Pioneer is proud to support the Unconventional Resources Technology Conference

- Multi-Source Data Integration: Eagle Ford Shale Sweet Spot Mapping
  B. Tinlin, H. Bello, M. McChesney

- Using Pad ISIP, DFIT, and ESP Data to Generate a Pore Pressure Model for the Midland Basin
  D. Loughby, D. Epps, J. Forrest

- An Integrated Approach to Stimulated Reservoir Interpretations of the Permian Wolfcamp Shale
  D. R. Collins, G. Monson, W. Chu, A. Quinn

- A Case for Microseismic Surface Arrays in Texas?
  H. Meighan, R. A. Hull, E. Roberts

- Improving Wolfcamp B3 Drilling and Production by Integrating Core, Mud Logs, Electrical Logs, Seismic Inversion, Microseismic and Drilling Data
  H. Ye, L. Waite, R. Meek, R. Bodziak, E. Kelly

- Application of Real-Time Bottom-Hole Pressure to Improve Field Development Strategies in the Midland Basin Wolfcamp Shale
  K. Scott, W. Chu, R. W. Flumerfelt

- Using Geochemical Fingerprinting as a Direct Indicator of Zones Accessed by Induced Fractures in Horizontal Wells in the Wolfcamp and Spraberry Formations of the Midland Basin
  M. M. Laughland, D. K. Baskin

- Eagle Ford Well Spacing: A Methodology to Integrate, Analyze and Visualize Multisource Data in Solving a Complex Value-Focused Problem
  P. Lindner, H. Bello

- High Fidelity Microseismic Data Acquisition in the Midland Basin Wolfcamp Shale Play West Texas, USA
  R. A. Hull, R. Meek, B. Wright, H. Meighan, A. Von der Hoya, J. Lempges

- Well Space Modeling, SRV Prediction Using Microseismic, Seismic Rock Properties and Structural Attributes in the Eagle Ford Shale of South Texas
  R. Meek, B. Sulliman, H. Bello, R. A. Hull

- 3-D Finite Difference Modeling of Microseismic Source Mechanisms in the Wolfcamp Shale of the Permian Basin
  R. Meek, R. A. Hull, A. Von der Hoya, D. Eaton

- Preliminary Geologic and Chemostratigraphic Analysis of the Wolfcamp D Shale, Midland Basin, West Texas
  M. McGuire, P. Baldwin, L. Waite, O. Woodruff, P. Ryan

- Long-Term Evaluation of Carbon Isotopes of C1-C5 Hydrocarbons in Headspace Gas Desorbed From Drill Cuttings Collected in Sealed Jars
  J. Strauss, D. Travers, N. Dolan, N. Rosenau

Join us for networking over cocktails and hors d'oeuvres
Monday, July 20, 6:00pm - 9:30pm • The Vault at Boudro’s, 421 E. Commerce, San Antonio
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Dear Colleague,

On behalf of the Unconventional Resources Technology Conference (URTeC), its sponsoring organizations and Technical Program Committee, we welcome you to the third edition of this collaborative event, which focuses on the science and technology required to address the economic and technical challenges of unconventional resources.

The three largest and most preeminent upstream oil and gas societies – the Society of Petroleum Engineers (SPE), the American Association of Petroleum Geologists (AAPG) and the Society of Exploration Geophysicists (SEG), with help from our friends at the American Society of Mechanical Engineers, Petroleum Division (ASME-PD) – have joined forces again to bring together industry professionals to discuss the most relevant and timely topics for geoscientists, engineers and business professionals in the oil and gas industry.

The Opening Plenary Session frames the business and public policy environment, reviews opportunities and strategies for continued growth in supply and sets the stage for a URTeC technical program that explores in detail how multidisciplinary integration can lead to state-of-the-art breakthroughs, pragmatic prospecting and assessment tools, and optimized development and value creation. Moderated by Mariano Gurfinkel (Hess Corporation), Session panelists include:

- Adam Sieminski, Administrator, U.S. Energy Information Administration
- Luis Giusti, Senior Advisor, Center for Strategic and International Studies
- Tony Vaughn, Executive Vice President, Exploration and Production, Devon Energy Corporation

In the face of uncertain commodity prices and a continuing oversupply of oil on the world market, we asked the upstream operating companies, in collaboration with their service provider partners, to stretch like never before. We specifically asked asset managers to encourage their teams to submit contributions that share knowledge and recommended practices that will allow better management of our unconventional resources in today’s market. Our industry colleagues responded with team presentations that have been scattered throughout the program. In addition, we hope you plan to attend the Post-Conference Operators’ Forum, which addresses Appraisal and Development of Unconventional Reservoirs by presentation and discussion of specific unconventional plays in North America.

