	Theme 1: New Advances in Mature Basins
Simo, Toni	Tue.	pm	1:40	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
Singh, Pulkit	Tue.	am	P18	Exhibit Hall	Theme 2: Carbonates: Depositional Models I
Sitgreaves, Jeffrey	Mon.	pm	2:00	Room 214 D	Theme 2: Linked Systems of the Cretaceous Gulf of Mexico
Sitgreaves, Jeffrey	Tue.	pm	2:00	Room 217 D	Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits
Slack, Maria	Tue.	am	P26	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
Sleveland, Arve	Tue.	pm	3:45	Room 214 A	Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture
Slotnick, Benjamin	Wed.	am	8:25	Room 214 D	Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
Slotnick, Benjamin	Wed.	pm	3:10	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Smart, Kevin	Tue.	pm	P40	Exhibit Hall	Theme 4: Structure and Geomechanics of Unconventional Plays
Smith, Langhorne	Mon.	pm	3:45	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Smith, Langhorne	Tue.	pm	P85	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Smith, Sebastian	Wed.	am	P68	Exhibit Hall	AAPG Student Research Poster Session II
Smye, Katie	Mon.	am	11:30	Room 217 A	Theme 1: Deep-water Systems Architecture: From Controls to Characterization
Smye, Katie	Tue.	am	P83	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
Snedden, John	Mon.	am	P67	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Socorro, Jander	Wed.	am	P70	Exhibit Hall	AAPG Student Research Poster Session II
Soltero, Alondra	Tue.	am	P46	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Somerville, David	Mon.	am	P52	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics I
Song, Benbiao	Tue.	pm	P24	Exhibit Hall	Theme 2: Carbonates: Depositional Models II
Song, Licai	Wed.	am	P15	Exhibit Hall	Theme 5: International Unconventional Plays
Sonnenberg, Stephen	Tue.	am	P93	Exhibit Hall	Theme 5: Unconventional Reservoir Technology
Sonnenberg, Stephen	Tue.	pm	P96	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization II
Sorenson, Raymond	Sun.	pm	12:00	Room 217 D	Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs

Soto, Juan	Mon.	am	P29	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I
Soutter, Euan	Wed.	am	P66	Exhibit Hall	AAPG Student Research Poster Session II
Speed, Cole	Mon.	am	P73	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
Steeves, Blake	Mon.	pm	P68	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Stein, Holly	Mon.	pm	P80	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Stewart, Iain	Tue.	pm	3:30	Room 213 A/B	DEG Special Session: Environmental Impact and Sustainability
Stewart, Simon	Tue.	pm	P57	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Stieffel, Rodney	Wed.	am	P50	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
Stine, Jonathan	Tue.	am	P52	Exhibit Hall	Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III
Stockli, Daniel	Mon.	pm	4:25	Room 217 B/C	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
Stodden, Lexie	Wed.	am	P76	Exhibit Hall	AAPG Student Research Poster Session II
Stoneburner, Dick	Wed.	pm	1:20	Hemisfair Ballroom I	Theme 10: Financing
Su, Kai	Tue.	pm	P61	Exhibit Hall	Theme 4: Modeling of Structural and Geomechanical Processes
Su, Yang	Mon.	pm	P69	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Summons, Roger	Mon.	am	10:30	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Sun, Shaoqing	Wed.	pm	1:40	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
Sun, Xun	Mon.	am	8:05	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Sun, Zhongheng	Wed.	am	P37	Exhibit Hall	Theme 1: New Advances in Mature Basins
Sun, Zhongqiang	Mon.	pm	P62	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture
Swanson, Travis	Wed.	am	10:50	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Swarbrick, Richard	Tue.	am	10:10	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Sweet, Michael	Tue.	am	10:50	Room 217 A	Theme 1: Source to Sink
Sylta, Oyvind	Tue.	am	10:30	Room 214 D	Theme 3: Hydrocarbon Migration and Charge Risk Assessment
Sylvester, Paul	Wed.	pm	2:40	Room 217 A	Theme 9: New Global Exploration and Play Concepts
Sylvester, Zoltan	Tue.	am	8:00	Hemisfair Ballroom I	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Szymanski, Eugene	Tue.	am	10:10	Room 214 A	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
Tamborello, Brittney	Tue.	pm	1:40	Room 214 D	Theme 3: Integrated Workflows in Petroleum Systems Modeling
Tang, David	Wed.	am	P92	Exhibit Hall	Theme 8: Application of Machine Learning to Imaging
Tang, Xuan	Tue.	pm	P89	Exhibit Hall	Theme 5: Unconventional Reservoir Characterization I
Tatum, Dominic	Wed.	am	8:45	Room 217 D	Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?
Taylor, Ross	Mon.	pm	2:20	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
Tedesco, Steven	Wed.	pm	3:50	Hemisfair Ballroom I	Theme 10: Financing
Tek, Daniel	Mon.	am	P17	Exhibit Hall	SEPM Student Research Poster Session I
Tenaglia, Max	Wed.	am	P12	Exhibit Hall	Theme 5: International Unconventional Plays
Teoh, Chia Pei	Tue.	am	P8	Exhibit Hall	Theme 2: Carbonates: Fractures and Karst
Thebault, Alcide	Tue.	pm	P80	Exhibit Hall	Theme 1: Source to Sink II
Thomas, Garen	Mon.	am	11:30	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
Thompson, Ian	Tue.	am	8:45	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
Thompson-Butler, William	Mon.	am	10:50	Room 214 D	Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Thurmond, John	Tue.	am	10:30	Hemisfair Ballroom I	SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
Tian, Derui	Mon.	pm	P79	Exhibit Hall	Theme 3: Source Rock Depositional Environments
Tian, Derui	Tue.	am	P32	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis



