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

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

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

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

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Total

Technical Session Signage
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 Waerness (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!

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General Co-Chairs
AAPG 2019 Annual Convention and Exhibition
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ACE Service Center – Presenters, Judges, and Student Volunteers

Location: Room 212
Hours: Sunday 10:00 am–6:30 pm, Monday–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.

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

Business Center

Days and Times: Monday–Friday 8:00 am–6:30 pm, Saturday 9:00 am–5:00 pm
Location: UPS Store

Luggage Check

Day: Wednesday
Hours: 7:30 am–5:30 pm
Location: 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.vianetinfo.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.

1. Grand Hyatt Parking Garage
2. Convention Center Garage
3. Convention Center South Parking
4. Riverbend Garage

Safety and Security

First Aid
Location: Room H3-02 (Exhibit Hall 3/under Southwest Escalators)
Hours: Saturday 8:00 am–8:00 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 McCulloch 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 | +1 210 224 555
Hilton Palacio del Rio
200 S. Alamo St. San Antonio, Texas 78205 | +1 210 222 1400
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<td>Oral Sessions (Afternoon)</td>
</tr>
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Short Course and Field Trip information can be found on pages 36 and 38.
TAKING B2B MEDIA TO NEW HEIGHTS

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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 Bunham 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 Gaspe 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 EG 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 unconventionals 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.
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 Content (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, Marjonie 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
• 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 Vendettouli
• 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 Kertzus, 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”

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 neochnology. 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!
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
Networking & Events

Luncheons

U-Pitch

Networking Opportunities

Students

Young Professionals

SEPM Annual Meeting

Exhibition Highlights

International Pavilion

Social Activity

Guest Program

Short Courses

Field Trips
Arno van den Haak, Head, Worldwide Business Development Oil and Gas AWS Business Development

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

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 Waerness, Senior Vice President and Chief Economist, Equinor

Waerness, 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, Waerness leads Corporate Strategy, Corporate Planning and Analysis, Economic Analysis in Upstream Norway, and Energy Market Analysis.

Waerness 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
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
- 12:00 pm: Sergio Tuberquia, equipcast inc.
- 12:30 pm: Parminder Kaur, Agile Data Decisions
- 1:00 pm: Hector Klie, DeepCast, LLC
- 1:30 pm: Harold Nikipelo, Lifeview Petroleum Inc.
- 2:00 pm: Martin Perlmutter, SDAS: The Scalable Data Access System (Balex)
- 2:30 pm: Vitaly Meyer, PetroCubic: Job Sourcing and Pay-As-You-Use Software Licenses
- 3:00 pm: George Adcock, Resource Evaluations
- 3:30 pm: Miguel Bosch, Info Geosciences
- 4:00 pm: Konstandnos Zamfes, DMHE - Direct Methods of Hydrocarbon Exploration from Drilling Cuttings to Petrophysics and Frack Design and Interpretation.
- 4:30 pm: Sashi Gunturu, Petabytes: Cloud-Based Analytics (AI, ML) and Tools
- 5:00 pm: Alec Walker, DelfinSia: Virtual Advisor Assembles Structured Databases From Unstructured Data.
- 5:15 pm: Alan Gilmer, Drilling Info Disruptive Technologies

**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
- 5:15 pm: Investor and Commercialization Partner Presentations and Exhibit Hall Networking Reception

**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*
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:
- Binghampton 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, 3rd Floor
- Trinity University: Crockett A, 4th 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, 3rd 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/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 or contact a Programs Coordinator at 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.

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.
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 Paul, 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 Symposium: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record

Day: Tuesday  
Time: 8:00 am–11:50 am  
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) at SEPM headquarters or visit 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.
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
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
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.

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.

slb.com
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**Historic Pearl Brewery Tour**

<table>
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<tr>
<th>Day</th>
<th>Tuesday</th>
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<tr>
<td>Time</td>
<td>9:00 am–2:00 pm</td>
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<tr>
<td>Fee</td>
<td>$60</td>
</tr>
<tr>
<td>Includes</td>
<td>Transportation, tour guide, and private river barge ticket. <em>(lunch not included)</em></td>
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</table>

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**

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<th>Day</th>
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<td>Time</td>
<td>9:00 am–3:00 pm</td>
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<tr>
<td>Fee</td>
<td>$60</td>
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<tr>
<td>Includes</td>
<td>Transportation and tour guide <em>(lunch not included)</em></td>
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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**

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<tr>
<th>Day</th>
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<tr>
<td>Time</td>
<td>8:30 am–12:00 pm</td>
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<tr>
<td>Fee</td>
<td>$45</td>
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<tr>
<td>Includes</td>
<td>Transportation and tour guide <em>(breakfast not included)</em></td>
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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**

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<th>Day</th>
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<tr>
<td>Time</td>
<td>9:00 am–1:00 pm</td>
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<tr>
<td>Fee</td>
<td>$55</td>
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<tr>
<td>Includes</td>
<td>Transportation and tour guide <em>(lunch not included)</em></td>
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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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TNS GALLUP

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<table>
<thead>
<tr>
<th>PRE-CONVENTION</th>
<th>TITLE</th>
<th>INSTRUCTOR(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Deep-Water Depositional Environments: Processes and Products (SEPM)</td>
<td>Zoltan Sylvester, David Mohrig, Wonsuck Kim (University of Texas, Austin, Texas), Julian Clark (Equinor, Houston, Texas)</td>
</tr>
<tr>
<td>2</td>
<td>Advances in Representing Geologic Heterogeneity in Reservoir Models (SEPM)</td>
<td>Jake Covault, Michael Pyrcz (UT-Austin, Austin, Texas) and Richard Sech (Anadarko, The Woodland, Texas)</td>
</tr>
<tr>
<td>3</td>
<td>Petrography of Mudrock Hydrocarbon Reservoirs (RMAG)</td>
<td>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)</td>
</tr>
<tr>
<td>4</td>
<td>Advanced Analytics - Machine Learning 101 (PROWESS)</td>
<td>Sarah Coffman (ConocoPhillips, Houston, Texas)</td>
</tr>
<tr>
<td>6</td>
<td>Sequence Stratigraphy for Graduate Students (SEPM)</td>
<td>Morgan Sullivan (Chevron, Houston, Texas) and Art Donovan (Texas A&amp;M, Houston, Texas)</td>
</tr>
<tr>
<td>7</td>
<td>Essentials of Unconventional Play Based Exploration (EMD)</td>
<td>P. Jeffrey Brown (Rose and Associates, Santa Barbara, California) and Creties Jenkins (Rose and Associates, Santa Barbara, California)</td>
</tr>
<tr>
<td>11</td>
<td>Implement an End-to-End Upstream E&amp;P Workflow Solution Using Machine Learning / Beginner's Guide to Unstructured Data and Machine Learning in Oil and Gas (AAPG)</td>
<td>Sunil Garg (dataVedik, Houston, Texas) and Alec Walker (DelfinSia, Houston, Texas)</td>
</tr>
<tr>
<td>13</td>
<td>Essentials for Understanding Unconventional Mudrock Plays (SEPM)</td>
<td>Robert Loucks, Stephen Ruppel (University of Texas, Austin, Texas), and others</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POST-CONVENTION</th>
<th>TITLE</th>
<th>INSTRUCTOR(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Introduction to Data Science and Machine Learning in the Geosciences (SEPM)</td>
<td>Didi Ooi (Anadarko, Houston, Texas) and Michael Pyrcz (University of Texas, Austin, Texas)</td>
</tr>
</tbody>
</table>

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)
- 12. Integrated Approaches in Provenance – Tools and Recent Advancements Applied to Exploration (SEPM)
- 14. Advanced Geochemical Methods (SEPM)
<table>
<thead>
<tr>
<th>DATE(S) / TIME(S)</th>
<th>FEES</th>
<th>LOCATION</th>
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</thead>
</table>
| 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 |
| Thursday, 23 May 8:00 am–5:00 pm | Professionals $400  
Students $100 | San Antonio Marriott Riverwalk, Bowie |
# Pre-Convention Field Trips

<table>
<thead>
<tr>
<th>PRE-CONVENTION</th>
<th>TITLE</th>
<th>LEADER(S)</th>
<th>DATE(S) / TIME(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Slope and Deep-Water Mixed Carbonate-Siliciclastic Architectural Elements of the Delaware Basin: A Core and Field Workshop (SEPM)</td>
<td>Xavier Janson (Bureau of Economic Geology, The University of Texas at Austin); Greg Hurd (Chevron); Zane Jobe (Colorado School of Mines CoRE)</td>
<td>Wednesday, 15 May, 9:00 am–Saturday, 18 May, 7:00 pm *Trip starts in Midland, Texas and ends in El Paso, Texas</td>
</tr>
<tr>
<td>2</td>
<td>Mechanical Stratigraphy, Faulting, and Fracturing in Carbonates and Shale (AAPG/PSGD)</td>
<td>David A. Ferrill and Kevin Smart (Southwest Research Institute)</td>
<td>Thursday, 16 May, 8:00 am–Friday, 17 May 7:00 pm</td>
</tr>
<tr>
<td>3</td>
<td>Fluvial and Coastal Clastic Sedimentology and Ichnology in Modern Environments and Core (SEPM)</td>
<td>Anton Wroblewski (ConocoPhillips and University of Utah); Stephen Hasioti (University of Kansas); Peter Flaig (Bureau of Economic Geology, The University of Texas at Austin)</td>
<td>Friday, 17 May, 7:30 am–Saturday, 18 May, 6:30 pm</td>
</tr>
<tr>
<td>4</td>
<td>Late Cretaceous Submarine Volcanism in Central and South Texas: Loci of Carbonate Sedimentation and Hydrocarbon Accumulation (AGS/STGS)</td>
<td>S. Christopher Caran (Christopher Caran Consulting); Thomas E. Ewing (Frontera Exploration)</td>
<td>Friday, 17 May, 8:00 am–Saturday, 18 May, 5:00 pm</td>
</tr>
<tr>
<td>5</td>
<td>Oceanic Anoxic Events 1A&amp;B in Central Texas (SEPM)</td>
<td>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)</td>
<td>Saturday, 18 May, 8:00 am–7:00 pm *Trip starts and ends in Austin, Texas</td>
</tr>
<tr>
<td>6</td>
<td>Effects of the K-Pg Impact in Outcrops and Cores: Brazil River and IODP Core Repository (SEPM)</td>
<td>Sean Gulick, Chris Lowery, and Daniel Stockli (The University of Texas at Austin); Richard Denne (Texas)</td>
<td>Saturday, 18 May, 8:00 am–7:00 pm</td>
</tr>
<tr>
<td>7</td>
<td>Cave and Karst Geology at The Cave Without a Name (AAPG Young Professionals)</td>
<td>Tyler Quade (Windridge Oil &amp; Gas); Lauren Redmond (EOG); Ali Sloan (Parsley Energy); and John Casiano (Abraxas Petroleum Corporation)</td>
<td>Saturday, 18 May, 10:00 am–5:00 pm</td>
</tr>
<tr>
<td>8</td>
<td>Following the Water: Recharge, Springs, and Historic Missions (STGS/AAPG)</td>
<td>Thomas E. Ewing (Frontera Exploration)</td>
<td>Sunday, 19 May, 8:00 am–4:00 pm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>POST-CONVENTION</th>
<th>TITLE</th>
<th>LEADER(S)</th>
<th>DATE(S) / TIME(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Geologic Controls on Production From the Upper Cretaceous Eagle Ford and Austin Chalk Formations, South Texas (SEPM)</td>
<td>Bruce Hart (Equinor); Alexis Godet (The University of Texas at San Antonio); Mike Pope (Texas A&amp;M)</td>
<td>Thursday, 23 May, 8:00 am–Friday, 24 May, 7:00 p.m</td>
</tr>
<tr>
<td>11</td>
<td>Geology, Frontier History, and Oenology of the Texas Hill Country (AGS/STGS)</td>
<td>Peter R. Rose (Rose &amp; Associates); Thomas E. Ewing (Frontera Exploration)</td>
<td>Thursday, 23 May, 8:00 am–6:00 pm</td>
</tr>
<tr>
<td>13</td>
<td>Exploring the Origins of the Austin Chalk Cavernous Porosity: Implications for 3-D Reservoir Architecture Within Naturally Fractured Carbonate Reservoir Systems (STGS/AAPG)</td>
<td>Dr. George Veni (National Cave &amp; Karst Research Institute); John Cooper (Britanco, LLC)</td>
<td>Thursday, 23 May, 8:30 am–6:00 pm</td>
</tr>
</tbody>
</table>

Cancelled:
- 2. Carboniferous Strata and Reservoir Analogs of the Sacramento Mountains, New Mexico (SEPM)
- 12. Modern Texas Coastal Geology as Reservoir Analogs (SEPM)
Slope and Deep-Water Mixed Carbonate-Siliciclastic Architectural Elements of the Delaware Basin: A Core and Field Workshop (SEPM)
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
Professionals $1200 / Students $500 (limited)
(single occupancy)

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
Professionals $400 / Students $100 (limited)
*price does not include hotel accommodations

Fluvial and Coastal Clastic Sedimentology and Ichnology in Modern Environments and Core (SEPM)
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
Professionals $645 / Students $365 (limited)
(single occupancy)

Late Cretaceous Submarine Volcanism in Central and South Texas: Loci of Carbonate Sedimentation and Hydrocarbon Accumulation (AGS/STGS)
S. Christopher Caran (Christopher Caran Consulting); Thomas E. Ewing (Frontera Exploration)
Friday, 17 May, 8:00 am–Saturday, 18 May, 5:00 pm
Professionals / Students $300

Oceanic Anoxic Events 1A&B in Central Texas (SEPM)
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
Professionals $315 / Students $100 (limited)

Effects of the K-Pg Impact in Outcrops and Cores: Brazil River and IODP Core Repository (SEPM)
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
Professionals $215 / Students $100 (limited)

Cave and Karst Geology at The Cave Without a Name (AAPG Young Professionals)
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
Young Professionals $50