Beyond our challenge to the upstream operators, we also listened to last year’s participants in planning URTeC 2015. We have attempted to dismantle the chimneys and fences among disciplines, therefore, wherever possible, sessions are organized by play and/or by petroleum system(s), alternatively by geography and only incidentally by technical specifics. As such, we look forward to guidance and participation regarding the structure of URTeC 2016.

The media has observed that the unconventional genie is out of the bottle and, now with that reality in hand, the challenge may be to bring unconventional development costs at parity with conventional resources whenever and wherever possible. That path forward may be forged at integrated exchanges such as URTeC where the industry shows that “cross-discipline teamwork rules.”

On behalf of the organizing societies and the Technical Program Committee, we are pleased you are here, and we thank you for attending URTeC 2015.

Sincerely,
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Tom Blasingame, Texas A&M University
Skip Rhodes, Pioneer Natural Resources
Gene Sparkman, Lumina Technologies Inc.
Technical Program Committee

Tom Blasingame
Texas A&M University

Skip Rhodes
Pioneer Natural Resources

Gene Sparkman
Lumina Technologies Inc.

Technical Program Co-Chairs

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David Craig ............................................................Reservoir Development Corporation
John Curtis ..............................................................Colorado School of Mines
Deepak Devegowda ...................................................University of Oklahoma
Volker Dieckman ........................................................Shell Exploration & Production Company
George Dozier .........................................................Marathon Oil
Brian Driskill ............................................................Shell Exploration & Production Company
Terry Engleender .....................................................Penn State University
Joe Frantz .................................................................Range Resources
Rick Fritz .....................................................................SM Energy
Josh Froelich .............................................................Southwestern Energy Co.
Rob Fulks .....................................................................Weatherford
Gretchen Gillis .............................................................Aramco Services Company
Timothy Graves ..........................................................ASME
Jennifer Gujral .............................................................Shell Exploration & Production Company
Mariano Gurﬁnkel ............................................................Hess Corporation
Matt Honapour .............................................................BHP Billiton Petroleum
Robert Hull .................................................................Pioneer Natural Resources
David Hume ..............................................................Shaw
Dilhan Ilk ......................................................................DelGolyer and MacNaughton
Creties Jenkins ...........................................................Rose and Associates
Raymond Johnson .......................................................Unconventional Reservoir Solutions
Thomas Juraneck .......................................................ExxonMobil Production Co.
M. Hosein Kalsei ...........................................................ConocoPhillips
Michael Kendrick .......................................................Devon Energy Corporation
George Koperna ........................................................Advanced Resources International Inc.
Paul Lillis .................................................................USGS
Shawn Maxwell ..........................................................IMaGE
Tom McCoy ...............................................................Cimarex Energy Co.
Stacy Newman ..........................................................ARC Pressure Data Inc.
Kris Nygaard ...............................................................ExxonMobil Production Co.
John O’Brien .............................................................Anadarko Petroleum Corporation
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A ticket is required for admission. Tickets are limited. Check Registration for availability.
URTeC at a Glance

3:45 p.m.–5:10 p.m. Interactive Panel: Sweet Spotting — Isn’t This Our Goal?
5:00 p.m.–6:00 p.m. Networking Reception in the Exhibition Hall

WEDNESDAY
6:00 a.m.–4:30 p.m. Luggage Check
7:00 a.m.–8:15 a.m. Topical Breakfast: Shale Plays: How Technology, Governments, Regulators, Academia and the Public Have Changed the World’s Energy Supply and Demand Equation (Joseph H. Frantz, Jr.)
7:00 a.m.–8:15 a.m. Topical Breakfast: Learnings and Lessons From Shale Exploration in a Tectonized Foreland Basin: Controls on Sweet Spot Development in the Duvernay Shale (Matthew Davis)
7:00 a.m.–1:00 p.m. Registration
7:30 a.m.–4:30 p.m. Speakers Service Center
8:00 a.m.–1:00 p.m. Exhibition
8:25 a.m.–12:05 p.m. Oral Presentations
9:00 a.m.–12:00 p.m. ePapers On Demand
9:30 a.m.–11:35 p.m. ePaper Presentations
10:10 a.m.–10:50 a.m. Refreshment Break in the Exhibition Hall
1:45 p.m.–3:10 p.m. Interactive Panel: Operations and Production Challenges — Planning for Long-Term Production
1:45 p.m.–3:55 p.m. Oral Presentations