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Tian, Fei	Mon.	am	8:45	Room 213 A/B
Tian, Fei	Mon.	pm	P99	Exhibit Hall
Tian, Fei	Wed.	pm	4:30	Room 213 A/B
Tillmans, Fabian	Mon.	am	P3	Exhibit Hall
Tilton, Jeff	Tue.	am	P60	Exhibit Hall
Timmer, Eric	Wed.	am	11:10	Room 217 A
Torelli, Martina	Mon.	pm	P81	Exhibit Hall
Torres Parada, Emilio	Wed.	pm	2:20	Room 217 B/C
Torres, Ricardo	Mon.	pm	P39	Exhibit Hall
Treviño, April	Mon.	pm	4:05	Room 214 A
Tsutsui, Kosuke	Wed.	pm	3:30	Room 214 B/C
Ul Haq, Ehsan	Tue.	am	P66	Exhibit Hall
Unger, Mike	Tue.	pm	P6	Exhibit Hall
Uzio, Jordy	Mon.	pm	P2	Exhibit Hall
Vaisblat, Noga	Wed.	pm	3:10	Room 217 B/C
Vakarelov, Boyan	Mon.	am	P74	Exhibit Hall
Vakarelov, Boyan	Tue.	pm	3:25	Room 214 A
Vallabhaneni, Sridharan	Wed.	pm	2:20	Room 214 D
van der Kolk, Dolores	Mon.	pm	P66	Exhibit Hall
Van Der Loop, Mary	Tue.	am	8:45	Room 217 B/C
van Yperen, Anna	Mon.	am	P20	Exhibit Hall
Vardy, Carlos	Wed.	pm	2:40	Room 217 B/C
Vaughan, Alan	Wed.	am	10:10	Room 214 B/C
Velko, Garrett	Wed.	am	P97	Exhibit Hall
Venieri, Marco	Tue.	am	P97	Exhibit Hall
Vicens, Guillem	Tue.	pm	P27	Exhibit Hall
Vital Brazil, Emilio	Tue.	am	P98	Exhibit Hall
Wahbi, Abdullah	Tue.	pm	P73	Exhibit Hall
Waid, Christopher	Tue.	am	8:45	Room 213 A/B
Walker, Christopher	Tue.	am	11:30	Room 213 A/B
Walker, Wylie	Mon.	am	P43	Exhibit Hall
Walters, Miranda	Wed.	am	P43	Exhibit Hall
Walters, Miranda	Wed.	am	P98	Exhibit Hall
Wang, Feiyu	Mon.	pm	P64	Exhibit Hall
Wang, Guangzeng	Wed.	am	P56	Exhibit Hall
Wang, Heng	Tue.	am	11:10	Room 213 A/B
Wang, Heng	Wed.	am	P5	Exhibit Hall
Wang, Hongqiu	Mon.	am	11:10	Room 213 A/B
Wang, Jun	Mon.	pm	P14	Exhibit Hall
Wang, Qiqi	Mon.	am	P85	Exhibit Hall
Wang, Weifang	Wed.	am	P74	Exhibit Hall
Wang, Ya	Tue.	pm	P35	Exhibit Hall
Wang, Zhao	Mon.	am	P81	Exhibit Hall
Wang, Zhuobo	Tue.	pm	P7	Exhibit Hall
Wavrek, David	Mon.	pm	P8	Exhibit Hall

Theme 7: Integration of Geology and Geophysics  
Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data  
Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures  
AAPG Student Research Poster Session I  
Theme 1: Deep-water Sedimentology  
Theme 1: Applied Ichnology: In Honor of George Pemberton  
Theme 3: Source Rock Depositional Environments  
Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies  
Theme 1: Circum-Gulf of Mexico Clastic Systems  
Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis  
Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
Theme 1: Deep-water Sedimentology  
Theme 7: Geophysics: Beyond Seismic Methods  
Theme 5: Analytical Techniques for Unconventional Reservoirs  
Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies  
Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis  
Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture  
Theme 8: The Digital Transformation in the Geosciences  
Theme 3: Source Rock Depositional Environments  
Theme 5: Permian Basin Unconventionals  
SEPM Student Research Poster Session I  
Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies  
Theme 4: Modeling of Structural and Geomechanical Processes  
Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent  
Theme 5: Unconventional Reservoir Technology  
Theme 2: Carbonates: Depositional Models II  
Theme 8: New Applications of Machine Learning to Subsurface Science  
Theme 1: Source to Sink II  
Theme 6: Sustainability and Carbon  
Theme 6: Sustainability and Carbon  
Theme 2: Carbonate Mixed Systems  
Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times  
Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent  
Theme 3: Source Rock Depositional Environments  
Theme 4: Global Perspectives on Compressional Deformation  
Theme 6: Sustainability and Carbon  
Theme 6: Sustainability and Carbon  
Theme 7: Integration of Geology and Geophysics  
Theme 9: New Global Exploration and Play Concepts  
Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
AAPG Student Research Poster Session II  
Theme 8: The Digital Transformation in the Geosciences  
Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs  
Theme 7: Geophysics: Beyond Seismic Methods  
Theme 5: Analytical Techniques for Unconventional Reservoirs