Following the Water: Recharge, Springs, and Historic Missions (STGS/AAPG)
Thomas E. Ewing (Frontera Exploration) Sunday, 19 May, 8:00 am–4:00 pm
Professionals $150 / Students $50 (limited)
Theme 1: Siliciclastic Systems
Vanessa Kertznus, 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, reservoir
Tiziana Vanorio, Stanford University

Theme 8: Deep Integration of Data and Disciplines
Sebastian Bayer, BHP
Brendon Hall, Enthought
Ashley Russell, Equinor
Bill Ambrose, BEG
Harry Mueller
Doug Cook, Pikes Peak Community College

Theme 10: Business, Finance, and Regulatory Framework
Daniel Zweidler, Consultant
Humberto Manuemento, 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

Theme 13: AAPG and SEPM Student Research
Alex Janevski, Shell
Beth Strickland, Shell
Howard Harper, SEPM
Rick Sarg, School of Mines
## Oral and Poster Sessions at a Glance

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<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Hemisfair Ballroom 1</th>
<th>Room 217 B/C</th>
<th>Room 217 D</th>
<th>Room 214 B/C</th>
<th>Room 217 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>8:00 am - 11:50 am</td>
<td>Theme 2: Characterizing Fracture and Karst Porosity and Permeability</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks</td>
<td>Theme 8: New Applications of Machine Learning to Subsurface Science</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
<td>Theme 1: Deep-Water Process Stratigraphy</td>
</tr>
<tr>
<td>Monday</td>
<td>1:15 pm - 5:05 pm</td>
<td>Discovery Thinking</td>
<td>Theme 2: Permian Basin Source to Sink Sedimentology and Stratigraphy</td>
<td>Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
<td>Theme 1: Deep-Water Process Stratigraphy</td>
</tr>
<tr>
<td>Monday</td>
<td>5:10 pm - 6:00 pm</td>
<td>Halbouty Lecture</td>
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<tr>
<td>Tuesday</td>
<td>8:00 am - 11:50 am</td>
<td>SEPM Research Symposium I: A Look into the Future of Energy and Sustainability Using the Sedimentary Record</td>
<td>Theme 5: Permian Basin Unconventionals</td>
<td>Theme 2: Depositional Models for Carbonate and Evaporite Systems</td>
<td>Theme 4: Compressional Environments: Trap to Basin</td>
<td>Theme 1: Source to Sink</td>
</tr>
<tr>
<td>Tuesday</td>
<td>1:15 pm - 5:05 pm</td>
<td>SEPM Research Symposium II: A Look into the Future of Energy and Sustainability Using the Sedimentary Record (PICG Session)</td>
<td>Theme 5: Advances in Unconventional Characterization II: From Kerogen to Produced Petroleum</td>
<td>Theme 2: Microbial Carbonates – Modern and Ancient Analog to Pre-salt Deposits</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II</td>
<td>Theme 10: Opportunity Valuation</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8:00 am - 11:50 am</td>
<td>Theme 10: Deals and Investment Decisions</td>
<td>Theme 5: Eagle Ford and Austin Chalk Unconventional Plays</td>
<td>Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?</td>
<td>Theme 4: Modeling of Structural and Geomechanical Processes</td>
<td>Theme 1: Applied Ichthyology in Honor of George Pemberton</td>
</tr>
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</table>

**Exhibit Hall**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>AAPG Student Poster Session I</th>
<th>SEPM Student Poster Session I</th>
<th>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</th>
<th>Theme 2: Carbonate Mixed Systems</th>
<th>Theme 6: Evolution of Organic and Inorganic Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>8:30 am - 12:00 pm</td>
<td>Theme 5: Analytical Techniques for Unconventional Reservoirs</td>
<td>Theme 9: New Global Exploration Play Concepts</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
<td>Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>Monday</td>
<td>1:30 pm - 5:00 pm</td>
<td>Theme 2: Carbonates – Fractures and Karst</td>
<td>Theme 9: New Global Exploration Play Concepts</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
<td>Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture</td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>8:30 am - 12:00 pm</td>
<td>Theme 2: Carbonates – Depositional Models I</td>
<td>Theme 3: Biomarker Applications in Petroleum Systems Analysis</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III</td>
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<tr>
<td>Tuesday</td>
<td>1:30 pm - 5:00 pm</td>
<td>Theme 7: Geophysics: Beyond Seismic Methods</td>
<td>Theme 2: Carbonates – Permian Basin</td>
<td>Theme 2: Carbonates – Depositional Models II</td>
<td>Theme 8: The Digital Transformation in the Geosciences</td>
<td>Theme 4: Structure and Geomechanics of Unconventional Plays</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8:30 am - 12:00 pm</td>
<td>Theme 6: Sustainability and Carbon</td>
<td>Theme 5: International Unconventional Plays</td>
<td>Theme 3: Hydrocarbon Migration and Charge Risk Assessment</td>
<td>Theme 1: New Advances in Mature Basins</td>
<td>Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times</td>
</tr>
<tr>
<td>Room 214 D</td>
<td>Room 214 A</td>
<td>Room 213 A/B</td>
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<tr>
<td>Theme 3: Geochemistry Applications in Petroleum Systems Characterization</td>
<td>Theme 9: Planetary Geology and Energy Frontiers</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
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<tr>
<td>Theme 2: Linked Systems of the Cretaceous Gulf of Mexico</td>
<td>Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis</td>
<td>Theme 6: Induced Seismicity and Water Management</td>
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<tr>
<td>Theme 3: Hydrocarbon Migration and Charge Risk Assessment</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
<td>Theme 6: Sustainability and Carbon</td>
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<tr>
<td>Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface</td>
<td>Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction</td>
<td>DEG Special Session: Environmental Impact and Sustainability</td>
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<tr>
<td>Theme 8: The Digital Transformation in the Geosciences</td>
<td>Theme 1: Diagenesis and Rock Property Trends in Siliciclastics</td>
<td>Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures</td>
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</table>

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

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**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!
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


8:45  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


9:25  Refreshment Break


11:00  Carbonate Shelf Margin Morphometrics: Insights From Multibeam and Airborne LIdar Bathymetry of the Caicos Platform: C. K. Zahm, C. Kerans, D. Duncan, M. Davis

11:10  Reservoir Implications of Facies and Diagenetic Variability in an Oolitic Grainstone – Pleistocene Miami Oolite: P. M. Harris, S. Purkis

* Denotes presenter is other than first author
### TECHNICAL PROGRAM MONDAY

**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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Introductory Remarks</td>
</tr>
<tr>
<td>8:45</td>
<td>Petrographic Evidence of the Origin of Differential Compaction in the Chert and Siliceous Shale Beds in the Woodford Shale of Oklahoma: C. D. Hall</td>
</tr>
<tr>
<td>8:45</td>
<td>Niobrara Surface Seismic Data—Resolution Enhancement and Reservoir Characterization Through Wavefield Re-Datuming and Inversion: J. Behura</td>
</tr>
</tbody>
</table>

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

Room 217 D  
Co-Chairs: C. Xu, C. Pellan, and S. Bhattacharya

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Introductory Remarks</td>
</tr>
<tr>
<td>8:25</td>
<td>Applying Conditional Generative Adversarial Networks for Seismic Data Reconstruction: R. S. Ferreira, D. A. Oliveira, E. V. Brazil</td>
</tr>
</tbody>
</table>

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**Get a More Complete Picture of the Permian
Explore the Delaware Basin More Accurately**

From geoscience to engineering, TGS has the most complete data libraries to help E&Ps make smarter investment decisions.

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- **3D Seismic**: advanced high-resolution imaging  
- **ARLAS**: using AI to make every wireline log a quad combo  
- **BTM**: stratigraphic basin temperature model  
- **TOC Cube**: petrophysically calibrated 3D volume of Total Organic Content

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**Come see us at booth BOOTH #737**
8:45 Spatial Sampling Bias in Learning Tree Machine Learning Methods for Unconventional Resources: W. Liu, M. Pyrcz, S. Ikonnikova, S. Ha, Lin, 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. Zang
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. Kanagandr
10:50 Leveraging Probabilistic MVCA of Well Logs for Defining and Quantifying Sweet Spots in Heterogeneous Reservoirs: E. V. Eslenger, 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
8:45 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
9:25 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
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
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


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


8:45  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*


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. Weissinger

11:30  Electricity Generation Potential of Co-Produced Water From Active Oil Wells in Eagleville 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


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. Uwwo


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,
TECHNICAL PROGRAM MONDAY

P6  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. Apano, 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


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


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 Nieuwenhuijsen

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


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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

P32 Barrier vs. Conduit Behavior of Faults Near Salt:
Examples From the Gypsum Valley Salt Wall, Paradox

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
Evidence for Permo-Triassic Salt Tectonics in the Eagle
Basin, Colorado, USA: R. W. Pearigen, B. D. Trudgill,
T. E. Hearon, M. Carr

P36 Role of Side-Burden Strength in the Shaping of Active
Salt Diasps: R. Goteti

P37 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 Lasticrite Deposits of the Upper
Yacaraité 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 Desmoineian Bug
Scuffle Limestone, Sacramento Mountains, New Mexico:
B. Rendall, G. P. Wahlman, C. Kerans

P41 Mixed Carbonate and Clastic Mass Failures in a
Sub-Lasticrite 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-Silicilastic 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. Nikolakakou 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. Mediaouri, P. Leffondré

P30 Radial Fractures and Ring Faults in Sediments Overlying
Layered Evaporite Sequences During Active Salt
Diapirism: Insights From Geomechanical Forward
Modeling: P. Tso, A. Eckert

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Gomez, D. Lee, M. Huuse, M. Finch, L. Pichel
TECHNICAL PROGRAM MONDAY


Theme 5: Evolution of the Organic and Inorganic Matrix
Chair: P. Welch


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. Fonteu, 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. Damayantti, 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


P52 Fluvial Architectures in Active Rift Settings: D. J. Somerville, N. P. Mountney, L. Colombera, 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
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


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


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. Colombera, N. P. Mountney


P72 Quantitative Fluvial Facies Models as Guides to Subsurface Interpretations: L. Colombera, N. P. Mountney


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


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 5: Permian Basin Unconventionals

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


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


P87 Analogous Juxtaposition of Mixed Lithologies Against a Siliciclastic Hydrocarbon Reservoir and Proposed CO₂ Storage Formation in the Norwegian North Sea: J. L. Osmond, M. J. Mulrooney, E. Skurtveit, A. Braathen

Theme 5: The Geology and Geochemistry of Helium CO₂, and Low-Chair:

P88 The Geology and Geochemistry of Helium CO₂, and Low-Chair: T. Darrah, J. Harrington, C. J. Whyte, E. L. Frost, R. Poreda


P95 The Evolution of the Delaware North West Shelf: R. Ball, S. Kimiagar*

Theme 6: Carbon Storage

Chair: K. Carter

P96 CO₂ Storage Potential of the Neogene Stratigraphy in the North Viking Graben: C. Lloyd, M. Huse


P101 Application of Geostatistical 3-D Earth Model for CO₂ Storage Capacity Estimation in Jacksonburg-Stringtown Oil Field, West Virginia, USA: Z. Zhong, T. R. Carr


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 Basin — The Permian Basin, USA: Geology, Depositional History, Basin Evolution, and Reservoir Development:  
1:40  Contrasting Guadalupian Infill Histories of the Midland and Delaware Basins:  
C. Kerans, R. D. Dommisse, 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. Zahn, C. Kerans, X. Janson, R. D. Dommisse, 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 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

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1:15</td>
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<tr>
<td>2:00</td>
<td>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</td>
</tr>
<tr>
<td>3:45</td>
<td>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</td>
</tr>
<tr>
<td>4:05</td>
<td>Timing of Late Pre-Salt Faulting and Salt Mobilization in the Santos Basin, Brazil: H. D. Lebit, J. Tilton, P. Ollagnon, S. Arasanipalai, B. Virlouvet</td>
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<tr>
<td>4:45</td>
<td>Loading-Driven Subsidence of Minibasins Into Salt: M. G. Rowan</td>
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### Theme 1: Deep-Water Process Stratigraphy

**Room 217 A**

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

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<td>1:15</td>
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<tr>
<td>1:40</td>
<td>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</td>
</tr>
<tr>
<td>2:00</td>
<td>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</td>
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### Theme 2: Linked Systems of the Cretaceous Gulf of Mexico

**Room 214 D**

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

<table>
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<td>1:20</td>
<td>Impacts of Apto-Albian OAE on the Comanche Shelf, Central Texas: R. M. Forkner, X. Sun, C. Kerans</td>
</tr>
<tr>
<td>1:40</td>
<td>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</td>
</tr>
<tr>
<td>2:00</td>
<td>Shelf-to-Basin Architecture and Facies Variability of a Cretaceous Intrashelf Basin in the Northwest Gulf of Mexico: J. Sitgreaves, C. Kerans</td>
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**Refreshment Break**

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<td>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</td>
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</table>
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 Clineforms: 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


2:40 Refreshment Break


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


* Denotes presenter is other than first author
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:
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 Poroelastic 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:
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 DPDK 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-Zink 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


P16  Portugal Prospective Petroleum Basins, Offshore Edge of Iberia Peninsula: R. Fainstein, R. Pena dos Reis, B. Duarte, N. Pimentel


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


P23  Exploration Practice of Subtle Reservoirs in Slope Zone of Shaleitain Uplift in Bohai Bay Basin: Y. Wei, M. Peng, L. Yanlai, B. Lien, Y. Qian


P25  Updated Lithological, Biostratigraphic, and Thermal Alteration Data for the Lower Paleozoic, Offshore Labrador, Canada: N. Bingham-Koslowski, M. A. Miller, T. McCartney

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

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


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


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


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 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, Puguang 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


P31  Inversion Case Studies From the SCOOP and STACK Areas in the Anadarko Basin: S. Chopra, R. K. Sharma, J. Keay


P33  Integration of Geomechanical Modeling and Seismic Data to Predict Pore Pressure and Stress in Complex Subsurface Settings: M. Heidari, M. Nikolainakou, P. B. Flemings

P34  High Resolution Seismic Sequence Stratigraphy of the NPRA, North Slope, Alaska: S. Berg

* Denotes presenter is other than first author
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


P45 Time Stratigraphy of River-Dominated Delta Deposits: B. J. Willis, T. Sun, R. Caldwell


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. Diaz, J. MacEachern, S. Dashtgard