THURSDAY
7:30 a.m. Post-Conference Field Trip 4: Paleozoic Stratigraphy and Reservoirs, Permian Basin – Guadalupe, Hueco, and Franklin Mountains, West Texas and New Mexico (Thursday–Sunday)
8:00 a.m.–5:00 p.m. Post-Conference Operators’ Forum: Appraisal and Development of Unconventional Reservoirs (Grand Hyatt)

A ticket is required for admission.
Tickets are limited. Check Registration for availability.
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<th>DAY</th>
<th>SESSION</th>
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<tr>
<td></td>
<td>Opening Plenary Session</td>
<td>8:30 a.m.–10:00 a.m.</td>
<td>Oral</td>
<td>Lila Cockrell Theatre</td>
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<td></td>
<td>Applied Analytics and Case History of Modeling</td>
<td>10:20 a.m.–10:45 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
</tr>
<tr>
<td>Monday Morning</td>
<td>Architectural Analysis of Unconventionals: A Material Science Approach</td>
<td>10:45 a.m.–11:10 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
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<tr>
<td></td>
<td>Microseismic and Reservoir Volumes</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<tr>
<td></td>
<td>Optimized Well Placement</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
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<td></td>
<td>Scaling the Midstream for Unconventionals</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<td></td>
<td>Stakeholder Engagement and Social Responsibility</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<td></td>
<td>Studies in Storage and Transport at the Nano-Pore Level</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<td>The Montney in Development Mode</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Ballroom B</td>
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<td></td>
<td>The Niobrara in Development Mode</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Ballroom A</td>
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<td></td>
<td>Measure Twice and Stimulate Once: The Mantra of Optimized Completions</td>
<td>11:10 a.m.–11:35 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station C</td>
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<td></td>
<td>Geomechanics of Hydraulic Fracturing: A Place Where Geology Meets Engineering</td>
<td>1:45 p.m.–3:05 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<tr>
<td>Monday Afternoon</td>
<td>Eagle Ford: The Journey Continues I</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Ballroom B</td>
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<td></td>
<td>Emerging Plays I: Which Ones Will Make the Cut?</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<td></td>
<td>Fracture Detection and Evaluation: A Cross-Discipline Challenge</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
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<td></td>
<td>Microseismic: The Quest for Added Value</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<td></td>
<td>New Developments in the Permian Basin</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Ballroom A</td>
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<td></td>
<td>Progress Update for the Vaca Muerta</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<td></td>
<td>Forecasting Production in Unconventional Reservoirs</td>
<td>1:50 p.m.–2:40 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
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<tr>
<td></td>
<td>Enabling and Applied Technologies</td>
<td>1:50 p.m.–3:55 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
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<td></td>
<td>Production and Recovery Mechanisms</td>
<td>2:40 p.m.–3:05 p.m.</td>
<td>ePaper</td>
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<td>Surface and Midstream</td>
<td>3:05 p.m.–3:55 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
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<td>Interactive Panel: Opportunities and Challenges of Liquid Recovery From Tight Rock</td>
<td>3:45 p.m.–5:10 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<tr>
<td></td>
<td>Social Responsibility, Water Management and Groundwater Protection</td>
<td>3:55 p.m.–4:45 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
</tr>
<tr>
<td>Tuesday Morning</td>
<td>Executive Plenary Session</td>
<td>8:30 a.m.–10:00 a.m.</td>
<td>Oral</td>
<td>Lila Cockrell Theatre</td>
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<td></td>
<td>Evaluating and Modeling Kerogen and Petroleum Fluids I</td>
<td>10:20 a.m.–11:35 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
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<tr>
<td></td>
<td>Imaging Dynamic Processes at the Pore Scale</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Ballroom A</td>
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<td></td>
<td>Integrated Completion Design: Challenging the Status Quo</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
</tr>
<tr>
<td></td>
<td>Management of Groundwater Protection &amp; Legacy Wells</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<tr>
<td></td>
<td>Modeling Well Spacing and Multiscale Transport</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<tr>
<td></td>
<td>Multidisciplinary Integration: Some Surprising Outcomes</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<td></td>
<td>Natural Fractures and Your Completion Design</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<tr>
<td></td>
<td>Western U.S. Case Studies: More Upside in the Rockies!</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<td></td>
<td>Phase Behavior and Reservoir Production Modeling</td>