	Webb, Nathan	Wed.	am	P32	Exhibit Hall	Theme 1: New Advances in Mature Basins
	Weber, Ryan	Mon.	pm	P97	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
	Wei, Siyuan	Mon.	am	P65	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
	Wei, Yang	Mon.	pm	P23	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
	Wei, Zhoutuo	Mon.	am	10:10	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
	Wen, Tailai	Wed.	pm	1:20	Room 214 D	Theme 8: The Digital Transformation in the Geosciences
	Wensong, Huang	Mon.	pm	P95	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
	West, Logan	Wed.	am	P83	Exhibit Hall	SEPM Student Research Poster Session II
	Wethington, Conn	Tue.	am	10:30	Room 213 A/B	Theme 6: Sustainability and Carbon
	Whidden, Katherine	Mon.	pm	P15	Exhibit Hall	Theme 9: New Global Exploration and Play Concepts
	Whittaker, Fiona	Mon.	am	9:05	Hemisfair Ballroom I	Theme 2: Characterizing Fracture and Karst Porosity and Permeability
	Whittaker, Richard	Mon.	am	10:30	Room 214 B/C	Theme 4: Global Studies of Extensional and Passive Margins
	Whittaker, Richard	Mon.	pm	P86	Exhibit Hall	Theme 4: Global Perspectives on Extensional Deformation
	Whittaker, Stefanie	Wed.	am	11:10	Room 217 B/C	Theme 5: Eagle Ford and Austin Chalk Unconventional Plays
	Wilkins, Scott	Tue.	am	11:30	Room 214 B/C	Theme 4: Compressional Environments: Trap to Basin
	Wilbern, Arienne	Wed.	pm	3:30	Hemisfair Ballroom I	Theme 10: Financing
	Willette, Donna	Tue.	am	P24	Exhibit Hall	Theme 3: Biomarker Applications in Petroleum Systems Analysis
	Williams, Ryan	Mon.	am	9:05	Room 213 A/B	Theme 7: Integration of Geology and Geophysics
	Williams-Stroud, Sherilyn	Wed.	am	10:30	Room 214 B/C	Theme 4: Modeling of Structural and Geomechanical Processes
	Willis, Brian	Mon.	pm	P45	Exhibit Hall	Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture
	Wilson, Edith	Mon.	am	10:50	Room 214 A	Theme 9: Planetary Geology and Energy Frontiers
	Wilson, Julie	Tue.	pm	1:40	Room 217 A	Theme 10: Opportunity Valuation
	Wilson, Ryan	Mon.	pm	2:00	Room 217 B/C	Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy
	Wilson, Ryan	Mon.	pm	3:25	Room 217 D	Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent
	Winsten, Miriam	Tue.	pm	4:20	Room 213 A/B	DEG Special Session: Environmental Impact and Sustainability
	Winter, Rene	Mon.	pm	P40	Exhibit Hall	Theme 1: Circum-Gulf of Mexico Clastic Systems
	Wolanski, Krzysztof	Wed.	am	P36	Exhibit Hall	Theme 1: New Advances in Mature Basins
	Wood, Lesli	Tue.	am	11:10	Room 217 A	Theme 1: Source to Sink
	Worden, Richard	Wed.	pm	2:20	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
	Worden, Richard	Wed.	pm	4:10	Room 214 A	Theme 1: Diagenesis and Rock Property Trends in Siliciclastics
	Worms, Swiad	Mon.	am	P71	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis
	Wren, William	Tue.	am	P86	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
	Wright, Shawn	Wed.	pm	3:50	Room 217 B/C	Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies
	Wright, Victor	Tue.	am	10:50	Room 217 D	Theme 2: Depositional Models for Carbonate and Evaporite Systems
	Wroblewski, Anton	Wed.	am	P48	Exhibit Hall	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
	Wu, Tengfei	Mon.	am	P27	Exhibit Hall	SEPM Student Research Poster Session I
	Wust, Raphael	Tue.	pm	2:20	Room 214 D	Theme 3: Integrated Workflows in Petroleum Systems Modeling
X	Xiao, Yuchen	Tue.	am	P78	Exhibit Hall	Theme 6: Induced Seismicity and Water Management
	Xu, Shaochuan	Wed.	am	11:10	Room 214 B/C	Theme 4: Modeling of Structural and Geomechanical Processes
	Xu, Wei	Wed.	pm	1:40	Room 217 D	Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times
	Xu, Weixin	Mon.	pm	P92	Exhibit Hall	Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
	Xu, Xiaoyong	Tue.	am	P76	Exhibit Hall	Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits
	Yan, Na	Mon.	am	P68	Exhibit Hall	Theme 1: Interaction Between Sedimentation and Tectonics II
Y	Yan, Na	Mon.	am	P69	Exhibit Hall	Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis

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Z

Yang, Rui	Wed.	am	P19	Exhibit Hall
Yawar, Zalmai	Mon.	pm	4:25	Room 217 A
Yee, Denise	Mon.	pm	P22	Exhibit Hall
Yin, Shiyao	Mon.	pm	P104	Exhibit Hall
Yuan, Qingwang	Tue.	pm	3:25	Room 214 D
Yurchenko, Inessa	Tue.	pm	2:00	Room 214 D
Zahm, Christopher	Mon.	am	11:10	Hemisfair Ballroom I
Zahm, Christopher	Mon.	pm	3:25	Room 217 B/C
Zalan, Pedro	Wed.	pm	1:40	Room 217 A
Zanella, Alain	Tue.	pm	P45	Exhibit Hall
Zang, Yanbin	Tue.	am	P85	Exhibit Hall
Zarra, Larry	Mon.	pm	P35	Exhibit Hall
Zeng, Zhiwei	Tue.	pm	P71	Exhibit Hall
Zhai, Rui	Mon.	am	P45	Exhibit Hall
Zhang, Hualing	Wed.	am	P65	Exhibit Hall
Zhang, Jing	Mon.	pm	P32	Exhibit Hall
Zhang, Jing	Tue.	pm	P44	Exhibit Hall
Zhang, Jinyu	Mon.	pm	1:20	Room 214 A
Zhang, Jinyu	Mon.	pm	P38	Exhibit Hall
Zhang, Jinyu	Mon.	pm	P63	Exhibit Hall