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


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


P55 Cryptic Sequence Boundaries in an Ancient Offshore Mudstone-Dominated Succession: The Upper Cretaceous Mancos Shale Formation, South-Central Utah: Z. Li, J. Schieber


P58 Early Miocene High Island Delta System, Offshore Texas and Louisiana: M. I. Olariu, M. DeAngelo, D. B. Dunlap, R. H. Trevino

P59 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

P60 Deltaic Sedimentation and Stratigraphy of the Late Cretaceous Frontier Formation in the Southeast Bighorn Basin, Wyoming: S. Mullen, D. Elmore

P61 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


P63 To Deep-Water Sergipe Basin and Beyond: Q&A From Integrated Geoscience Investigations of Oils From Recent Wells: W. G. Dickson, C. F. Schiefelbein


P65 Rapid Characterization of Strata in the Delaware Basin by FTIR Modeling: J. Grant, C. Xiao, G. Torrez, H. Garza

P66 Organofacies Variability as a Function of Provenance and Process — Heterogeneity Within the Mowry Shale, Wyoming: B. J. Steeves, S. M. Hudson
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


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


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


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. Hearon and L. Sanchez


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


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


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


* Denotes presenter is other than first author
P95  The Challenges Brought by Oilfield Development Methods to Geological Modeling: Big Data Paradox and Modeling Strategies Based on Horizontal Wells Data: H. Wensong

P96  Quantifying the Impact of Well Spacing on Bakken Production: A Multivariate Study: P. Rutty


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
8:45 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
10:30 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
8:45 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
10:30 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

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
8:45 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
11:10 Optimizing Subsurface Predictions in a Mississippian Carbonate Field, Central Alberta, Canada – Part 2: P. Bauman, C. Barton

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
8:45 Structural Restoration of Cretaceous Inversion Events in the Bjørnøyrenna Fault Complex, Western Barents Shelf: M. F. Miraz, 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
10:50 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. Li, X. Chen, Y. Zhang, R. Liu, G. Xu

Theme 1: Source to Sink
Room 214 B
Co-Chairs: B. Romans, B. Dixon, and R. J. Steel
8:00 Introductory Remarks
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 Lobby3D, 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


10:50 Sediment Routing From Shelf to Basin Floor in the Quaternary Golfo System of Eastern Corsica: M. L. Sweet, G. T. Gaillot


11:30 Sediment Storage and Recycling in the Supply to Sand to the Indus Submarine Fan, Arabian Sea: P. D. Cliff, 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


8:45 A Geochemical Appraisal of the Potential Source(s) of Oils in the STACK and SCOOP Plays in the Anadarko Basin, Oklahoma: P. Philip, C. Symcox


9:25 Refreshment Break


10:30 Using Stochastic Charge Modeling Techniques to Understand Oil and Gas Column Uncertainties: O. Sylta, A. Tommeras, M. Dazsinnies, 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


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


9:25 Refreshment Break


10:30 Inter-Disciplinary Data Integration for Completions Optimization: A. Popescu, I. Kivagaev


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. Virlouvet

**Theme 6: Sustainability and Carbon**

Room 213 A/B

**Co-Chairs:** V. Nuñez and K. Carter

8:00 Introductory Remarks


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 CO2 Storage: A. Haagsma

9:25 Refreshment Break


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


**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. Notting 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


**P5** Oomolds in a Marine Realm? A Case Study From the Permian Basin’s Happy Spraberry Field: A. Albader, J. Lay, B. Miller, S. E. Kaczmarek

**P6** Integrating Cores, CT, NMR, HPMI 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


**P10** Karst Breccias and Pseudobreccias in the Ordovician Carbonates in the Halahatang Area, Tarim Basin, Northwestern China: Q. Fu

**P11** Late Ordovician-Early Silurian Sequence Framework and C-Isotope Stratigraphy of the Williston Basin: A. Husiniec

**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

**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. Husiniec

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**P18** Analytical Solutions for Growth of Linear Carbonate Platforms: N. Goudemand, P. Singh*, J. L. Payne

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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


P21  Petrophysical Characteristics of Carbonate Drift Deposits in the Maldives: E. L. Giddens, G. P. Eberli, R. J. Weger, T. Lueddemann, A. Slagle

Theme 3: Biomarker Applications in Petroleum Systems Analysis
Co-Chairs: A. Bennett, J. A. Curiale, and L. Heister


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


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


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


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


P41  Coupling Between Sedimentation and Deformation: How Emergence of Mini-Basins Connects to Turbidity-Current Sedimentation: X. Liu, D. Mohrig, J. Buttle

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 Abruting 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 Diaperic” Jurassic Morrison Formation, Big Gypsum Valley, Colorado: A. Soltero, R. Langford, K. A. Giles

**Theme 1: Deep-Water Sedimentology**

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


**P57** Quantifying the Relationship Between Structural Deformation and the Morphology of Submarine Channels From Shelf-Edge to Deep Water: Case Studies From the Niger Delta System: W. H. Mitchell, A. Whittaker, L. Lonergan, M. J. Mayall


**P59** Attribute Analysis and Morphologic Evaluation of an Incised Valley System in the Santos Basin, Brazil: J. Tilton, H. D. Lebit, H. Bedle

**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 Analogues: 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. Ludzik, B. Arnott

**P64** How Do Submarine Canyon-Channel Systems Shape Continental Margins?: L. A. Pettinga, L. Shumaker, Z. R. Jobe


**P66** Architecture of Channel Levee Build Up in Unidirectional Migrating Turbidite Channel Complexes in Pliocene Turbidite Channel Levee System of Indus Offshore Basin, Pakistan: E. Ul Haq, J. Youliang


**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. W. Zhang

**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


**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

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* Denotes presenter is other than first author
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


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


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. Dommisse


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 7: New Applications of Machine Learning to Subsurface Science
Co-Chairs: C. Xu, C. Pellan, and S. Bhattacharya


P99 Semantic Segmentation Pipeline for Seismic Data: D. Salles Chevitarese, E. Soares, R. Thiago, M. Nery, V. Torres, R. Cerqueira


P102 Advanced Quantitative Stratigraphic Data Integration of Conventional and Unconventional Plays: X. Liu, Y. Xiong, T. Vodo, A. Smith, M. A. Lorente
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
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
3:45 Fitting the Facies Mosaic Together: Controls on Lateral Heterogeneity of Microbial Reefs: M. D. Cantine, K. D. Bergmann

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

2:40 Refreshment Break
3:45 Computational Forward Modeling of Salt Tectonics in Varied Tectonic Settings: Computational Challenges, Applications, and Future Directions: D. Roberts, F. Paw
4:05 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. Tschemy

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


3:45  Understanding the Role of the First Carrier Bed: Simple Rules of Thumb and Workflows That Can Reduce the Dry Hole Rate: Z. He


4:25  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


1:40  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

2:40  Refreshment Break


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


4:45  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

* Denotes presenter is other than first author.
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
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

Theme 2: Carbonates: Permian Basin
Co-Chairs: J. Rush and M. T. Reistroffer

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. Reistroffer, M. Mitsdarffer, M. Grammer, C. M. Bowie, E. P. Kvale
P15 Wolfcamp to Third Bone Spring (Permian) Lithofacies From Core: Depositional Styles and Play Concepts, Delaware Basin: C. Collier, A. D. Parker
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 Lacsustrine Sediments (East Kirkton of Scotland) and Laboratory Experiments: L. Guo, S. Wu, W. Zhou, S. Passey


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


P35  Evaluation Method of Low Permeability Reservoirs Based on Logging Petrophysical Facies Identification: A Case Study of the Upper Member of Mengyin Formation in Gaoping 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


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 Sneee, M. D. Zoback

* Denotes presenter is other than first author.
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


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


Theme 5: Unconventional Reservoir Characterization I

Chair: G. Kamat


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. B. Brown


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


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
**TECHNICAL PROGRAM TUESDAY AND WEDNESDAY**

**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 Porosity Characterization of the Cretaceous Eagle Ford Formation: I. Galiani, 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. Savvaidis, 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 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


8:45 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


9:25 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. Galiani, 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

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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


8:45 An Integrated Approach to Dune System Analysis: D. Tatum, R. Westerman, C. Hern, J. Buckman, Z. Jiang
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<td>9:05</td>
<td>Heterogeneities and Facies Architecture in Aeolian Sands Using Core-Calibrated Borehole Logs:</td>
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<td>Deep-Water Norphlet: E. Cavallerano, C. Hern, C. Hern, J. A. Palmer</td>
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<td>9:25</td>
<td>Refreshment Break</td>
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<td>10:10</td>
<td>Allocyclic Controls Upon Clastic/Evaporitic Interactions in Arid Continental Settings:</td>
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<td>Implications for Reservoir Characterization and Modeling: R. Pettigrew, S. M. Clarke, P. Richards</td>
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<td>10:30</td>
<td>Autogenic Processes and Environmental Forcings Recorded in Aeolian Stratigraphy I:</td>
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<td>The Jurassic Page Sandstone, Arizona, USA: B. Cardenas, G. Kocurek, D. Mohrig, T. Swanson, C. Hughes, S. Brothers</td>
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<td>10:50</td>
<td>Autogenic Processes and Environmental Forcings Recorded in Aeolian Stratigraphy II:</td>
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<td>11:10</td>
<td>Stratigraphic Forward Modeling for Aeolian Reservoir Prediction: Norphlet (EGOM):</td>
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<td>O. Falivene, C. Hern, J. A. Palmer, U. R. Nordlund</td>
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<td>11:30</td>
<td>Multi-Resolution Modeling of Ephemeral Fluvial-Aeolian Interactions: Implications for Reservoir Characterization: C. Priddy, S. M. Clarke, P. Richards</td>
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**Theme 4: Modeling of Structural and Geomechanical Processes**

Room 214 B/C

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

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<tr>
<td>8:00</td>
<td>Introductory Remarks</td>
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<tr>
<td>8:05</td>
<td>Faulting Events: Moving Beyond Frictional Thinking: G. D. Couples, H. Lewis</td>
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<td>8:45</td>
<td>Flexible Kinematic Modeling Approaches Informed by Observations From Mechanical Forward Models and Natural Structures: A. N. Hughes, C. D. Connors</td>
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<tr>
<td>9:05</td>
<td>Structural and Mechanical Analyses of Thrust Ramp Development in Mechanically Stratified Sequences: S. Wigginton, J. P. Evans*, E. S. Petrie</td>
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<td>9:25</td>
<td>Refreshment Break</td>
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**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.

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<tr>
<td>8:05</td>
<td>The Neoichnological Basis for a Brackish-Water Ichnofacies: M. K. Gingras, S. E. Dashtgard, A. La Croix, K. L. Bann, J. A. MacEachern</td>
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<td>8:45</td>
<td>Interpreting Heterolithic Fabrics Using Ichnological Relationships: Case Study From the McMurray Formation, Alberta, Canada: S. Melnyk, M. Gingras</td>
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<td>9:25</td>
<td>Refreshment Break</td>
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<td>10:50</td>
<td>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</td>
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<tr>
<td>11:30</td>
<td>A Forced Regressive Asymmetric Delta, Lower Cretaceous Viking Formation, Kaybob – Fox Creek Fields, Alberta, Canada: J. A. MacEachern, N. Diaz</td>
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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
8:10 Geochemistry of a Thermally Immature Eagle Ford Group Drill Core in Central Texas: K. L. French, J. E. Birdwell, K. J. Whidden
8:25 Asphaltene-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 CH4-CO2-H2O Behavior in Unconventional Reservoirs:
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 New-Old Potential Field Data in the Alaska OCS: M. Unger
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 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 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
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
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
**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 CO₂ Storage Potential for the MRCSP: L. Cumming |
| P2 | Microbial Resetting After a CO₂ 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 |
| P4 | Explorations in TOC for Assessment of CO₂ 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 |
| P6 | CO₂ Mineralization in Natural Analogues 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 CO₂-EOR and Geological Carbon Sequestration: Z. Zhong, A. Sun |
| P8 | Reservoir Numerical Simulation for CO₂ Sequestration in the Paraná Basin, Brazil: N. Weber, C. Tassinari, M. A. Pinto, D. Peyerl* |
| P9 | Assessing the Potential for CO₂ EOR and CO₂ Storage in Depleted Oil Pools in Southeastern Saskatchewan, Canada: G. K. Jensen |
| P11 | Characterization of the High Island 24L Oil and Gas Field for Modeling and Estimating CO₂ Storage Capacity: I. Ruiz, T. Meckel |

**Theme 5: International Unconventional Plays**

Chair: T. Kosanke

| P13 | Hydrocarbon Accumulations in and Around Basalts in the Cenozoic of Northeast Bohai Bay Basin, China: Y. Huang, Q. Leng, J. Zhao, S. Wang |
| P15 | Calm Harbor Hypothesis: Chances for China’s Shale Gas Exploration in Structurally Complex Areas: L. Song, J. Zhang, F. Pang, S. Li |
| 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. Sadownik, T. F. Moslow* |
| 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 |
| 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. Kusznir, 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, Neuquen 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 |
### Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

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

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<td>K. Elderbak, R.M. Leckie, C. M. Lowery</td>
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<td>P42</td>
<td>Petrographic and Biostratigraphic Study on a Representative Core Section From the Kurdistan Region of Iraq</td>
<td>F. Russo, M. Kariminia, C. Wells, F. Ollivier, T. P. Burchette</td>
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<td>P41</td>
<td>Implications for Lower Cretaceous Reservoir Distribution and Geologic Controls for Shelf-Edge Delta Successions; North Slope Alaska</td>
<td>S. R. Nolan, J. Aschoff</td>
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### Theme 1: New Advances in Mature Basins