<td>11:10 a.m.–11:35 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
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<tr>
<td></td>
<td>Well Testing and Production Optimization</td>
<td>11:35 a.m.–12:00 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station C</td>
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<tr>
<td>Tuesday</td>
<td>Characterization of Facies Through Rock Physics: Petrophysics and Seismic Data</td>
<td>1:45 p.m.–3:05 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<td></td>
<td>Completion and Stimulation Practices: What To Do With All That Horsepower</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Ballroom A</td>
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<tr>
<td></td>
<td>Forecasting Production in Unconventional Reservoirs: Getting the Real EUR to the Podium</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<td></td>
<td>Reservoir Characterization and Mapping the Ethereal Sweetspot</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Ballroom B</td>
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<td></td>
<td>Reservoir Production Modeling: The Enigmas From Nano-Flow Behavior to EUR</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<td></td>
<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<tr>
<td></td>
<td>The Bakken Reloaded</td>
<td>1:45 p.m.–5:25 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
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<tr>
<td></td>
<td>China Case Studies</td>
<td>1:50 p.m.–3:30 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
</tr>
<tr>
<td></td>
<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
<td>1:50 p.m.–3:55 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
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<td></td>
<td>Microseismic I: Does It Really Add Value?</td>
<td>1:50 p.m.–4:45 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station C</td>
</tr>
<tr>
<td></td>
<td>Eagle Ford: The Journey Continues</td>
<td>3:30 p.m.–4:20 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
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<tr>
<td></td>
<td>Interactive Panel: Sweet Spotting – Isn’t This Our Goal?</td>
<td>3:45 p.m.–5:10 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<tr>
<td></td>
<td>Evaluating and Modeling Kerogen and Petroleum Fluids II</td>
<td>3:55 p.m.–4:20 p.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Advances in Well Testing and Flow Analysis</td>
<td>8:25 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
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<td></td>
<td>Applied Analytics: Life With Too Many Variables</td>
<td>8:25 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<tr>
<td></td>
<td>Eagle Ford: The Journey Continues II</td>
<td>8:25 a.m.–12:05 p.m.</td>
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<td>Ballroom A</td>
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<tr>
<td></td>
<td>Evaluating and Modeling Kerogen and Petroleum Fluids</td>
<td>8:25 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Ballroom B</td>
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<tr>
<td></td>
<td>Rock Physics and Multiphase Flow</td>
<td>8:25 a.m.–12:00 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<td></td>
<td>Stimulation Case Studies: What Works and What Doesn’t?</td>
<td>8:25 a.m.–10:10 a.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<td></td>
<td>Production and Recovery Mechanisms: Can These Be Optimized?</td>
<td>8:25 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<td></td>
<td>Microseismic II: Does It Really Add Value?</td>
<td>9:30 a.m.–9:55 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station A</td>
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<tr>
<td></td>
<td>Modeling Flow in Complex Systems</td>
<td>9:30 a.m.–11:35 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station B</td>
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<tr>
<td></td>
<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
<td>10:20 a.m.–10:45 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station C</td>
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<tr>
<td></td>
<td>The Bakken Reloaded</td>
<td>10:45 a.m.–11:10 a.m.</td>
<td>ePaper</td>
<td>Exhibition Hall, Station C</td>
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<tr>
<td></td>
<td>Restimulation Practices and Results</td>
<td>10:45 a.m.–12:05 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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<tr>
<td>Wednesday</td>
<td>Alchemy or Science? Chemostratigraphy for Depositional Environments and Facies</td>
<td>1:45 p.m.–3:30 p.m.</td>
<td>Oral</td>
<td>Room 006</td>
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<td></td>
<td>Calling Home From the Subsurface: Applications of Fiber Optics</td>
<td>1:45 p.m.–3:30 p.m.</td>
<td>Oral</td>
<td>Room 001</td>
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<td></td>
<td>Emerging Plays II: Which Ones Will Make The Cut?</td>
<td>1:45 p.m.–3:55 p.m.</td>
<td>Oral</td>
<td>Room 103</td>
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<td></td>
<td>Interactive Panel: Operations and Production Challenges – Planning for Long-term Production</td>
<td>1:45 p.m.–3:10 p.m.</td>
<td>Oral</td>
<td>Room 008</td>
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<td></td>
<td>Production Optimization From Stimulation to Soaking: What Works?</td>
<td>1:45 p.m.–3:55 p.m.</td>
<td>Oral</td>
<td>Ballroom A</td>
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<td></td>
<td>Using Performance to Define Completion and Stimulation Strategies</td>
<td>1:45 p.m.–3:55 p.m.</td>
<td>Oral</td>
<td>Room 007</td>
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</tbody>
</table>
Monday Technical Program