Theme 5: International Unconventional Plays  
 Theme 1: Deep-water Process Stratigraphy  
 Theme 9: New Global Exploration and Play Concepts  
 Theme 1: Reservoir Quality and Rock Property Trends  
 Theme 3: Integrated Workflows in Petroleum Systems Modeling  
 Theme 3: Integrated Workflows in Petroleum Systems Modeling  
 Theme 2: Characterizing Fracture and Karst Porosity and Permeability  
 Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy  
 Theme 9: New Global Exploration and Play Concepts  
 Theme 4: Structure and Geomechanics of Unconventional Plays  
 Theme 6: Induced Seismicity and Water Management  
 Theme 1: Circum-Gulf of Mexico Clastic Systems  
 Theme 1: Source to Sink I  
 Theme 2: Carbonate Mixed Systems  
 AAPG Student Research Poster Session II  
 Theme 7: Integration of Geology and Geophysics  
 Theme 4: Structure and Geomechanics of Unconventional Plays  
 Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis  
 Theme 1: Circum-Gulf of Mexico Clastic Systems  
 Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture

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Zhang, Jinyu	Tue.	am	9:05	Room 217 A
Zhang, Jinyu	Tue.	pm	P78	Exhibit Hall
Zhang, Li	Mon.	pm	P103	Exhibit Hall
Zhang, Li	Tue.	pm	P22	Exhibit Hall
Zhang, Pengyun	Wed.	pm	1:40	Room 213 A/B
Zhang, Pengzhi	Mon.	pm	P29	Exhibit Hall
Zhang, Qiang	Wed.	am	P58	Exhibit Hall
Zhang, Tongwei	Tue.	am	10:30	Room 217 B/C
Zhang, Xiaoqing	Wed.	am	P57	Exhibit Hall
Zhang, YuanZe	Mon.	am	8:45	Room 214 B/C
Zhang, Yuying	Tue.	pm	P83	Exhibit Hall
Zhang, Zhijie	Tue.	am	P74	Exhibit Hall
Zhang, Zhiyao	Mon.	am	P4	Exhibit Hall
Zhao, Kai	Mon.	am	P6	Exhibit Hall
Zhao, Rui	Tue.	pm	4:45	Room 214 A
Zheng, Charlie Y. C.	Mon.	am	P23	Exhibit Hall
Zheng, Xiaoli	Wed.	am	P59	Exhibit Hall
Zhong, Zhi	Mon.	pm	P100	Exhibit Hall
Zhong, Zhi	Mon.	pm	P101	Exhibit Hall
Zhong, Zhi	Tue.	pm	P33	Exhibit Hall
Zhong, Zhi	Wed.	am	P7	Exhibit Hall
Zhou, Chuanmin	Tue.	am	P69	Exhibit Hall
Zhou, Haolin	Tue.	am	P89	Exhibit Hall
Zinecker, Marcus	Wed.	am	P73	Exhibit Hall
Zoback, Mark	Wed.	pm	1:20	Room 217 B/C
Zonneveld, John-Paul	Wed.	am	9:05	Room 217 A
Zweidler, Daniel	Tue.	pm	1:20	Room 217 A

Theme 1: Source to Sink  
Theme 1: Source to Sink II  
Theme 1: Reservoir Quality and Rock Property Trends  
Theme 2: Carbonates: Depositional Models II  
Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures  
Theme 7: Integration of Geology and Geophysics  
Theme 4: Global Perspectives on Compressional Deformation  
Theme 5: Permian Basin Unconventionals  
Theme 4: Global Perspectives on Compressional Deformation  
Theme 4: Global Studies of Extensional and Passive Margins  
Theme 1: Source to Sink II  
Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits  
AAPG Student Research Poster Session I  
AAPG Student Research Poster Session I  
Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture  
SEPM Student Research Poster Session I  
Theme 4: Global Perspectives on Compressional Deformation  
Theme 6: Carbon Storage  
Theme 6: Carbon Storage  
Theme 8: The Digital Transformation in the Geosciences  
Theme 6: Sustainability and Carbon  
Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits  
Theme 5: Unconventional Reservoir Technology  
AAPG Student Research Poster Session II  
Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies  
Theme 1: Applied Ichnology: In Honor of George Pemberton  
Theme 10: Opportunity Valuation



SAVE THE DATE

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# *Room Assignments and Floor Plans*

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Room Assignments

Committee Business Meetings

Convention Center Floor Plans

Grand Hyatt San Antonio Floor Plan





# ROOM ASSIGNMENTS

*All events will be held at the Henry B. Gonzalez Convention Center unless otherwise noted.*