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

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<td>Trap and Fault Analysis: Revisiting Texas Gulf Coast</td>
<td>T. A. Murray, T. M. Helm, W. Power</td>
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<td>P31</td>
<td>A Novel Methodology of Using Well Log Analyses to Identify Brownfield and Greenfield ROZs in the Illinois Basin</td>
<td>N. Grigsby, N. Webb, S. Frailey</td>
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<td>P32</td>
<td>CO₂ Storage and EOR Resource Assessment of the Cypress Sandstone Residual Oil Zone Play in the Illinois Basin</td>
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<td>P33</td>
<td>New Opportunities in Old Fields: A Case Study From Dahomey Basin, Offshore West Africa</td>
<td>I. J. Ayodele, C. Cavelleri, E. B. Benard, A. Orimolade</td>
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<td>P35</td>
<td>A Collective Proven Play of Paleogene Lacustrine Rift Basins in Western Indonesia</td>
<td>E. H. Sihombing, L. J. Wood</td>
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<td>P41</td>
<td>Implications for Lower Cretaceous Reservoir Distribution and Geologic Controls for Shelf-Edge Delta Successions; North Slope Alaska</td>
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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. Jadoo, 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


P60 Basement-Driven Deformation of the Sedimentary Sequence in North-Central Oklahoma: F. Kolawole, B. Carpenter, Z. Reches, M. J. Turko Simpson


P64 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

P65 3-D Seismic Characterization of Sand Injectees in the Palaeogene Succession of the Northern North Sea: S. Nnororom, M. Huuse

P66 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

P67 Reservoir Prediction Based on Geostatistical Inversion by the Facies Trend Model: A Case Study From the Gudian Block, Northeast China: W. Wang

P68 Developing an Open Sheet Shale Depositional Model: The Early Ordovician Tøynen Shale Formation Example: A. Novák, S. O. Egenhoff

P69 Autogenic Progradation and Retrogradation Patterns in Deltaic Strata Generated by the Interplay Between Discharge and Basin Geometry: L. Stodden


P71 Lacustrine Carbonate-Siliciclastic Clinoforms in the Lower-Permian Lucaogou Low-Order Cycle, Southern Bogda Mountains, Northwest China: Y. Lu, W. Yang


P75 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
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

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

Utilization of High-Resolution Short- and Long-Wave Hyperspectral Imaging for Integrative Rock Typing: X. Liu, T. Kosanke

Obtaining Geomechanical Information From Hyperspectral Imaging of a Shale Core, Horn River Basin, Western Canada: N. B. Harris, B. Rivard, J. Feng, A. Moghadam

Convolutional Neural Networks for Semantic Segmentation of Micro-Pores in SEM Based Images of Shales: K. Ikeda, E. J. Goldfarb, N. Tisato


Long-Wave Infrared Core Imaging for Oil and Gas Applications: P. Linton, D. Browning*, T. H. Kosanke, J. Greene


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

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

Powder River Basin Unearthed...Will it be the Next Big Shale Play?: A. T. Folaranmi


Scolicia-Dominated Levee Deposits, Upper Cretaceous Nanaimo Group, Saltspring Island, British Columbia, Canada: M. Walters, J. A. MacEachern, S. M. Hubbard

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

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

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<td>Visualizing Depletion and Depletion-Induced Stress Changes in Unconventional Reservoirs: M. D. Zoback, L. Jin</td>
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<td>Machine Learning for Rapid Lithotype Classification From Multi-Log Suites to Assist Interpretation and Property Modeling: W. Bashore</td>
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<td>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</td>
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<td>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</td>
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<td>3:10</td>
<td>Probabilistic Approach for Estimating Reservoir Quality and Calculating Water Saturation: Montney Formation, Western Canada: N. Vaisblat, E. V. Eslinger, N. B. Harris</td>
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<td>Load Recovery in Hydraulic Fracturing: Insights Into Fracture Surface Area: A. Moghadam, N. Vaisblat, N. B. Harris, R. Chalaturnyk</td>
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<td>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</td>
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### Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

**Room 217 D**

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

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<td>1:20</td>
<td>The Role of Biostratigraphy and Biochronology in Constraining Sequence Stratigraphic Interpretation: M. Aubry</td>
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<td>Orbital Forcing Cyclostratigraphy of Miocene Formation in the South of Albert Rift, Uganda: W. Xu, Y. Zhang, L. Fang, L. Song</td>
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<td>2:00</td>
<td>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</td>
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<td>A Sequence Stratigraphic Framework for the Wilcox Group, Gulf of Mexico: P. Cornick, N. Campion, I. Prince</td>
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<td>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</td>
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<td>Improving Global Stratigraphic Resolution and Timescales for the Late Cretaceous: Carbon Isotope Chemostratigraphy and Integration With Biostratigraphy, Geochronology, and Orbital Tuning: I. Jarvis</td>
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<td>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</td>
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<td>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</td>
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<td>Nannofossil Paleoecological Indices: Implications for Reservoir Characterization, Petroleum Systems and Sequence Stratigraphy: A. Avery, R. D. Weber</td>
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* Denotes presenter is other than first author
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 δ13C1: 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


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: H. H. Doelling, D. A. Sprinkel, B. J. Kowallis, M. U. Zafar, M. Al-Dousiri


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. 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


2:40  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


3:50  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, Bonnition, 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

**Theme 8: The Digital Transformation in the Geosciences**

**Room 214 D**

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

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<td>An IIoT Platform for Agile Development and Deployment of Data-Driven Solutions in E&amp;P: T. Wen, X. Huang</td>
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<td>Challenges and Solution to AI Application in E&amp;P Decision-Making: S. Sun, J. Faroppa, S. Wu</td>
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<td>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</td>
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<td>Next-Generation Interpretation Workflows: S. Vallabhaneni, Y. Mao, A. Dev, S. Priyadarshy</td>
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<td>Automatic Interpretation in Structurally Complex Seismic Volumes: A. Bugge, J. Lie, J. Faleide, L. Vynnytska, S. Clark</td>
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<td>Release the APE: A Novel Approach to Produce Estimated Well Logs on Horizontal Wells and Improve Multivariate Predictive Models: P. Rutty, C. W. Grant</td>
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<td>4:30</td>
<td>Application of Neural Networks and Machine Learning in Tiltmeter Analysis in Hydraulic Fracturing Diagnostics: B. Bagherian</td>
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**Theme 1: Diagenesis and Rock Property Trends in Siliciclastics**

**Room 214 A**

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

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<td>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</td>
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**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. Woolridge, J. Utley, A. Hendry, M. Clare, G. Lintern, P. Talling

**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. Woolridge, J. E. Utley, C. McGhee, S. Acikali

**Distinct Petrographic Changes Across the Triassic-Jurassic Boundary in the Southwestern Bents Sea — Implications for Predicting Reservoir Quality:** L. Line, H. Hellevang, J. S. Jahren

**Break**

**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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[energyindata.org](http://energyindata.org)
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


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


4:10  Mapping Rock-Property Changes and Fluid Migration During Hydraulic Fracturing Using FWI of Microseismic Data: J. Behura