### Opening Plenary Session

**Location:** Lila Cockrell Theatre  
**Time:** 8:30 a.m.–10:00 a.m.  
**Moderator:** Mariano Gurfinkel, Hess Corporation

What is the future of continued development of unconventional resources in the current price and competitive environment? Our panel of experts will reveal their short and long term views of unconventional resource appraisal and development and their impact on domestic and global supply. Speakers will share how the actors are strategically positioned for success in this unsettled environment.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Introductory Remarks</td>
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<tr>
<td>8:35</td>
<td>Adam Sieminski, Administrator, U.S. Energy Information Administration</td>
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<tr>
<td>8:50</td>
<td>Luis Giusti, Senior Advisor, Center for Strategic and International Studies</td>
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<tr>
<td>9:20</td>
<td>Tony Vaughn, Executive Vice President, Exploration and Production, Devon Energy Corporation</td>
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<td>9:40</td>
<td>Audience Q &amp; A</td>
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### Monday Morning Oral Sessions

#### The Niobrara in Development Mode

**Ballroom A**

**Co-Chairs:** H. LaReau, S. Sonnenberg and D. Yaw

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Introductory Remarks</td>
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<tr>
<td>10:50</td>
<td>The Impact of Multiple, Thin Bentonites on Proppant Placement and Effective Fracture Continuity Within the Niobrara Formation, Weld County, Colorado: M. D. Sonnenfeld¹, C. Ohlson¹, C. Zahm², M. Odegard¹ (1. Whiting Petroleum Corp.; 2. Bureau of Economic Geology)</td>
</tr>
</tbody>
</table>

#### The Montney in Development Mode

**Ballroom B**

**Co-Chairs:** D. Hume and J. Thompson

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Introductory Remarks</td>
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<tr>
<td>11:15</td>
<td>Fracture Characterization of the Montney Formation Using Amplitude Inversion of Converted Wave Seismic: T. L. MacFarlane¹, T. Davis² (1. Anadarko; 2. Colorado School of Mines)</td>
</tr>
<tr>
<td>11:40</td>
<td>Optimizing Completions Within the Montney Resource Play: M. Seifert, M. Lenko, J. Lee (Canadian Discovery Ltd.)</td>
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</table>

#### Microseismic and Reservoir Volumes

**Room 103**

**Co-Chairs:** C. Cipolla and R. Hull

<table>
<thead>
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<th>Time</th>
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<tr>
<td>10:45</td>
<td>Introductory Remarks</td>
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<tr>
<td>11:40</td>
<td>Predicting Frac Performance and Active Producing Volumes Using Microseismic Data: C. J. Sicking, J. Vermilye, A. Lacazette (Global Geophysical Services)</td>
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</tbody>
</table>

#### Stakeholder Engagement and Social Responsibility

**Room 001**

**Co-Chairs:** T. Juranek and K. Nygaard

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>Introductory Remarks</td>
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<tr>
<td>11:15</td>
<td>Development of the First Internationally Accepted Standard for Geologic Storage of Carbon Dioxide Utilizing Enhanced Oil Recovery (EOR) Under the International Standards Organization (ISO) Technical Committee TC-265: S. M. Carpenter, G. J. Koperna (Advanced Resources International)</td>
</tr>
<tr>
<td>11:40</td>
<td>A Critical Evaluation of Simple Predictive Models Relating Fluid Injection to Induced Seismicity From Shale Hydraulic Fracturing and Wastewater Injection: S. Raziperechikolae, S. Mishra* ( Battelle Memorial Institute)</td>
</tr>
</tbody>
</table>