AAPG Center	Exhibit Hall 3/4A, Booth 1629
AAPG Information	Registration Area, Main Lobby
AAPG Volunteer Check-In	Room 212
AAPG/SEPM Student Reception	Grand Hyatt San Antonio, Lone Star Ballroom D/E/F
All-Alumni Reception	Grand Hyatt San Antonio, Lone Star Ballroom A
All-Convention Luncheon	Hemisfair Ballroom 2/3
Business Center	Near Main Lobby Entrance
Career Center	Room 006 A
DEG/EMD Luncheon	Room 006 B/C/D
DPA Luncheon	Room 006 B/C/D
End-of-Day Receptions	Exhibit Hall 3/4A
Exhibition	Exhibit Hall 3/4A
Exhibitor Sales Office and Rebooking Lounge	Exhibit Hall 3/4A
Guest Hospitality Suite	Grand Hyatt San Antonio, Bowie B
Wi-Fi Hot Spot	Exhibit Hall 3/4A, Booth 1319
Icebreaker Reception	Exhibit Hall 3/4A
Imperial Barrel Award (IBA) Ceremony	Hemisfair Ballroom 2/3
Imperial Barrel Award (IBA) Competition	Room 213
International Pavilion	Exhibit Hall 3/4A
Judges Room	Room 212
Luggage Check	Main Lobby
Medical Services / First Aid	Behind Escalators in Exhibit Hall 3
Mother's Room	Near Park View Registration
Opening Session and Awards Ceremony	Hemisfair Ballroom 2/3
Oral Sessions	Hemisfair Ballroom 1, Rooms 213, 214 A, 214 B/C, 214 D, 217 A, 217 B/C, 217 D
Media Lounge/Center	Exhibit Hall 3/4A, Booth 1219
Poster Sessions	Exhibit Hall 3/4A
Refreshment Breaks	Exhibit Hall 3/4A
Registration	Main Lobby
SEPM Business Meeting/Luncheon	Room 007 A/B/C
SEPM President's Reception and Awards Ceremony	Marriott Riverwalk, Alamo Ballroom Salons D/E/F
SEPM Research Groups Marriott	Riverwalk various rooms
Speaker Service Center	Room 212
Student Career Seminar	Grand Hyatt San Antonio, Lone Star Ballroom B
Student and Faculty Lounge	Exhibit Hall 3/4A, Booth 1449
Young Professionals Meet & Greet	Tower View Registration





# COMMITTEE BUSINESS MEETINGS

AAPG – Meetings will be held on the second level of the Grand Hyatt San Antonio unless otherwise noted.			
Committee	Day	Time	Room
<b>Friday</b>			
AAPG Executive Committee	Friday	12:00 pm–5:00 pm	San Jacinto
<b>Saturday</b>			
AAPG Executive Committee	Saturday	8:00 am–12:00 pm	San Jacinto
DPA Council and Executive Committee	Saturday	8:00 am–12:00 pm	Lone Star Ballroom C
Short Course #4: Advanced Analytics – Machine Learning 101 (PROWESS)	Saturday	1:00 pm–5:00 pm	Bowie B
House of Delegates Leadership	Saturday	2:00 pm–5:00 pm	San Jacinto
EMD Executive Committee and Leadership	Saturday	3:00 pm–5:00 pm	Bowie C
DEG Executive Committee and Advisory Board	Saturday	3:00 pm–5:00 pm	Bowie A
AAPG House of Delegates/ PROWESS/DEG Networking Reception	Saturday	6:00 pm–7:30 pm	Lone Star Ballroom B/C
<b>Sunday</b>			
House of Delegates Meeting	Sunday	8:00 am	Lone Star Ballroom D/E/F
Interpretation Editorial Board	Sunday	10:00 am–12:00 pm	San Jacinto
Corporate Advisory Board	Sunday	11:00 am–2:00 pm	Lone Star Ballroom B
Charles Taylor Fellows	Sunday	12:30 pm–3:30 pm	Lone Star Ballroom C
Distinguished Lecture Committee	Sunday	1:00 pm–3:30 pm	Bowie C
Eastern Section of AAPG Council Meeting	Sunday	2:00 pm–4:00 pm	Henry B. Gonzalez Convention Center, Room 210 A/B
<b>Monday</b>			
Sunrise Yoga	Monday	6:30 am–7:30 am	Bowie A
History of Petroleum Geology	Monday	7:30 am–8:30 am	San Jacinto
Imperial Barrel Award Committee	Monday	8:00 am–10:00 am	Lone Star Ballroom A
AAPG Astrogeology Committee	Monday	1:00 pm–2:30 pm	Bowie C
Foundation Members of the Corporation and Trustees	Monday	1:30 pm–5:00 pm	Henry B. Gonzalez Convention Center, 207 A
Student Career Seminar	Monday	4:00 pm–6:00 pm	Lone Star Ballroom B
All-Alumni Reception	Monday	5:30 pm–7:30 pm	Lone Star Ballroom A
AAPG/SEPM Student Reception	Monday	6:00 pm–8:00 pm	Lone Star Ballroom D/E/F
<b>Tuesday</b>			
Sunrise Yoga	Tuesday	6:30 am–7:30 am	Bowie A
AAPG Mid-Continent Section	Tuesday	7:00 am–9:00 am	Lone Star Ballroom C
AAPG Preservation of Geoscience Data Committee	Tuesday	7:00 am–9:00 am	San Jacinto