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<td>Carlson, Douglas</td>
<td>Tue.</td>
<td>am</td>
<td>4:00 Room 213 A/B</td>
<td>DEG Special Session: Environmental Impact and Sustainability</td>
</tr>
<tr>
<td>Cavallaro, Edward</td>
<td>Wed.</td>
<td>am</td>
<td>9:05 Room 217 D</td>
<td>Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?</td>
</tr>
<tr>
<td>Cebers-Korkmaz, Jennifer</td>
<td>Tue.</td>
<td>am</td>
<td>P48 Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III</td>
</tr>
<tr>
<td>Chaderton, Nysha</td>
<td>Tue.</td>
<td>pm</td>
<td>1:20 Room 213 A/B</td>
<td>The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists</td>
</tr>
<tr>
<td>Chao, Jiun-Chi</td>
<td>Wed.</td>
<td>am</td>
<td>P26 Exhibit Hall</td>
<td>Theme 3: Hydrocarbon Migration and Charge Risk Assessment</td>
</tr>
<tr>
<td>Chaltafis, Dimitrios</td>
<td>Wed.</td>
<td>pm</td>
<td>1:20 Room 214 A</td>
<td>Theme 1: Diagenesis and Rock Property Trends in Siliciclastics</td>
</tr>
<tr>
<td>Chatellier, Jean-Yves</td>
<td>Tue.</td>
<td>pm</td>
<td>P90 Exhibit Hall</td>
<td>Theme 5: Unconventional Reservoir Technology</td>
</tr>
<tr>
<td>Chatellier, Jean-Yves</td>
<td>Wed.</td>
<td>am</td>
<td>2:00 Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies</td>
</tr>
<tr>
<td>Chauveau, Benoit</td>
<td>Tue.</td>
<td>pm</td>
<td>P82 Exhibit Hall</td>
<td>Theme 1: Source to Sink II</td>
</tr>
<tr>
<td>Chen, Guohui</td>
<td>Mon.</td>
<td>am</td>
<td>P48 Exhibit Hall</td>
<td>Theme 5: Evolution of the Organic and Inorganic Matrix</td>
</tr>
<tr>
<td>Chen, Hehe</td>
<td>Mon.</td>
<td>am</td>
<td>P76 Exhibit Hall</td>
<td>Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis</td>
</tr>
<tr>
<td>Chen, Hehe</td>
<td>Tue.</td>
<td>pm</td>
<td>P69 Exhibit Hall</td>
<td>Theme 1: Source to Sink II</td>
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<tr>
<td>Chen, Si</td>
<td>Mon.</td>
<td>pm</td>
<td>P51 Exhibit Hall</td>
<td>Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>Name</td>
<td>Day</td>
<td>Time</td>
<td>Location</td>
<td>Theme or Session</td>
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<tr>
<td>Chidsey, Thomas</td>
<td>Wed.</td>
<td>3:50</td>
<td>Room 217 A</td>
<td>Theme 9: New Global Exploration and Play Concepts</td>
</tr>
<tr>
<td>Chima, Kelvin</td>
<td>Mon.</td>
<td>P60</td>
<td>Exhibit Hall</td>
<td>Theme 1: Interaction Between Sedimentation and Tectonics II</td>
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<tr>
<td>Chopra, Satinder</td>
<td>Mon.</td>
<td>P31</td>
<td>Exhibit Hall</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
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<tr>
<td>Chowdhury, Khaled</td>
<td>Wed.</td>
<td>P85</td>
<td>Exhibit Hall</td>
<td>SEPM Student Research Poster Session II</td>
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<tr>
<td>Clark, Julian</td>
<td>Tue.</td>
<td>10:30</td>
<td>Room 217 A</td>
<td>Theme 1: Source to Sink</td>
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<tr>
<td>Clark, Karl</td>
<td>Tue.</td>
<td>P51</td>
<td>Exhibit Hall</td>
<td>Theme 4: Modeling of Structural and Geomechanical Processes</td>
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<tr>
<td>Clark, Kendra</td>
<td>Wed.</td>
<td>P45</td>
<td>Exhibit Hall</td>
<td>Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times</td>
</tr>
<tr>
<td>Clift, Peter</td>
<td>Tue.</td>
<td>11:30</td>
<td>Room 217 A</td>
<td>Theme 1: Source to Sink</td>
</tr>
<tr>
<td>Collier, Clark</td>
<td>Tue.</td>
<td>P15</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Permian Basin</td>
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<tr>
<td>Colombera, Luca</td>
<td>Mon.</td>
<td>P72</td>
<td>Exhibit Hall</td>
<td>Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis</td>
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<tr>
<td>Colombera, Luca</td>
<td>Mon.</td>
<td>P50</td>
<td>Exhibit Hall</td>
<td>Theme 1: Paralic and Shallow Marine Systems I: Process Variability and Impact on Reservoir Distribution and Architecture</td>
</tr>
<tr>
<td>Conte, Roy</td>
<td>Wed.</td>
<td>11:30</td>
<td>Room 217 B/C</td>
<td>Theme 5: Eagle Ford and Austin Chalk Unconventional Plays</td>
</tr>
<tr>
<td>Cook, Douglas</td>
<td>Mon.</td>
<td>10:10</td>
<td>Room 214 A</td>
<td>Theme 9: Planetary Geology and Energy Frontiers</td>
</tr>
<tr>
<td>Cooke, Andy</td>
<td>Mon.</td>
<td>P86</td>
<td>Exhibit Hall</td>
<td>Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs</td>
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<tr>
<td>Core, Elson</td>
<td>Tue.</td>
<td>P23</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Depositional Models II</td>
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<tr>
<td>Cornick, Paul</td>
<td>Wed.</td>
<td>2:40</td>
<td>Room 217 D</td>
<td>Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times</td>
</tr>
<tr>
<td>Cornu, Tristan</td>
<td>Tue.</td>
<td>4:05</td>
<td>Room 214 D</td>
<td>Theme 3: Integrated Workflows in Petroleum Systems Modeling</td>
</tr>
<tr>
<td>Correa, Rodrigo</td>
<td>Tue.</td>
<td>P9</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Fractures and Karst</td>
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<tr>
<td>Cosgrove, Grace</td>
<td>Mon.</td>
<td>P57</td>
<td>Exhibit Hall</td>
<td>Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>Cossey, Stephen</td>
<td>Tue.</td>
<td>P70</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine-grained Deposits</td>
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<tr>
<td>Coulombe, Craig</td>
<td>Wed.</td>
<td>2:20</td>
<td>Room 213 A/B</td>
<td>Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures</td>
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<tr>
<td>Couples, Gary</td>
<td>Mon.</td>
<td>10:50</td>
<td>Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks</td>
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<tr>
<td>Couples, Gary</td>
<td>Wed.</td>
<td>8:05</td>
<td>Room 214 B/C</td>
<td>Theme 4: Modeling of Structural and Geomechanical Processes</td>
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<tr>
<td>Covault, Jacob</td>
<td>Mon.</td>
<td>8:45</td>
<td>Room 217 A</td>
<td>Theme 1: Deep-water Systems Architecture: From Controls to Characterization</td>
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<tr>
<td>Covault, Jacob</td>
<td>Mon.</td>
<td>P66</td>
<td>Exhibit Hall</td>
<td>Theme 1: Interaction Between Sedimentation and Tectonics II Awaiting Mid-Career Geoscientists</td>
</tr>
<tr>
<td>Cox, Denise</td>
<td>Tue.</td>
<td>1:20</td>
<td>Room 213 A/B</td>
<td>The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists</td>
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<tr>
<td>Crisostomo Figueroa, A.</td>
<td>Mon.</td>
<td>P2</td>
<td>Exhibit Hall</td>
<td>AAPG Student Research Poster Session I</td>
</tr>
<tr>
<td>Crombez, Vincent</td>
<td>Mon.</td>
<td>9:05</td>
<td>Room 214 D</td>
<td>Theme 3: Geochemistry Applications in Petroleum Systems Characterization</td>
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<tr>
<td>Cronin, Bryan</td>
<td>Tue.</td>
<td>P8</td>
<td>Exhibit Hall</td>
<td>Theme 7: Geophysics: Beyond Seismic Methods</td>
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<tr>
<td>Cui, Cecilia</td>
<td>Wed.</td>
<td>10:30</td>
<td>Hemisfair Ballroom I</td>
<td>Theme 1: Deep-water Systems Architecture: From Controls to Characterization</td>
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<tr>
<td>Cumberpatch, Zoe</td>
<td>Mon.</td>
<td>P31</td>
<td>Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
</tr>
<tr>
<td>Cumming, Lydia</td>
<td>Tue.</td>
<td>8:05</td>
<td>Room 213 A/B</td>
<td>Theme 6: Sustainability and Carbon</td>
</tr>
<tr>
<td>Cumming, Lydia</td>
<td>Mon.</td>
<td>P1</td>
<td>Exhibit Hall</td>
<td>Theme 6: Sustainability and Carbon</td>
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<tr>
<td>Cunningham, Celeste</td>
<td>Mon.</td>
<td>P76</td>
<td>Exhibit Hall</td>
<td>Theme 3: Source Rock Depositional Environments</td>
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<tr>
<td>Curkan, Jordan</td>
<td>Mon.</td>
<td>P12</td>
<td>Exhibit Hall</td>
<td>AAPG Student Research Poster Session I</td>
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<tr>
<td>Curtis, A.</td>
<td>Wed.</td>
<td>3:10</td>
<td>Room 213 A/B</td>
<td>Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures</td>
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<tr>
<td>Curtiss, David</td>
<td>Tue.</td>
<td>1:20</td>
<td>Room 213 A/B</td>
<td>The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists</td>
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<tr>
<td>Curtis, John</td>
<td>Mon.</td>
<td>8:25</td>
<td>Room 214 D</td>
<td>Theme 3: Geochemistry Applications in Petroleum Systems Characterization</td>
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<tr>
<td>Cutright, Bruce</td>
<td>Mon.</td>
<td>8:45</td>
<td>Room 214 A</td>
<td>Theme 9: Planetary Geology and Energy Frontiers</td>
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<tr>
<td>Name</td>
<td>Day</td>
<td>Time</td>
<td>Room</td>
<td>Theme and Details</td>
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<td>Dada, Olamide</td>
<td>Tue.</td>
<td>10:50</td>
<td>Room 214 A</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
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<tr>
<td>Dafoe, Lynn</td>
<td>Wed.</td>
<td>10:10</td>
<td>Room 217 A</td>
<td>Theme 1: Applied Ichnology: In Honor of George Pemberton</td>
</tr>
<tr>
<td>Damico, James</td>
<td>Mon.</td>
<td>P98</td>
<td>Exhibit Hall</td>
<td>Theme 6: Carbon Storage</td>
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<tr>
<td>Damuth, John</td>
<td>Tue.</td>
<td>P61</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Sedimentology</td>
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<tr>
<td>Daniels, Benjamin</td>
<td>Tue.</td>
<td>P62</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Sedimentology</td>
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<tr>
<td>Darrah, Thomas</td>
<td>Mon.</td>
<td>P88</td>
<td>Exhibit Hall</td>
<td>Theme 5: Permian Basin Unconventionals</td>
</tr>
<tr>
<td>Darrah, Thomas</td>
<td>Mon.</td>
<td>4:25</td>
<td>Room 217 D</td>
<td>Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent</td>
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<tr>
<td>Dashtgard, Shahin</td>
<td>Wed.</td>
<td>8:25</td>
<td>Room 217 A</td>
<td>Theme 1: Applied Ichnology: In Honor of George Pemberton</td>
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<tr>
<td>Davies, Bryn</td>
<td>Tue.</td>
<td>10:50</td>
<td>Room 217 B/C</td>
<td>Theme 5: Permian Basin Unconventionals</td>
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<tr>
<td>Davies, Russell</td>
<td>Mon.</td>
<td>P82</td>
<td>Exhibit Hall</td>
<td>Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs</td>
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<tr>
<td>Del Moro, Yoryens</td>
<td>Tue.</td>
<td>9:05</td>
<td>Room 217 B/C</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
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<tr>
<td>Demchuk, Thomas</td>
<td>Tue.</td>
<td>9:05</td>
<td>Room 214 A</td>
<td>Theme 5: Permian Basin Unconventionals</td>
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<tr>
<td>Deng, Hang</td>
<td>Tue.</td>
<td>P67</td>
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<td>Theme 1: Deep-water Sedimentology</td>
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<tr>
<td>Deng, Jack</td>
<td>Mon.</td>
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<td>Exhibit Hall</td>
<td>Theme 5: Analytical Techniques for Unconventional Reservoirs</td>
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<tr>
<td>Denison, Christopher</td>
<td>Tue.</td>
<td>1:20</td>
<td>Room 214 A</td>
<td>Theme 1: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>DeVito, Steve</td>
<td>Wed.</td>
<td>3:10</td>
<td>Room 217 A</td>
<td>Theme 9: New Global Exploration and Play Concepts</td>
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<tr>
<td>Dickson, William</td>
<td>Mon.</td>
<td>P65</td>
<td>Exhibit Hall</td>
<td>Theme 3: Source Rock Depositional Environments</td>
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<tr>
<td>Dolan, Michael</td>
<td>Wed.</td>
<td>4:10</td>
<td>Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies</td>
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<tr>
<td>Domnisse, Robin</td>
<td>Tue.</td>
<td>P16</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Permian Basin</td>
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<tr>
<td>Dong, Li</td>
<td>Tue.</td>
<td>P1</td>
<td>Exhibit Hall</td>
<td>Theme 7: Geophysics: Beyond Seismic Methods</td>
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<tr>
<td>Dong, Rencheng</td>
<td>Wed.</td>
<td>10:10</td>
<td>Room 214 D</td>
<td>Theme 3: From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface</td>
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<tr>
<td>Donnelly, Sara</td>
<td>Tue.</td>
<td>P71</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine-grained Deposits</td>
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<tr>
<td>Doolan, Colin</td>
<td>Mon.</td>
<td>P77</td>
<td>Exhibit Hall</td>
<td>Theme 3: Source Rock Depositional Environments</td>
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<tr>
<td>Dooley, Tim</td>
<td>Mon.</td>
<td>P28</td>
<td>Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II</td>
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<tr>
<td>Dooley, Tim</td>
<td>Tue.</td>
<td>P35</td>
<td>Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II</td>
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<tr>
<td>Dou, Luxing</td>
<td>Mon.</td>
<td>P77</td>
<td>Exhibit Hall</td>
<td>Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis</td>
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<tr>
<td>Drake, Ronald</td>
<td>Wed.</td>
<td>P99</td>
<td>Exhibit Hall</td>
<td>Theme 5: Unconventional Plays: Appalachians, Rockies, and Midcontinent</td>
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<tr>
<td>Draper, Cody</td>
<td>Tue.</td>
<td>P12</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Permian Basin</td>
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<tr>
<td>Draper, Hannah</td>
<td>Tue.</td>
<td>P38</td>
<td>Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II</td>
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<tr>
<td>Droxler, Andre</td>
<td>Tue.</td>
<td>4:25</td>
<td>Room 217 D</td>
<td>Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits</td>
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<tr>
<td>Duarte, David</td>
<td>Tue.</td>
<td>P37</td>
<td>Exhibit Hall</td>
<td>Theme 8: The Digital Transformation in the Geosciences</td>
</tr>
<tr>
<td>Duarte, David</td>
<td>Tue.</td>
<td>P38</td>
<td>Exhibit Hall</td>
<td>Theme 4: Structure and Geomechanics of Unconventional Plays</td>
</tr>
<tr>
<td>Duarte, Edward</td>
<td>Wed.</td>
<td>P63</td>
<td>Exhibit Hall</td>
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</tr>
<tr>
<td>Duff, Patrick</td>
<td>Mon.</td>
<td>P8</td>
<td>Exhibit Hall</td>
<td>AAPG Student Research Poster Session I</td>
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<tr>
<td>Duffy, Oliver</td>
<td>Mon.</td>
<td>1:20</td>
<td>Room 214 B/C</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
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<tr>
<td>Dunham, John</td>
<td>Wed.</td>
<td>11:10</td>
<td>Room 214 A</td>
<td>Theme 2: Carbonate Rock Properties and Reservoir Performance Prediction</td>
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<tr>
<td>Dunkel, Michael</td>
<td>Mon.</td>
<td>4:45</td>
<td>Room 213 A/B</td>
<td>Theme 6: Induced Seismicity and Water Management</td>
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<tr>
<td>Dura, Tina</td>
<td>Tue.</td>
<td>10:10</td>
<td>Hemisfair Ballroom I</td>
<td>SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record</td>
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<tr>
<td>Duran, Diana</td>
<td>Tue.</td>
<td>8:45</td>
<td>Room 214 A</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
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</table>
Duran, Diana  Tue. pm 1:20 Room 213 A/B The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists

Durkin, Paul  Mon. am P78 Exhibit Hall Theme 1: Continental Depositional Environments: Reservoir Prediction From Multiple Scale Analysis

Duval, Bernard  Wed. am 8:05 Hemisfair Ballroom I Theme 10: Deals and Investment Decisions

Dvoretsky, Rachel  Mon. pm P46 Exhibit Hall Theme 2: Carbonate Mixed Systems

Eberli, Gregor  Tue. pm 4:45 Room 217 D Theme 2: Microbial Carbonates: Modern and Ancient Analogs for Pre-salt Deposits

Eckert, Andreas  Tue. am P65 Exhibit Hall Theme 1: Deep-water Sedimentology

Eckert, Andreas  Tue. pm P49 Exhibit Hall Theme 4: Modeling of Structural and Geomechanical Processes

Egorov, Vsevolod  Wed. am P53 Exhibit Hall Theme 4: Global Perspectives on Compressional Deformation

Eichelberger, Nathan  Mon. am 9:05 Room 214 B/C Theme 4: Global Studies of Extensional and Passive Margins

Eichhubl, Peter  Wed. pm 1:20 Room 214 B/C Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs

Elderbakh, Khalifa  Wed. am P40 Exhibit Hall Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

Eliassen, Gauti Trygason  Mon. am P5 Exhibit Hall AAPG Student Research Poster Session I

Eljalafi, Abdulah  Mon. pm 3:45 Room 214 D Theme 2: Linked Systems of the Cretaceous Gulf of Mexico

Engle, Mark  Tue. am P84 Exhibit Hall Theme 6: Induced Seismicity and Water Management

Englert, Rebecca  Tue. am P56 Exhibit Hall Theme 1: Innovation and Technology in Biostratigraphy for Challenging Times

Englert, Rebecca  Wed. pm 4:10 Room 217 D Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?

Eslinger, Eric  Mon. am 10:50 Room 217 D Theme 8: New Applications of Machine Learning to Subsurface Science

Evans, James  Wed. am 9:05 Room 214 B/C Theme 4: Modeling of Structural and Geomechanical Processes

Eymold, William  Mon. am 8:25 Room 217 B/C Theme 5: Advances in Unconventional Reservoir Characterization I: The Rocks

Fairhurst, William  Mon. pm P16 Exhibit Hall Theme 9: New Global Exploration and Play Concepts

Falivene, Oriol  Wed. am 11:10 Room 217 D Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?

Faleide, Thea Sveva  Mon. am P53 Exhibit Hall Theme 1: Interaction Between Sedimentation and Tectonics I

Faleide, Thea Sveva  Mon. am P53 Exhibit Hall Theme 1: Interaction Between Sedimentation and Tectonics I

Falzone, Christian  Tue. pm P4 Exhibit Hall Theme 7: Geophysics: Beyond Seismic Methods

Fan, Caiwei  Wed. am P27 Exhibit Hall Theme 3: Hydrocarbon Migration and Charge Risk Assessment

Farhana Hasnan, Hasnoro  Mon. am P30 Exhibit Hall Theme 7: Integration of Geology and Geophysics

Faropppa, James  Tue. am P107 Exhibit Hall Theme 8: New Applications of Machine Learning to Subsurface Science

Favorite, Daniel  Wed. am 8:25 Room 214 B/C Theme 4: Modeling of Structural and Geomechanical Processes

Fearn, Mary  Tue. pm P101 Exhibit Hall Theme 5: Unconventional Reservoir Characterization II

Fender, Thomas  Tue. pm P41 Exhibit Hall Theme 4: Structure and Geomechanics of Unconventional Plays

Ferguson, Ross  Mon. am 3:25 Room 217 A Theme 1: Deep-water Process Stratigraphy

Fernandez, Nairia  Tue. am P39 Exhibit Hall Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II

Fernandez-Ibanez, Fermin  Mon. am 10:10 Hemisfair Ballroom I Theme 2: Characterizing Fracture and Karst Porosity and Permeability

Ferreira, Rodrigo  Mon. am 8:25 Room 217 D Theme 8: New Applications of Machine Learning to Subsurface Science

Ferrill, David  Mon. am P80 Exhibit Hall Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs

Ferron, Curtis  Mon. am P26 Exhibit Hall SEPM Student Research Poster Session I

Ferry, Nicholas  Mon. am P50 Exhibit Hall Theme 1: Interaction Between Sedimentation and Tectonics I

Fiduk, Joseph  Mon. pm 2:00 Room 214 B/C Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I

Fielding, Laura  Tue. pm P75 Exhibit Hall Theme 1: Source to Sink II

Filho, Osvaldo  Tue. am P47 Exhibit Hall Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson III

Filina, Irina  Mon. am 10:10 Room 214 B/C Theme 4: Global Studies of Extensional and Passive Margins

Fischer, Mark  Tue. am P37 Exhibit Hall 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

Folaramni, 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

Frayino, 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 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data

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, Haileng  
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.  am  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 2: Carbonates: Depositional Models I

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 Ichnology: In Honor of George Pemberton

Girard, Jean-Pierre  
Wed.  am  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
Goteti, Rajesh | Mon. am | P37 | Exhibit Hall | Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson

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. pm | 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, Claire | Tue. am | 10:50 | Room 214 D | Theme 3: Hydrocarbon Migration and Charge Risk Assessment

Guerra, Cleared | 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 Productive Petroleum

Haddad, Mahdi | Mon. pm | 2:00 | Room 213 A/B | Theme 1: Source to Sink II

Haile, Beyene | Tue. pm | P76 | Exhibit Hall | Theme 6: Induced Seismicity and Water Management

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

Hampton, 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 | P67 | 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  Tue.  pm  2:20  Room 217 A  Theme 10: Opportunity Valuation
Hashim, Mohammed  Wed.  am  11:30  Room 214 D  Theme 3: Geochemistry Applications in Petroleum Systems Characterization
Hatte, Nicole  Mon.  am  11:10  Room 217 B/C  Theme 5: Advances in Unconventional Reservoir Characterization
Hazzan, Muhammad  Mon.  pm  P87  Exhibit Hall  Theme 4: Global Perspectives on Extensional Deformation
Hathorn, 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: Integrated Workflows in Petroleum Systems Modeling
Healy, Rachel  Tue.  am  P59  Exhibit Hall  Theme 1: Deep-water Sedimentology
Heear, 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  Theme 3: Integrated Workflows in Petroleum Systems Characterization
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
Henningst, 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
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 Characterization
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.  am  1:25  Hemisfair Ballroom I  Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II
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.  am  P140  Exhibit Hall  Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
Holbrook, John  Tue.  pm  2:00  Hemisfair Ballroom I  Theme 10: Financing
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  P27  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  P23  Exhibit Hall  Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible 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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<td>Huang, Xiaoxia</td>
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<td>Ikeda, Ken</td>
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<td>Inam, Rai Hamood</td>
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<td>Iwuoha, Sochi</td>
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<td>Jarvis, Ian</td>
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<tr>
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<td>Kaempfe, Sebastian</td>
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<td>Kerans, Charles</td>
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**Themes:**

1. Reservoir Quality and Rock Property Trends
2. Carbonate Mixed Systems
3. From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface
4. Special Session on Salt Tectonics in Memory of Martin Jackson
5. Unconventional Plays: Appalachian, Rockies, and Midcontinent
6. Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible Petroleum
7. Carbonates: Fractures and Karst
8. Special Session on Salt Tectonics in Memory of Martin Jackson III
9. Planetary Geology and Energy Frontiers
10. Hydrocarbon Migration and Charge Risk Assessment
11. Special Session on Salt Tectonics in Memory of Martin Jackson II
12. Permian Basin Unconventionals
13. Analytical Techniques for Unconventional Reservoirs
14. Deep-water Systems Architecture: From Controls to Characterization
15. Intermingled: Fluids, Transport, and Sedimentary Architecture
16. SEPM Research Symposium I: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record
17. SEPM Research Symposium II: The Rocks
18. Innovation and Technology in Biostratigraphy for Challenging Times
19. Unconventional Reservoir Technology
20. Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
21. Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis
22. Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data
23. Hydrocarbon Migration and Charge Risk Assessment
24. Hydrocarbon Migration and Charge Risk Assessment
25. Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures
26. Regional and Global Unconventional Reservoirs
27. DEEPS CoE: Deep Unconventional Geosystems
28. Innovations in Deep Unconventional Geosystems
29. Unconventional Reservoir Technology: Challenges and Opportunities
30. SEPM Student Research Poster Session II
31. International Unconventional Plays
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37. New Horizons in Environmental Geosciences
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<td>8:45</td>
<td>Room 217 B/C</td>
<td>Theme 5: Eagle Ford and Austin Chalk Unconventional Plays</td>
</tr>
<tr>
<td>Lovecchio, Juan</td>
<td>Mon  am</td>
<td>P38</td>
<td>Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
</tr>
<tr>
<td>Lowell, James</td>
<td>Mon  am</td>
<td>11:30</td>
<td>Room 217 D</td>
<td>Theme 8: New Applications of Machine Learning to Subsurface Science</td>
</tr>
<tr>
<td>Name</td>
<td>Day</td>
<td>Time</td>
<td>Location</td>
<td>Theme</td>
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<tr>
<td>Lu, Le</td>
<td>Tue.</td>
<td>am</td>
<td>P25 Exhibit Hall</td>
<td>Theme 3: Biomarker Applications in Petroleum Systems Analysis</td>
</tr>
<tr>
<td>Lu, Yan</td>
<td>Tue.</td>
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<td>P105 Exhibit Hall</td>
<td>Theme 8: New Applications of Machine Learning to Subsurface Science</td>
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<td>Lu, Yiran</td>
<td>Wed.</td>
<td>am</td>
<td>P78 Exhibit Hall</td>
<td>SEPM Student Research Poster Session II</td>
</tr>
<tr>
<td>Luchtel Ferguson, Kristie</td>
<td>Wed.</td>
<td>pm</td>
<td>3:10 Hemisfair Ballroom I</td>
<td>Theme 10: Financing</td>
</tr>
<tr>
<td>Lueck, Lillian</td>
<td>Mon.</td>
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<td>P32 Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
</tr>
<tr>
<td>Luedmann, Thomas</td>
<td>Tue.</td>
<td>am</td>
<td>P14 Exhibit Hall</td>
<td>Theme 2: Carbonates: Depositional Models I</td>
</tr>
<tr>
<td>Lund Snee, Jens-Erik</td>
<td>Tue.</td>
<td>pm</td>
<td>P43 Exhibit Hall</td>
<td>Theme 4: Structure and Geomechanics of Unconventional Plays</td>
</tr>
<tr>
<td>Lyu, Fuliang</td>
<td>Tue.</td>
<td>am</td>
<td>P68 Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits</td>
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<tr>
<td>Lyu, Wenya</td>
<td>Tue.</td>
<td>pm</td>
<td>P47 Exhibit Hall</td>
<td>Theme 4: Structure and Geomechanics of Unconventional Plays</td>
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<tr>
<td>Ma, Xingzhi</td>
<td>Mon.</td>
<td>pm</td>
<td>P98 Exhibit Hall</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
</tr>
<tr>
<td>Ma, Xugang</td>
<td>Tue.</td>
<td>pm</td>
<td>P42 Exhibit Hall</td>
<td>Theme 7: Geophysics: Beyond Seismic Methods</td>
</tr>
<tr>
<td>MacEachern, James</td>
<td>Wed.</td>
<td>am</td>
<td>11:30 Room 217 A</td>
<td>Theme 1: Applied Ichnology: In Honor of George Pemberton</td>
</tr>
<tr>
<td>Macellari, Carlos</td>
<td>Mon.</td>
<td>pm</td>
<td>4:05 Hemisfair Ballroom I</td>
<td>Discovery Thinking Forum – “Pioneering Discoveries Driving Prosperity”</td>
</tr>
<tr>
<td>Mahoney, J. Brian</td>
<td>Mon.</td>
<td>pm</td>
<td>P63 Exhibit Hall</td>
<td>Theme 1: Interaction Between Sedimentation and Tectonics II</td>
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<tr>
<td>Makeen Ahmed, Yousif</td>
<td>Mon.</td>
<td>pm</td>
<td>P74 Exhibit Hall</td>
<td>Theme 3: Source Rock Depositional Environments</td>
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<tr>
<td>Malin, Peter</td>
<td>Mon.</td>
<td>pm</td>
<td>3:25 Room 213 A/B</td>
<td>Theme 6: Induced Seismicity and Water Management</td>
</tr>
<tr>
<td>Malloy, Thomas</td>
<td>Tue.</td>
<td>pm</td>
<td>1:40 Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible Petroleum SEPM Student Research Poster Session I</td>
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<td>Manche, Cameron</td>
<td>Mon.</td>
<td>am</td>
<td>P18 Exhibit Hall</td>
<td>Theme 4: Global Studies of Extensional and Passive Margins</td>
</tr>
<tr>
<td>Mann, Paul</td>
<td>Mon.</td>
<td>am</td>
<td>11:10 Room 214 B/C</td>
<td>Theme 10: Deals and Investment Decisions</td>
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<tr>
<td>Manucho, Humberto</td>
<td>Wed.</td>
<td>am</td>
<td>10:10 Hemisfair Ballroom I</td>
<td>Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs</td>
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<tr>
<td>Marcil, Jean-Sebastien</td>
<td>Sun.</td>
<td>pm</td>
<td>2:00 Room 217 D</td>
<td>Theme 2: Carbonates: Depositional Models I Step Changes in Petroleum Geology: Historical Challenges and Technological Breakthroughs</td>
</tr>
<tr>
<td>Markert, Kaleb</td>
<td>Tue.</td>
<td>am</td>
<td>P16 Exhibit Hall</td>
<td>SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible Petroleum Theme 10: Opportunity Valuation</td>
</tr>
<tr>
<td>Markwick, Paul</td>
<td>Sun.</td>
<td>pm</td>
<td>12:40 Room 217 D</td>
<td>Theme 4: Global Perspectives on Extensional Deformation</td>
</tr>
<tr>
<td>Markwick, Paul</td>
<td>Mon.</td>
<td>pm</td>
<td>P83 Exhibit Hall</td>
<td>Theme 4: Global Studies of Extensional and Passive Margins</td>
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<tr>
<td>Marshall, Patricio</td>
<td>Mon.</td>
<td>am</td>
<td>10:50 Room 214 B/C</td>
<td>Theme 8: The Digital Transformation in the Geosciences SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible Petroleum</td>
</tr>
<tr>
<td>Martin, Thomas</td>
<td>Tue.</td>
<td>pm</td>
<td>P34 Exhibit Hall</td>
<td>Theme 4: Compressional Environments: Trap to Basin</td>
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<tr>
<td>Martindale, Rowan</td>
<td>Tue.</td>
<td>pm</td>
<td>1:40 Hemisfair Ballroom I</td>
<td>Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico</td>
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<td>Mastalerz, Maria</td>
<td>Tue.</td>
<td>pm</td>
<td>3:45 Room 217 B/C</td>
<td>Theme 1: Diagenesis and Rock Property Trends in Siliciclastics Theme 5: Analytical Techniques for Unconventional Reservoirs</td>
</tr>
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<td>Mathukutty, Shibu</td>
<td>Tue.</td>
<td>pm</td>
<td>4:05 Room 217 A</td>
<td>Theme 5: International Unconventional Plays</td>
</tr>
<tr>
<td>Matthew, Bode</td>
<td>Mon.</td>
<td>pm</td>
<td>P91 Exhibit Hall</td>
<td>Theme 6: Sustainability and Carbon Theme 10: Opportunity Valuation Theme 2: Carbonate Mixed Systems</td>
</tr>
<tr>
<td>Mattson, Adam</td>
<td>Tue.</td>
<td>am</td>
<td>P33 Exhibit Hall</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson II AAPG Student Research Poster Session I</td>
</tr>
<tr>
<td>McAllen, Matthew</td>
<td>Mon.</td>
<td>am</td>
<td>P14 Exhibit Hall</td>
<td>Theme 1: Interaction Between Sedimentation and Tectonics I</td>
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<tr>
<td>McArthur, Adam</td>
<td>Mon.</td>
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<td>P57 Exhibit Hall</td>
<td>Theme 4: Global Studies of Extensional and Passive Margins</td>
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<tr>
<td>McDermott, Kenneth</td>
<td>Mon.</td>
<td>am</td>
<td>11:30 Room 214 B/C</td>
<td>Theme 4: Global Studies of Extensional and Passive Margins</td>
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<tr>
<td>McDermott, Kenneth</td>
<td>Tue.</td>
<td>am</td>
<td>10:10 Room 214 B/C</td>
<td>Theme 8: The Digital Transformation in the Geosciences</td>
</tr>
<tr>
<td>McDonough, Katie-Joe</td>
<td>Wed.</td>
<td>am</td>
<td>11:00 Room 213 A/B</td>
<td>Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico</td>
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<tr>
<td>McFarlin, Forrest</td>
<td>Mon.</td>
<td>am</td>
<td>P41 Exhibit Hall</td>
<td>Theme 1: Diagenesis and Rock Property Trends in Siliciclastics Theme 5: Analytical Techniques for Unconventional Reservoirs</td>
</tr>
<tr>
<td>McGhee, Claire</td>
<td>Wed.</td>
<td>pm</td>
<td>2:00 Room 214 A</td>
<td>Theme 5: International Unconventional Plays</td>
</tr>
<tr>
<td>McGlynn, Ian</td>
<td>Mon.</td>
<td>pm</td>
<td>P4 Exhibit Hall</td>
<td>Theme 6: Sustainability and Carbon Theme 10: Opportunity Valuation Theme 2: Carbonate Mixed Systems</td>
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<tr>
<td>McNeill, Donald</td>
<td>Wed.</td>
<td>am</td>
<td>P21 Exhibit Hall</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data Theme 1: Applied Ichnology: In Honor of George Pemberton SEPM Student Research Poster Session I</td>
</tr>
<tr>
<td>Medeaugh, William</td>
<td>Tue.</td>
<td>pm</td>
<td>3:45 Room 217 A</td>
<td>Theme 6: Carbon Storage</td>
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<tr>
<td>Medeaugh, William</td>
<td>Tue.</td>
<td>pm</td>
<td>P25 Exhibit Hall</td>
<td>Theme 2: Carbonates: Depositional Models II</td>
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<tr>
<td>Medina, Elena</td>
<td>Mon.</td>
<td>pm</td>
<td>P93 Exhibit Hall</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data Theme 6: Carbon Storage</td>
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<tr>
<td>Presenter</td>
<td>Day</td>
<td>Time</td>
<td>Venue</td>
<td>Topic</td>
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<td>Mertesdorf, Melanie</td>
<td>Wed.</td>
<td>9:05</td>
<td>Room 217 B/C</td>
<td>Theme 5: Eagle Ford and Austin Chalk Unconventional Plays</td>
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<tr>
<td>Meyer, Melissa</td>
<td>Mon.</td>
<td>P7</td>
<td>Exhibit Hall</td>
<td>Theme 5: Analytical Techniques for Unconventional Reservoirs</td>
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<tr>
<td>Milkov, Alexei</td>
<td>Tue.</td>
<td>2:00</td>
<td>Room 217 A</td>
<td>Theme 10: Opportunity Valuation</td>
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<tr>
<td>Milliken, Kitty</td>
<td>Wed.</td>
<td>3:50</td>
<td>Room 214 A</td>
<td>Theme 1: Diagenesis and Rock Property Trends in Siliciclastics</td>
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<tr>
<td>Miltenberger, Keely</td>
<td>Mon.</td>
<td>P19</td>
<td>Exhibit Hall</td>
<td>SEPM Student Research Poster Session I</td>
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<tr>
<td>Mio, Eduardo</td>
<td>Tue.</td>
<td>8:45</td>
<td>Room 214 B/C</td>
<td>Theme 4: Global Perspectives on Extensional Deformation</td>
</tr>
<tr>
<td>Miraj, Muhammad</td>
<td>Mon.</td>
<td>P84</td>
<td>Exhibit Hall</td>
<td>Theme 4: Compressional Environments: Trap to Basin</td>
</tr>
<tr>
<td>Miraj, Muhammed A. F.</td>
<td>Tue.</td>
<td>P56</td>
<td>Exhibit Hall</td>
<td>Theme 4: Modeling of Structural and Geomechanical Processes</td>
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<tr>
<td>Misch, David</td>
<td>Tue.</td>
<td>3:25</td>
<td>Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization II: From Kerogen to Producible Petroleum</td>
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<tr>
<td>Mitchell, William</td>
<td>Tue.</td>
<td>P57</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Sedimentology</td>
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<tr>
<td>Mitten, Andrew</td>
<td>Mon.</td>
<td>P54</td>
<td>Exhibit Hall</td>
<td>Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>Mitten, Andrew</td>
<td>Wed.</td>
<td>P79</td>
<td>Exhibit Hall</td>
<td>SEPM Student Research Poster Session II</td>
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<tr>
<td>Mohapatra, Gopal</td>
<td>Wed.</td>
<td>10:30</td>
<td>Room 213 A/B</td>
<td>Theme 7: Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico</td>
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<tr>
<td>Mohrig, David</td>
<td>Mon.</td>
<td>4:05</td>
<td>Room 217 A</td>
<td>Theme 1: Deep-water Process Stratigraphy</td>
</tr>
<tr>
<td>Moldowan, John</td>
<td>Mon.</td>
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<td>Exhibit Hall</td>
<td>Theme 3: Source Rock Depositional Environments</td>
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<tr>
<td>Moore, Paul</td>
<td>Mon.</td>
<td>8:05</td>
<td>Hemisfair Ballroom I</td>
<td>Theme 2: Characterizing Fracture and Karst Porosity and Permeability</td>
</tr>
<tr>
<td>Morrell, Austin</td>
<td>Tue.</td>
<td>P95</td>
<td>Exhibit Hall</td>
<td>Theme 5: Unconventional Reservoir Technology</td>
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<tr>
<td>Morrice, Susan</td>
<td>Mon.</td>
<td>2:00</td>
<td>Hemisfair Ballroom I</td>
<td>Discovery Thinking Forum – “Pioneering Discoveries Driving Prosperity”</td>
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<tr>
<td>Morris, Alan</td>
<td>Tue.</td>
<td>P80</td>
<td>Exhibit Hall</td>
<td>Theme 6: Induced Seismicity and Water Management</td>
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<tr>
<td>Morris, Emma</td>
<td>Tue.</td>
<td>P72</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits</td>
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<tr>
<td>Morris, Paul</td>
<td>Mon.</td>
<td>10:10</td>
<td>Room 217 A</td>
<td>Theme 1: Deep-water Systems Architecture: From Controls to Characterization</td>
</tr>
<tr>
<td>Mosca, Fausto</td>
<td>Tue.</td>
<td>11:30</td>
<td>Room 214 D</td>
<td>Theme 3: Hydrocarbon Migration and Charge Risk Assessment</td>
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<tr>
<td>Moslow, Thomas</td>
<td>Wed.</td>
<td>P18</td>
<td>Exhibit Hall</td>
<td>Theme 5: International Unconventional Plays</td>
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<tr>
<td>Mount, Van</td>
<td>Mon.</td>
<td>3:45</td>
<td>Room 214 B/C</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
</tr>
<tr>
<td>Mountney, Nigel</td>
<td>Wed.</td>
<td>8:05</td>
<td>Room 217 D</td>
<td>Theme 1: Aeolian System Dynamics: What Have We Learned in the Last 50 Years?</td>
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<tr>
<td>Mullen, Sheridan</td>
<td>Mon.</td>
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<td>Exhibit Hall</td>
<td>Theme 1: Paralic and Shallow Marine Systems II: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<tr>
<td>Mullins, James</td>
<td>Mon.</td>
<td>2:20</td>
<td>Room 214 A</td>
<td>Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis</td>
</tr>
<tr>
<td>Murlidhar, Chandini</td>
<td>Wed.</td>
<td>2:00</td>
<td>Room 214 B/C</td>
<td>Theme 4: Characterizing Brittle Deformation and Its Impact on Reservoirs</td>
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<tr>
<td>Murray, Titus</td>
<td>Wed.</td>
<td>P29</td>
<td>Exhibit Hall</td>
<td>Theme 3: Hydrocarbon Migration and Charge Risk Assessment</td>
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<tr>
<td>Murray, Titus</td>
<td>Wed.</td>
<td>P30</td>
<td>Exhibit Hall</td>
<td>Theme 1: New Advances in Mature Basins</td>
</tr>
<tr>
<td>Nancy, Slatter</td>
<td>Tue.</td>
<td>1:20</td>
<td>Room 213 A/B</td>
<td>The Big Crew Change: Passing the Baton and Challenges Awaiting Mid-Career Geoscientists</td>
</tr>
<tr>
<td>Nash, Susan</td>
<td>Wed.</td>
<td>4:10</td>
<td>Hemisfair Ballroom I</td>
<td>Theme 10: Financing</td>
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<tr>
<td>Navarro, Lilian</td>
<td>Tue.</td>
<td>P63</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Sedimentology</td>
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<td>Nazworth, Caroline</td>
<td>Mon.</td>
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<td>Theme 1: Fluvial and Deltaic Depositional Environments: Reservoir Characterization and Prediction From Multiple Scale Analysis</td>
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<tr>
<td>Neri, Philip</td>
<td>Tue.</td>
<td>8:05</td>
<td>Room 214 A</td>
<td>Theme 8: Multi-Disciplinary Integration for Subsurface Efforts in the Age of Big Data</td>
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<tr>
<td>Nicot, Jean-Philippe</td>
<td>Tue.</td>
<td>P81</td>
<td>Exhibit Hall</td>
<td>Theme 6: Induced Seismicity and Water Management</td>
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<tr>
<td>Nielsen, Eric</td>
<td>Wed.</td>
<td>1:40</td>
<td>Hemisfair Ballroom I</td>
<td>Theme 10: Financing</td>
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<td>Nieto, Michael</td>
<td>Mon.</td>
<td>P93</td>
<td>Exhibit Hall</td>
<td>Theme 5: Permian Basin Unconventionals</td>
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<td>Nikolakou, Maria</td>
<td>Mon.</td>
<td>2:20</td>
<td>Room 214 B/C</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
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<tr>
<td>Ning, Fei</td>
<td>Mon.</td>
<td>4:05</td>
<td>Room 214 D</td>
<td>Theme 2: Linked Systems of the Cretaceous Gulf of Mexico</td>
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<td>Ningthoujam, Jagabir</td>
<td>Tue.</td>
<td>P75</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits</td>
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<td>Day</td>
<td>Time</td>
<td>Location</td>
<td>Title</td>
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<td>Nivlet, Philippe</td>
<td>Mon.</td>
<td>pm</td>
<td>P27 Exhibit Hall</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
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<tr>
<td>Nnorom, Sebastian</td>
<td>Wed.</td>
<td>am</td>
<td>P71 Exhibit Hall</td>
<td>AAPG Student Research Poster Session II</td>
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<tr>
<td>Nolan, Seth</td>
<td>Wed.</td>
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<td>P41 Exhibit Hall</td>
<td>Theme 1: New Advances in Mature Basins</td>
</tr>
<tr>
<td>Nolting, Andrea</td>
<td>Tue.</td>
<td>P75</td>
<td>Hemisfair Ballroom I</td>
<td>Theme 2: Characterizing Fracture and Karst Porosity and Permeability</td>
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<td>Norris, David</td>
<td>Mon.</td>
<td>pm</td>
<td>P20 Exhibit Hall</td>
<td>Theme 3: Geochemistry Applications in Petroleum Systems Characterization</td>
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<td>Novak, Aleksandra</td>
<td>Wed.</td>
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<td>P75 Exhibit Hall</td>
<td>AAPG Student Research Poster Session II</td>
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<tr>
<td>Noweir, Mohamed</td>
<td>Wed.</td>
<td>pm</td>
<td>P75 Exhibit Hall</td>
<td>Theme 9: New Global Exploration and Play Concepts</td>
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<tr>
<td>Noyahr, Christopher</td>
<td>Mon.</td>
<td>pm</td>
<td>P75 Exhibit Hall</td>
<td>Theme 9: New Global Exploration and Play Concepts</td>
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<td>Nso, Peter</td>
<td>Mon.</td>
<td>pm</td>
<td>P75 Exhibit Hall</td>
<td>Theme 4: Special Session on Salt Tectonics in Memory of Martin Jackson I</td>
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<td>Nuttal, Brandon</td>
<td>Wed.</td>
<td>am</td>
<td>P75 Exhibit Hall</td>
<td>Theme 6: Sustainability and Carbon</td>
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<tr>
<td>Nwoko, Jeffrey</td>
<td>Mon.</td>
<td>pm</td>
<td>P75 Exhibit Hall</td>
<td>AAPG Student Research Poster Session I</td>
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<tr>
<td>Obermaier, Michael</td>
<td>Tue.</td>
<td>am</td>
<td>P75 Exhibit Hall</td>
<td>Theme 2: Depositional Models for Carbonate and Evaporite Systems</td>
</tr>
<tr>
<td>O’Brien, Joshua</td>
<td>Tue.</td>
<td>pm</td>
<td>P75 Exhibit Hall</td>
<td>Theme 5: Unconventional Reservoir Characterization I</td>
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<tr>
<td>Okwara, Ikenna</td>
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**Themes:**