*Denotes presenter other than first author
Monday Technical Program

Optimized Well Placement
Room 006
Co-Chairs: N. Brown, A. Nall and K. Stephenson
10:45 Introductory Remarks
11:15 Enhanced Wellbore Placement Accuracy Using Geomagnetic In-Field Referencing and Multi-Station Correction: S. Maus1, M. Herzl1, S. DeVere2 (1. Magnetic Variation Services; 2. Surcon)
11:40 Elemental Analysis as a Tool in Determining Wellbore Stability Issues: C. C. Moyer1, M. Wright1, N. Martinez2 (1. Range Resources Corporation; 2. Chemostrat)

Studies in Storage and Transport at the Nano-Pore Level
Room 007
Co-Chairs: S. Rhodes and D. Valleau
10:45 Introductory Remarks
10:50 Complex Electrical Conductivity of Mudrocks and Source-Rock Formations Containing Disseminated Pyrite: S. Misra1, C. Torres-Verdin1, J. Rasmus2, D. Homan2 (1. The University of Texas at Austin; 2. Schlumberger)
11:15 Molecular Dynamics Simulation on Modeling Shale Gas Transport and Storage Mechanisms in Complex Nano-Pore Structure in Organic Matters: G. Qin, S. He (University of Houston)
11:40 Slip-Flow in Shale as Determined by Pore-Scale Lattice Boltzmann Modeling: C. J. Landry, M. Prodanovic, P. Eichhubl (University of Texas at Austin)

Scaling the Midstream for Unconventionals
Room 008
Co-Chairs: W. Doop and E. Storsteen
10:45 Introductory Remarks
10:50 What Does U.S. LNG Export Mean for Future Shale Gas Development: How Many Shale Gas Wells are Needed to Fuel a LNG Train?: J. Baihly, R. Clayton, G. Lindsay (Schlumberger)
11:15 Well Pad Production Storage Management: D. Smart (Emerson Process Management)
11:40 Accelerated Dynamic Modeling for Complex Networks: C. Chidiac, B. Sauve, K. Pitts, V. Halabe (Schlumberger)

Monday Morning ePapers

Applied Analytics and Case History of Modeling
Exhibition Hall, Station A
Co-Chairs: M. Gurfeinkel and R. Johnson
10:20 History Matching and Predicting Gas/Water Production From CBM: A. M. Farid Ibrahim, H. Nasr-El-Din (Texas A&M University)

Architectural Analysis of Unconventionals:
A Material Science Approach
Exhibition Hall, Station B
Co-Chairs: M. Almasoudi, M. Kendrick and H. Xiong
10:45 Pyrolysis, Porosity and Productivity in Unconventional Mudstone Reservoirs: ‘Free’ and ‘Adsorbed’ Oil: M. Raji1, D. R. Gröcke1, C. Greenwell1, C. Cornford2 (1. Durham University; 2. IGI Ltd.)

Measure Twice and Stimulate Once: The Mantra of Optimized Completions
Exhibition Hall, Station C
Co-Chairs: A. Lamb, R. Pharis and J. Rich
11:10 Using Multi-Modal, Acid-Soluble Cement to Maximize Reservoir Contact in Cemented Laterals: M. Hudson, H. Lee (Schlumberger)

*Denotes presenter other than first author

Please watch for team presentations which are given additional time to display integrated approaches to unconventional plays. Each team consists of no more than three members with different technical backgrounds (geosciences, petrophysics, engineering, operations, etc.).

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Monday Afternoon Oral Sessions

Extracting Value From Multiscale Imaging of Unconventional Reservoirs — Identifying Optimization Candidates From Producing Assets

**Location:** Room 204 A/B

**David Olson, Director of Reservoir Solutions, FEI-Lithicon**

You visit the doctor for one of two reasons: If you have an ailment, you seek treatment to feel better. Alternatively, you may request a physical to determine your general state of health. Oil and gas production systems (well + completion + reservoir) can also be thought of this way. They are complex systems that are designed to function at a certain capacity, but can easily develop a variety of problems that diminish their performance. The “health” of a total production system should be managed in very much the same way as that of a human being. However, this is rarely practiced. Often, treatments (workovers) are prescribed when the source problem has not even been diagnosed, or conversely, performance issues go completely unnoticed. This is similar to walking into a doctor’s office and saying “Just skip the diagnosis and cure me!”