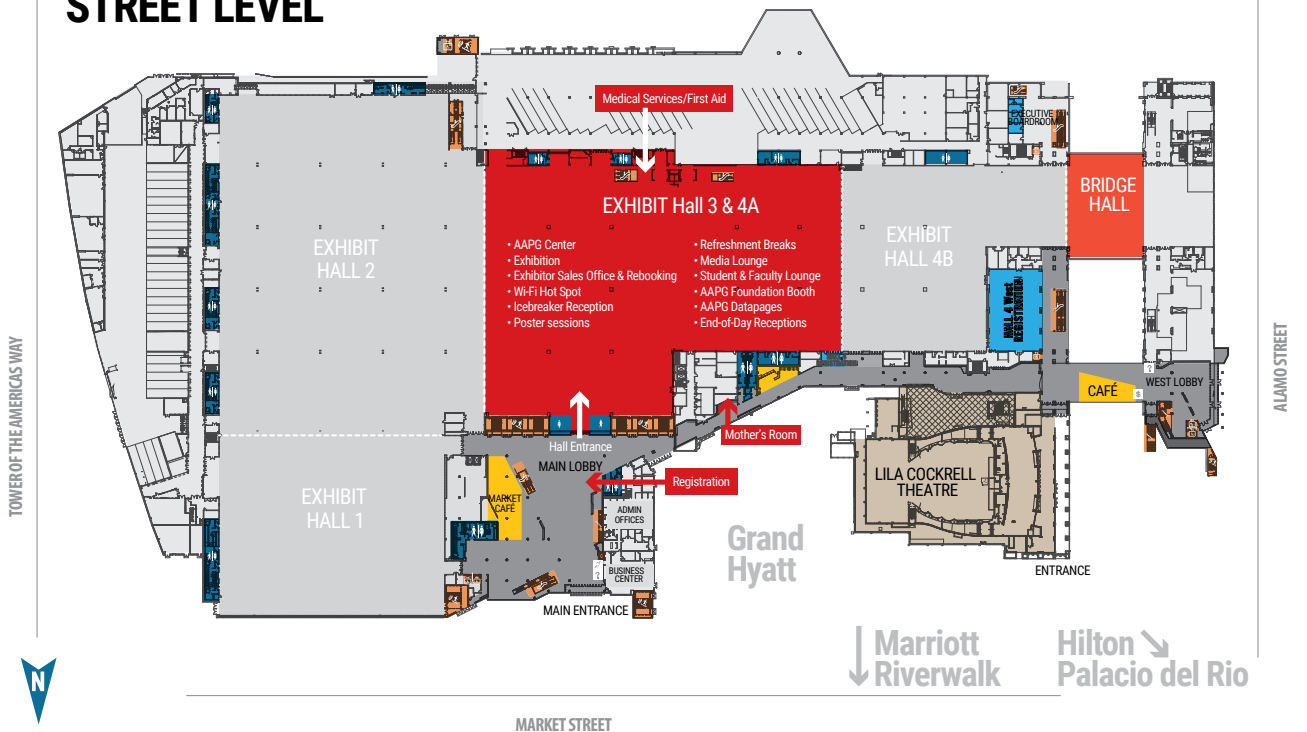
<b>Tuesday</b>			
Visiting Geoscientist SIG	Tuesday	7:30 am–9:00 am	Lone Star Ballroom A
Africa Region - Leadership Meeting	Tuesday	8:00 am–8:30 am	Lone Star Ballroom B
Africa Region - All Members Meeting	Tuesday	8:30 am–9:30 am	Lone Star Ballroom B
AAPG Field Safety Committee	Tuesday	2:00 pm–4:00 pm	San Jacinto
2019 ACE Wrap-Up Meeting	Tuesday	3:00 pm–4:00 pm	Bowie C
AAPG China Research Center	Tuesday	4:00 pm–6:00 pm	Bowie A
Latin America and Caribbean Region All-Member Meeting and Reception	Tuesday	5:30 pm–7:00 pm	Lone Star Ballroom C
Petroleum Structure and Geomechanics Division (PSGD)	Tuesday	5:30 pm–9:30 pm	Lone Star Ballroom B
Unconventional Research Group	Tuesday	7:00 pm–9:30 pm	Henry B. Gonzalez Convention Center, Room 214 A
<b>Wednesday</b>			
Sunrise Yoga	Wednesday	6:30 am–7:30 am	Bowie A
Global Events Oversight Committee	Wednesday	7:00 am–9:30 am	Lone Star Ballroom A
AAPG Advisory Council	Wednesday	2:00 pm–6:00 pm	Lone Star Ballroom A
<b>Thursday</b>			
AAPG Advisory Council	Thursday	8:00 am–5:00 pm	Republic A/B, 4th floor
<b>SEPM Committee Meetings – Meetings will be held at the San Antonio Marriott Riverwalk unless otherwise noted.</b>			
SEPM Council Meeting	Saturday	8:00 am–5:00 pm	Travis
NAMS Council Meeting	Sunday	3:00 pm–4:00 pm	Crockett
SEPM Foundation Reception	Tuesday	6:00 pm–7:00 pm	River Terrace Room & Patio
SEPM President's Reception	Tuesday	7:00 pm–9:00 pm	Alamo Ballroom Salons D/E/F
<b>SEPM Research Groups – Meetings will be held at the San Antonio Marriott Riverwalk unless otherwise noted.</b>			
Carbonate Research Group	Monday	7:00 pm–10:00 pm	Alamo Ballroom Salon C
Deepwater Research Group	Monday	7:00 pm–10:00 pm	Alamo Ballroom Salon D
NAMS Marine Micro Research Group	Monday	7:00 pm–10:00 pm	Bowie
Siliciclastic Diagenesis Research Group	Monday	7:00 pm–10:00 pm	Alamo Ballroom Salon A
<b>Other Meetings – Meetings will be held at the Grand Hyatt San Antonio unless otherwise noted.</b>			
AGI Executive Committee Meeting	Sunday	8:30 am–5:00 pm	Bowie B
AGI Member Society Council Meeting	Monday	8:00 am–11:30 am	Lone Star Ballroom C
AGI Leadership Reception	Monday	5:00 pm–7:00 pm	Bowie A