1. **Source to Sink**
2. **Permian Basin Unconventionals**
3. **Analytical Techniques for Unconventional Reservoirs**
4. **Unconventional Reservoir Characterization**
5. **Depositional Models for Carbonate and Evaporite Systems**
6. **Carbonates: Permian Basin**
7. **Planetary Geology and Energy Frontiers**
8. **Global Perspectives on Compressional Deformation**
9. **Remote Sensing, Monitoring, Regional Studies, and Gulf of Mexico**
10. **Sustainability and Carbon Performance Prediction**
11. **Integration of Geology and Geophysics**
12. **Unconventional Reservoir Characterization**
13. **Special Session on Salt Tectonics in Memory of Martin Jackson II**
14. **SEPM Research Symposium II: A Look Into the Future of Energy and Sustainability Using the Sedimentary Record**
15. **Sustainability and Carbon**
16. **Unconventional Reservoir Characterization II**
17. **Sustainability and Carbon**
18. **Permeability and Reservoir Performance Prediction**
19. **From Pores to Production: Unraveling Fluid Dynamics on Their Journey to the Surface**
20. **New Applications of Machine Learning to Subsurface Science**
21. **The Digital Transformation in the Geosciences**
22. **Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture**
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Swarbrick, Richard  
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Syta, Oyvind  
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Thompson-Butler, William  
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<td>Exhibit Hall</td>
</tr>
<tr>
<td>Williams, Ryan</td>
<td>Mon.</td>
<td>9:05</td>
<td>Room 213 A/B</td>
<td>Room 213 A/B</td>
</tr>
<tr>
<td>Williams-Stroud, Sherilyn</td>
<td>Wed.</td>
<td>am</td>
<td>Room 214 B/C</td>
<td>Room 214 B/C</td>
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<tr>
<td>Willis, Brian</td>
<td>Mon.</td>
<td>pm</td>
<td>P45</td>
<td>Exhibit Hall</td>
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<tr>
<td>Wilson, Edith</td>
<td>Mon.</td>
<td>am</td>
<td>Room 214 A</td>
<td>Room 214 A</td>
</tr>
<tr>
<td>Wilson, Julie</td>
<td>Tue.</td>
<td>pm</td>
<td>Room 217 A</td>
<td>Room 217 A</td>
</tr>
<tr>
<td>Wilson, Ryan</td>
<td>Mon.</td>
<td>pm</td>
<td>Room 217 B/C</td>
<td>Room 217 B/C</td>
</tr>
<tr>
<td>Wilson, Ryan</td>
<td>Mon.</td>
<td>pm</td>
<td>3:25</td>
<td>Room 217 D</td>
</tr>
<tr>
<td>Winsten, Miriam</td>
<td>Tue.</td>
<td>pm</td>
<td>Room 213 A/B</td>
<td>Room 213 A/B</td>
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<tr>
<td>Winter, Rene</td>
<td>Mon.</td>
<td>pm</td>
<td>P40</td>
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<tr>
<td>Wolanski, Krzysztof</td>
<td>Wed.</td>
<td>am</td>
<td>P36</td>
<td>Exhibit Hall</td>
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<tr>
<td>Wood, Lesli</td>
<td>Tue.</td>
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<td>Room 217 A</td>
<td>Room 217 A</td>
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<tr>
<td>Worden, Richard</td>
<td>Wed.</td>
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<td>Room 214 A</td>
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<tr>
<td>Worden, Richard</td>
<td>Wed.</td>
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<tr>
<td>Worms, Swiad</td>
<td>Mon.</td>
<td>am</td>
<td>P71</td>
<td>Exhibit Hall</td>
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<tr>
<td>Wren, William</td>
<td>Tue.</td>
<td>am</td>
<td>P86</td>
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<tr>
<td>Wright, Shawn</td>
<td>Wed.</td>
<td>pm</td>
<td>Room 217 B/C</td>
<td>Room 217 B/C</td>
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<tr>
<td>Wright, Victor</td>
<td>Tue.</td>
<td>am</td>
<td>Room 217 D</td>
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<tr>
<td>Wroblewski, Anton</td>
<td>Wed.</td>
<td>am</td>
<td>P48</td>
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<tr>
<td>Wu, Tengfei</td>
<td>Mon.</td>
<td>am</td>
<td>P27</td>
<td>Exhibit Hall</td>
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<tr>
<td>Wust, Raphael</td>
<td>Tue.</td>
<td>pm</td>
<td>Room 214 D</td>
<td>Room 214 D</td>
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<tr>
<td>Xiao, Yuchen</td>
<td>Tue.</td>
<td>am</td>
<td>P78</td>
<td>Exhibit Hall</td>
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<tr>
<td>Xu, Shaochuan</td>
<td>Wed.</td>
<td>am</td>
<td>Room 214 B/C</td>
<td>Room 214 B/C</td>
</tr>
<tr>
<td>Xu, Wei</td>
<td>Wed.</td>
<td>1:40</td>
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<tr>
<td>Xu, Weixin</td>
<td>Mon.</td>
<td>pm</td>
<td>P92</td>
<td>Exhibit Hall</td>
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<tr>
<td>Xu, Xiaoyong</td>
<td>Tue.</td>
<td>am</td>
<td>P76</td>
<td>Exhibit Hall</td>
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<tr>
<td>Yan, Na</td>
<td>Mon.</td>
<td>am</td>
<td>P68</td>
<td>Exhibit Hall</td>
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<tr>
<td>Yan, Na</td>
<td>Mon.</td>
<td>am</td>
<td>P69</td>
<td>Exhibit Hall</td>
</tr>
</tbody>
</table>
The integrated event for unconventional resource teams

With record-breaking attendance, more than 300 packed technical presentations, and an incredible industry response at URTeC 2018, there is no doubt that the sixth edition of URTeC was an overwhelming success.