This presentation discusses best practices for managing oil and gas producing assets, particularly in low price, low profit margin environments, where maximizing productivity is critical. Questions addressed in this talk:

- How can you diagnose the general “health” of your production system?
- How can you effectively triage performance issues in a large producing asset?
- What measurements are we NOT making and what data are we NOT collecting as an industry that we should be?
- How can we prescribe more targeted and effective treatments to optimize production at the well and field level?
- How can we plan better completions in the future?

**Technology Innovation for Unconventionals — What Now?**

**Location:** Room 214 C/D

**Claudia J. Hackbarth, Manager, Unconventional Gas & Tight Oil R&D Shell International E&P Inc.**

The ever-changing landscape of the energy world presents numerous challenges but fortunately also opportunities to address them. To be viable and sustainable in the future, these challenges will have to be met in the near term — in many cases by new and improved science and technology. However, in a cyclical industry, technological innovations that cost more may not be practical during the lower parts of the cycle.

Unconventional gas and tight oil present their own significant cost challenges. The opportunities for industry may lie where high grading of producible areas can be combined with cost reductions including using fewer wells, with reduced footprints, and improved or more efficient well engineering and completion techniques. Better understanding of the fundamentals of the reservoirs is needed. Effective learning from field experience will be helped by new workflows to guide the geosciences and engineering technology path forward.

**Extracting Value From Multiscale Imaging of Unconventional Reservoirs**

**Location:** Room 204

**Terri Olson, Technical Lead, Unconventional, FEI-Lithicon**

Imaging technologies have developed rapidly and now allow acquisition of very detailed rock structure information at scales ranging from nanometers to millimeters. Key techniques include scanning electron microscopy, x-ray tomography (CT) and mineralogy mapping. Integration of information acquired at several scales requires exact registration of 3-D to 3-D images and 2-D to 3-D images. This information coupled with wettability imaging at the pore scale and the ability to re-image pore spaces after exposure to various fluids and during flooding experiments adds to our understanding of recovery processes and controls. This talk will present an overview of such techniques, with examples of applications to unconventional reservoirs. Approaches for upscaling nanopore information to core plug scale will be addressed.

**Monday Afternoon Oral Sessions**

**New Developments in the Permian Basin**

**Ballroom A**

**Co-Chairs:** M. Kendrick, K. Kirkham and R. Roadifer

1:45 **Introductory Remarks**

1:50 **Pay Distribution and Basin Architecture of the Wolfcamp Shale in the Delaware Basin:** K. Schwartz, G. Hennenfent, C. Harris, M. Hoffnagle, D. Bain (Chevron)

2:15 **Explanation Through Early Appraisal of the Horizontal Wolfcamp Play in the Ozona Area, Southern Midland Basin:** E. Staples, J. Sandarupi, P. Perfetta, J. Adams* (ConocoPhillips)

2:40 **Using Pad ISIP, DFIT and ESP Data to Generate a Pore Pressure Model for the Midland Basin:** D. Loughry, D. Epps, J. Forrest (Pioneer Natural Resources)

3:05 **Refreshment Break**

3:45 **An Integrated Approach to Stimulated Reservoir Interpretations of the Permian Wolfcamp Shale:** D. R. Collins, G. Monson, W. Chu, A. Quinn (Pioneer Natural Resources)

4:10 **Cemented-Back Monobore Reduces Well Cost and Fracturing Time in the Wolfcamp:** D. Snyder¹, O. Elizondo², A. Ibara³, M. Anderson⁴ (1. Packers Plus Energy Services; 2. HighMount E&P/EnerVest; 3. NSI Technologies)

4:35 **Three Years of Water Treatment in the Permian Basin: ConocoPhillips’s Case History:** A. Shields, R. Sharma, K. Mclin, L. Sloan (ConocoPhillips)

**Room 204**

**Technology Innovation for Unconventionals — What Now?**

**Location:** Room 214 C/D

**Claudia J. Hackbarth, Manager, Unconventional Gas & Tight Oil R&D Shell International E&P Inc.**

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A ticket is required for Topical Luncheons admission. Tickets are limited. Check Registration for availability.