# CONVENTION CENTER FLOOR PLANS

## MEETING ROOM LEVEL

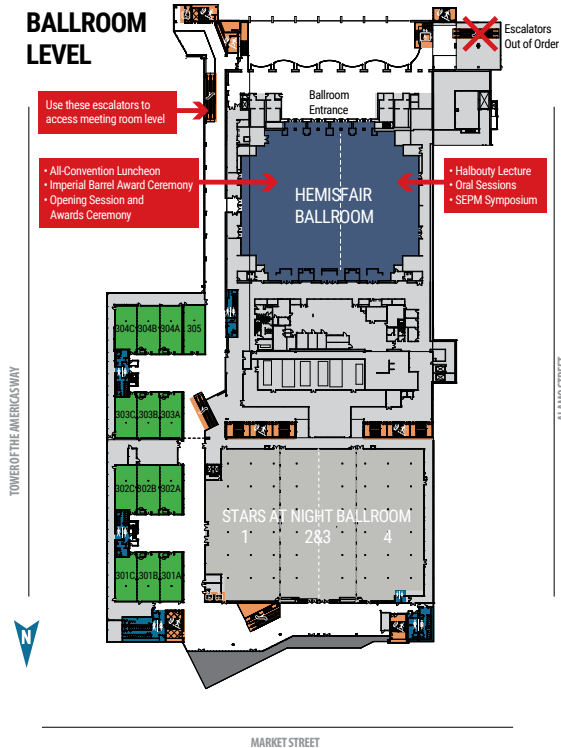


## STREET LEVEL

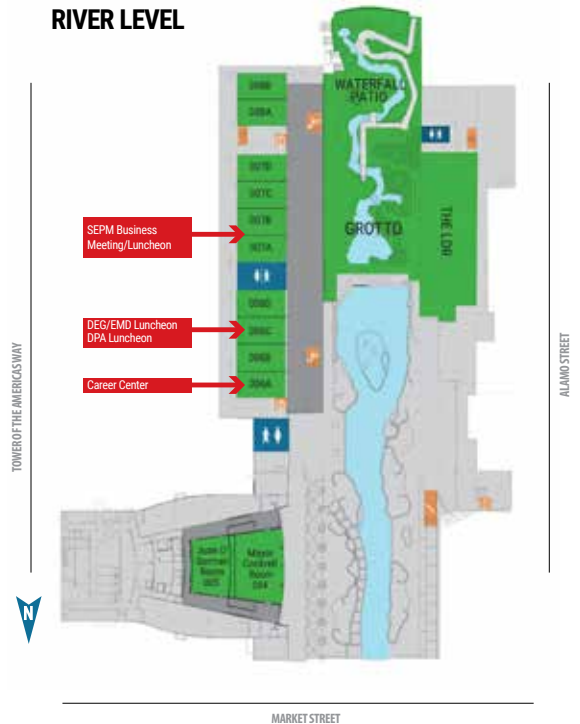




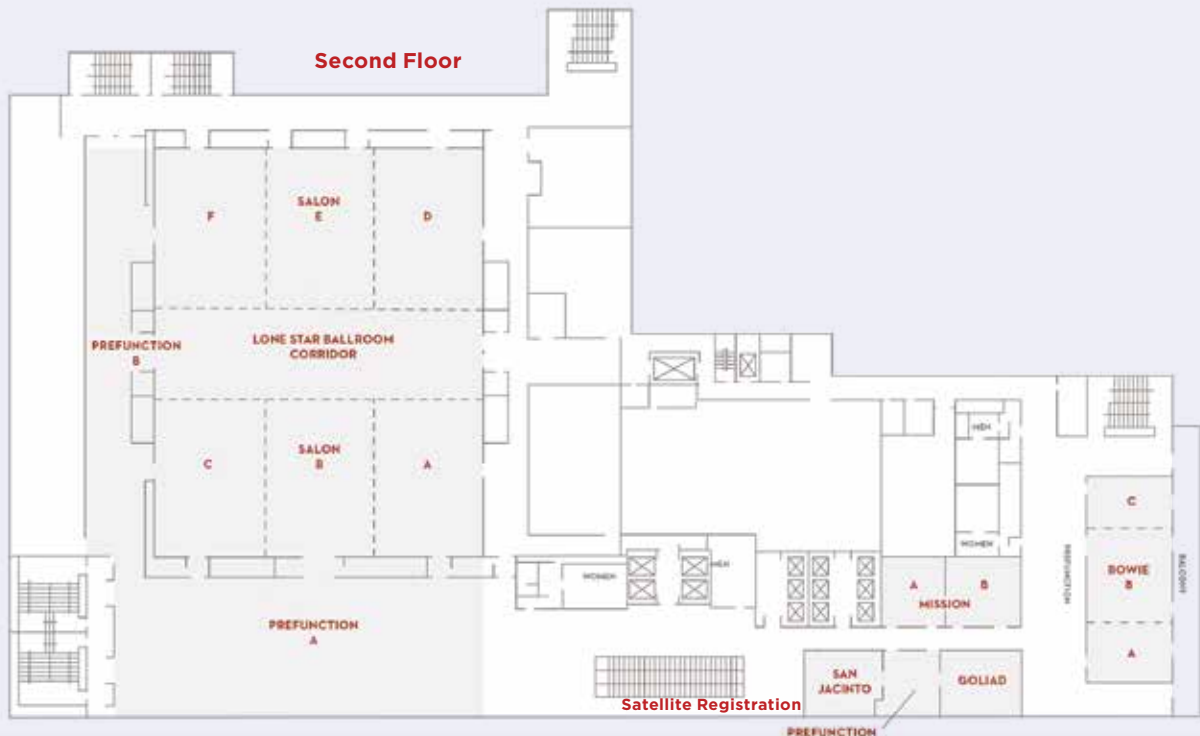
## BALLROOM LEVEL



## RIVER LEVEL



# GRAND HYATT FLOOR PLAN



# *Exhibition Information*

Exhibition Floor Plan

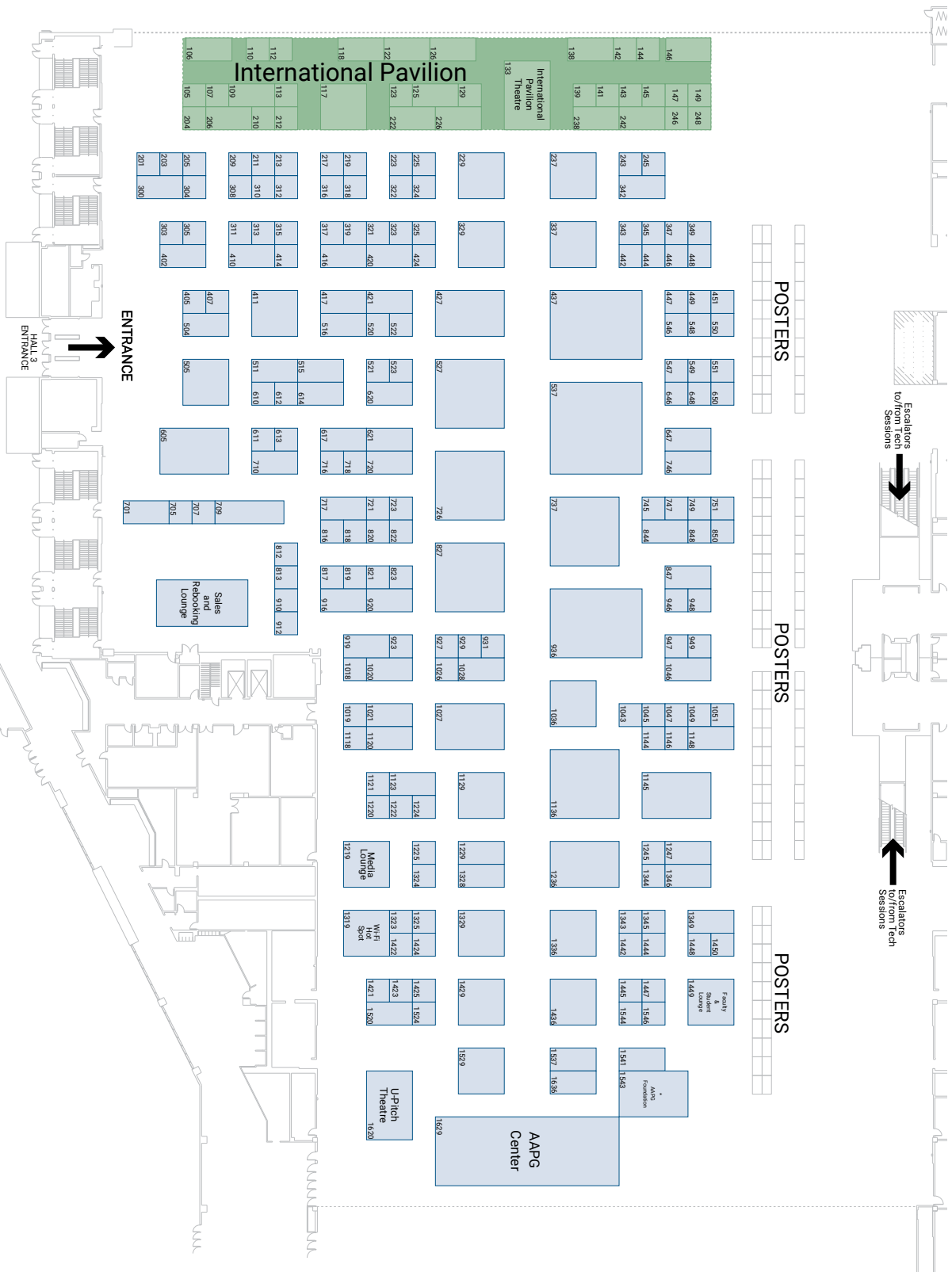
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Exhibitor Directory

Exhibitor Products and Services



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# MARK YOUR CALENDAR

## Important Award Deadlines 2019-20

### GRANTS-IN-AID PROGRAM

**OPENS: Sept. 2, 2019 | Deadline: Dec. 2, 2019**

The Grants-in-Aid program provides financial aid to graduate students whose thesis research has applications in the search for and development of petroleum mineral resources, and/or related environmental geology issues. Grants range from \$500 to \$3,000.

### TEACHER OF THE YEAR AWARD

**OPENS: Sept. 2, 2019 | Deadline: Jan. 31, 2020**

The AAPG Foundation awards \$6,000 to a K-12 teacher in the United States for Excellence in Teaching the geosciences. Encourage a dedicated K-12 Earth science teacher who fosters students' love of and understanding of the geosciences to apply today!