URTeC 2019 in Denver looks to push the boundaries and continue as the premier event focused on the latest science and technology applied to exploration and development of unconventional resources. URTeC unites the disciplines by bringing the entire asset team together under one roof to connect on all things unconventional.

This combination of the world’s leading professional societies has brought both depth and breadth to the technical base of the conference, which has attributed to the URTeC’s collaborative platform and innovation exchange sustaining and propelling our industry’s ongoing success.

This is a truly unique opportunity to see the entire resource team at once and make your sale to every stakeholder. No other event can offer this perfect mix of decision makers and influencers.

In 2018, URTeC sold out two months before the event. Order now before all the opportunities are gone.
<table>
<thead>
<tr>
<th>Name</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Theme</th>
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<tbody>
<tr>
<td>Zhang, Jinyu</td>
<td>Tue. am</td>
<td>9:05</td>
<td>Room 217 A</td>
<td>Theme 1: Source to Sink</td>
</tr>
<tr>
<td>Zhang, Jinyu</td>
<td>Tue. pm</td>
<td>P78</td>
<td>Exhibit Hall</td>
<td>Theme 1: Source to Sink II</td>
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<tr>
<td>Zhang, Li</td>
<td>Mon. pm</td>
<td>P103</td>
<td>Exhibit Hall</td>
<td>Theme 1: Reservoir Quality and Rock Property Trends</td>
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<tr>
<td>Zhang, Li</td>
<td>Tue. pm</td>
<td>P22</td>
<td>Exhibit Hall</td>
<td>Theme 2: Carbonates: Depositional Models II</td>
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<td>Zhang, Pengyun</td>
<td>Wed. pm</td>
<td>1:40</td>
<td>Room 213 A/B</td>
<td>Theme 7: Near the Well and Beyond: Petrophysics, Rock Physics, and Hydraulic Fractures</td>
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<tr>
<td>Zhang, Pengzhi</td>
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<td>Exhibit Hall</td>
<td>Theme 7: Integration of Geology and Geophysics</td>
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<tr>
<td>Zhang, Qiang</td>
<td>Wed. am</td>
<td>P58</td>
<td>Exhibit Hall</td>
<td>Theme 4: Global Perspectives on Compressional Deformation</td>
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<tr>
<td>Zhang, Tongwei</td>
<td>Tue. am</td>
<td>10:30</td>
<td>Room 217 B/C</td>
<td>Theme 5: Permian Basin Unconventionals</td>
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<tr>
<td>Zhang, Xiaoping</td>
<td>Wed. am</td>
<td>P57</td>
<td>Exhibit Hall</td>
<td>Theme 4: Global Perspectives on Compressional Deformation</td>
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<tr>
<td>Zhang, YuanZe</td>
<td>Mon. am</td>
<td>8:45</td>
<td>Room 214 B/C</td>
<td>Theme 4: Global Studies of Extensional and Passive Margins</td>
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<tr>
<td>Zhang, Yuying</td>
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<td>P63</td>
<td>Exhibit Hall</td>
<td>Theme 1: Source to Sink II</td>
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<tr>
<td>Zhang, Zhijie</td>
<td>Tue. am</td>
<td>P74</td>
<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits</td>
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<tr>
<td>Zhang, Zhiyao</td>
<td>Mon. am</td>
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<td>AAPG Student Research Poster Session I</td>
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<tr>
<td>Zhao, Kai</td>
<td>Mon. am</td>
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<td>AAPG Student Research Poster Session I</td>
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<tr>
<td>Zhao, Rui</td>
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<td>4:45</td>
<td>Room 214 A</td>
<td>Theme 7: Paralic and Shallow Marine Systems: Process Variability and Impact on Reservoir Distribution and Architecture</td>
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<td>Zheng, Charlie Y. C.</td>
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<td>SEPM Student Research Poster Session I</td>
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<td>Exhibit Hall</td>
<td>Theme 4: Global Perspectives on Compressional Deformation</td>
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<tr>
<td>Zhong, Zhi</td>
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<td>P100</td>
<td>Exhibit Hall</td>
<td>Theme 6: Carbon Storage</td>
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<tr>
<td>Zhong, Zhi</td>
<td>Mon. pm</td>
<td>P101</td>
<td>Exhibit Hall</td>
<td>Theme 6: Carbon Storage</td>
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<tr>
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<td>Tue. pm</td>
<td>P33</td>
<td>Exhibit Hall</td>
<td>Theme 8: The Digital Transformation in the Geosciences</td>
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<tr>
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<td>Exhibit Hall</td>
<td>Theme 6: Sustainability and Carbon</td>
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<tr>
<td>Zhou, Chuanmin</td>
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<td>Exhibit Hall</td>
<td>Theme 1: Deep-water Systems: Currents and Resulting Fine(r)-grained Deposits</td>
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<tr>
<td>Zhou, Haolin</td>
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<td>P89</td>
<td>Exhibit Hall</td>
<td>Theme 5: Unconventional Reservoir Technology</td>
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<tr>
<td>Zinecker, Marcus</td>
<td>Wed. am</td>
<td>P73</td>
<td>Exhibit Hall</td>
<td>AAPG Student Research Poster Session II</td>
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<tr>
<td>Zoback, Mark</td>
<td>Wed. pm</td>
<td>1:20</td>
<td>Room 217 B/C</td>
<td>Theme 5: Advances in Unconventional Reservoir Characterization III: Predictive Technologies</td>
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<tr>
<td>Zonneveld, John-Paul</td>
<td>Wed. am</td>
<td>9:05</td>
<td>Room 217 A</td>
<td>Theme 1: Applied Ichnology: In Honor of George Pemberton</td>
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<tr>
<td>Zweidler, Daniel</td>
<td>Tue. pm</td>
<td>1:20</td>
<td>Room 217 A</td>
<td>Theme 10: Opportunity Valuation</td>
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Room Assignments and Floor Plans

Room Assignments
Committee Business Meetings
Convention Center Floor Plans
Grand Hyatt San Antonio Floor Plan
All events will be held at the Henry B. Gonzalez Convention Center unless otherwise noted.

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

AAPG – Meetings will be held on the second level of the Grand Hyatt San Antonio unless otherwise noted.

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

<table>
<thead>
<tr>
<th>Event</th>
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<tbody>
<tr>
<td>Visiting Geoscientist SIG</td>
<td>Tuesday</td>
<td>7:30 am–9:00 am</td>
<td>Lone Star Ballroom A</td>
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<tr>
<td>Africa Region - Leadership Meeting</td>
<td>Tuesday</td>
<td>8:00 am–8:30 am</td>
<td>Lone Star Ballroom B</td>
</tr>
<tr>
<td>Africa Region - All Members Meeting</td>
<td>Tuesday</td>
<td>8:30 am–9:30 am</td>
<td>Lone Star Ballroom B</td>
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<tr>
<td>AAPG Field Safety Committee</td>
<td>Tuesday</td>
<td>2:00 pm–4:00 pm</td>
<td>San Jacinto</td>
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<tr>
<td>2019 ACE Wrap-Up Meeting</td>
<td>Tuesday</td>
<td>3:00 pm–4:00 pm</td>
<td>Bowie C</td>
</tr>
<tr>
<td>AAPG China Research Center</td>
<td>Tuesday</td>
<td>4:00 pm–6:00 pm</td>
<td>Bowie A</td>
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<tr>
<td>Latin America and Caribbean Region All-Member Meeting and Reception</td>
<td>Tuesday</td>
<td>5:30 pm–7:00 pm</td>
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<tr>
<td>Petroleum Structure and Geomechanics Division (PSGD)</td>
<td>Tuesday</td>
<td>5:30 pm–9:30 pm</td>
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</tr>
<tr>
<td>Unconventional Research Group</td>
<td>Tuesday</td>
<td>7:00 pm–9:30 pm</td>
<td>Henry B. Gonzalez Convention Center, Room 214 A</td>
</tr>
</tbody>
</table>

### Wednesday

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunrise Yoga</td>
<td>Wednesday</td>
<td>6:30 am–7:30 am</td>
<td>Bowie A</td>
</tr>
<tr>
<td>Global Events Oversight Committee</td>
<td>Wednesday</td>
<td>7:00 am–9:30 am</td>
<td>Lone Star Ballroom A</td>
</tr>
<tr>
<td>AAPG Advisory Council</td>
<td>Wednesday</td>
<td>2:00 pm–6:00 pm</td>
<td>Lone Star Ballroom A</td>
</tr>
</tbody>
</table>

### Thursday

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAPG Advisory Council</td>
<td>Thursday</td>
<td>8:00 am–5:00 pm</td>
<td>Republic A/B, 4th floor</td>
</tr>
</tbody>
</table>

**SEPM Committee Meetings** – Meetings will be held at the San Antonio Marriott Riverwalk unless otherwise noted.

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEPM Council Meeting</td>
<td>Saturday</td>
<td>8:00 am–5:00 pm</td>
<td>Travis</td>
</tr>
<tr>
<td>NAMS Council Meeting</td>
<td>Sunday</td>
<td>3:00 pm–4:00 pm</td>
<td>Crockett</td>
</tr>
<tr>
<td>SEPM Foundation Reception</td>
<td>Tuesday</td>
<td>6:00 pm–7:00 pm</td>
<td>River Terrace Room &amp; Patio</td>
</tr>
<tr>
<td>SEPM President’s Reception</td>
<td>Tuesday</td>
<td>7:00 pm–9:00 pm</td>
<td>Alamo Ballroom Salons D/E/F</td>
</tr>
</tbody>
</table>

**SEPM Research Groups** – Meetings will be held at the San Antonio Marriott Riverwalk unless otherwise noted.

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonate Research Group</td>
<td>Monday</td>
<td>7:00 pm–10:00 pm</td>
<td>Alamo Ballroom Salon C</td>
</tr>
<tr>
<td>Deepwater Research Group</td>
<td>Monday</td>
<td>7:00 pm–10:00 pm</td>
<td>Alamo Ballroom Salon D</td>
</tr>
<tr>
<td>NAMS Marine Micro Research Group</td>
<td>Monday</td>
<td>7:00 pm–10:00 pm</td>
<td>Bowie</td>
</tr>
<tr>
<td>Siliciclastic Diagensis Research Group</td>
<td>Monday</td>
<td>7:00 pm–10:00 pm</td>
<td>Alamo Ballroom Salon A</td>
</tr>
</tbody>
</table>

**Other Meetings** – Meetings will be held at the Grand Hyatt San Antonio unless otherwise noted.

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGI Executive Committee Meeting</td>
<td>Sunday</td>
<td>8:30 am–5:00 pm</td>
<td>Bowie B</td>
</tr>
<tr>
<td>AGI Member Society Council Meeting</td>
<td>Monday</td>
<td>8:00 am–11:30 am</td>
<td>Lone Star Ballroom C</td>
</tr>
<tr>
<td>AGI Leadership Reception</td>
<td>Monday</td>
<td>5:00 pm–7:00 pm</td>
<td>Bowie A</td>
</tr>
</tbody>
</table>
### 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.

Learn more at foundation.aapg.org
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dgs.alaska.gov

The Alaska Division of Geological & Geophysical Surveys (DGGS), Energy Resources section acquires and publishes new, relevant, and unbiased information about the geologic framework of frontier sedimentary basins in Alaska that may host undiscovered oil, gas, and coal resources. This work promotes exploration and production success.

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Colombia
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carlosl.rodriguez@anh.gov.co
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www.awg.org

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United States
Christian Dohse
cchristian.dohse@gmail.com
www.AustinGeoSoc.org

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1. to stimulate interest in and promote advancement of geology;
2. to facilitate discussion and dissemination of geologic information;
3. to encourage social and professional cooperation among geologists and associated scientists;
4. to maintain a high professional standing among the members; and
5. to enhance public understanding of the professional activities of the members.

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jwhite@energy.gov.bb
www.energy.gov.bb

The Ministry of Energy and Water Resources in Barbados is responsible for promoting and facilitating the development of the country’s natural resources. It monitors and regulates all onshore hydrocarbon activity and serves as the Designated Authority for the offshore petroleum sector, which forms a critical component of Barbados’ socio-economic development strategy.
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United States
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jsharples@ikonscience.com  
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Department of Mineral Resources  
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United Kingdom  
Dave McCarthy  
+500 27322  
davmcc@bgs.ac.uk  
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