### L. AUSTIN WEEKS UNDERGRADUATE GRANT PROGRAM

**OPENS: Jan. 1, 2020 | Deadline: March 31, 2020**

The L. Austin Weeks Undergraduate Grant program provides \$500 grants to undergraduate geoscience students and student-led associations (student chapters and clubs) worldwide to help with tuition, books, equipment, field trips, and conferences.

### INSPIRATIONAL GEOSCIENCE EDUCATOR AWARD

**OPENS: Jan. 1, 2020 | Deadline: March 31, 2020**

The AAPG Foundation awards \$6,000 to a college or university professor for Excellence in Teaching natural resources or the geosciences. Nominate a professor who inspired your career in the geosciences.

### DEANA AND PAUL STRUNK MILITARY VETERANS SCHOLARSHIP PROGRAM

**OPENS: Feb. 15, 2020 | Deadline: May 1, 2020**

The Military Veterans Scholarship Program (MVSP) provides grants to veterans pursuing geoscience degrees at a four-year college or university in an effort to aid in their transition from military service to civilian career opportunities. Grants range from \$2,000 to \$4,000.

Southwest Research Institute	617
Spectrum Geo, Inc.	827
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ALT - Advanced Logic Technology is a leading developer of borehole logging equipment and data processing software.

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  - Slimhole geophysical logging systems (158°F- 2900 PSI)
- Releasing CoreCAD 2.0 – more on www.alt.lu

## Alaska Division of Geological & Geophysical Surveys

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