Please watch for team presentations which are given additional time to display integrated approaches to unconventional plays. Each team consists of no more than three members with different technical backgrounds (geosciences, petrophysics, engineering, operations, etc.).
**Eagle Ford: The Journey Continues I**

**Ballroom B**

**Co-Chairs:** D. Devegowda, H. Meier and R. Walker

1:45 **Introductory Remarks**

1:50 **Regional Eagle Ford Modeling: Integrating Facies, Rock Properties and Stratigraphy to Understand Geologic and Reservoir Characteristics:** D. Hull, P. Chapman, D. Miller, D. Ingraham, N. Fritz, N. Kernan (Devon Energy)

2:15 **Making Outcrops Relevant to the Subsurface: Learnings From the Eagle Ford Outcrops of West Texas:** A. D. Donovan1, S. Staerker1, R. Gardner1, M. C. Pope1, M. Wehner1 (1. BP; 2. TAMU)

2:40 **Old Geology/New Technology in the Upper Cretaceous Oimos Formation AWP Field McMullen County, Texas:** S. Scholz1, B. Moriarty1 (1. Swift Energy; 2. Lumina Geophysical)

3:05 **Refreshment Break**

3:45 **Multidisciplinary Data Integration Enhances Cement Job Design for Effective Hydraulic Zonal Isolation:** C. Leong, A. Bhatia, G. DeBrijnuij (Schlumberger)

4:10 **Geoscience Applications to Economic Development of a Relatively Shallow, Low Gravity, Structurally Complex Eagle Ford Oil Development, Atascosa County, Texas:** L. Billingsley, B. Layton, L. Finger (Abraxas Petroleum Corporation)

4:35 **Eagle Ford Horizontal Drilling Optimization in Karnes and DeWitt Counties:** K. Patton1, L. Walker1 (1. Halliburton; 2. BHP Billiton)

5:00 **New Findings in Expected Ultimate Field Recoveries: Implications of Staggered Lateral Downs-spacing in the Eagle Ford Shale:** P. Grossi, D. Neumann, F. Lalehrokh (Talisman Energy USA)

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**Microseismic: The Quest for Added Value**

**Room 103**

**Co-Chairs:** S. Maxwell, J. O’Brien and G. Sparkman

1:45 **Introductory Remarks**

1:50 **High Fidelity Microseismic Data Acquisition in the Midland Basin Wolfcamp Shale Play West Texas, USA:** R. A. Hull, R. Meek, B. Wright, H. Meighan, A. Von der Hoy, J. Lempges (Pioneer Natural Resources)

2:15 **Characterizing the Dynamic Growth of a Fracture Network:** T. Urbancic1, J. W. Crowley1, A. M. Baig1, E. Von Lunen1 (1. The Engineering Seismology Group; 2. Nexen Inc.)

2:40 **Differentiating Wet and Dry Microseismic Events Induced During Hydraulic Fracturing:** S. Maxwell, D. Chorney, M. Grob (IMaGE)

3:05 **Refreshment Break**

3:45 **A Case for Microseismic Surface Arrays in Texas?:** H. Meighan, R. A. Hull, E. Roberts (Pioneer Natural Resources)

4:10 **Estimating Stimulation-Zone Anisotropy Effects During Microseismic Monitoring:** M. Karrenbach, S. Cole, V. Yartsev (SR2020)

4:35 **Virginia City Cole Surface/Bore-Hole Microseismic Monitor Program:** J. Teff, D. Langton, T. Womack, B. Greenlees, J. Borell, E. Menendez, P. Dial, B. Elliott (Devon Energy)

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**Progress Update for the Vaca Muerta**

**Room 001**

**Co-Chairs:** B. Barkhouse and M. Gurinkel

1:45 **Introductory Remarks**


2:15 **Unconventional Shale Pore System Characterization in El Trapial Area, Vaca Muerta, Argentina:** L. C. Crousse1, S. A. Cuervo1, L. E. Mosse2, T. Fischer3, D. McCarty2 (1. Chevron Argentina; 2. Schlumberger; 3. Chevron Energy Technology Company)


3:05 **Refreshment Break**

3:45 **Quantitative and Comparative Mineralogical Analysis From Cores, Cuttings and Logs in Vaca Muerta Shale Play:** L. E. Mosse2, L. Rodriguez2, E. R. Chiapello1, M. J. Sanchez2, L. Lambert2, J. Leduc2 (1. Total Austral; 2. Schlumberger; 3. Total)

4:10 **Shorten the Learning Curve Through Technological Innovation: A Case Study of the Fuling Shale Gas Discovery in Sichuan Basin, Southwest China:** Z. Jin1, M. Lu1, Z. Hu1, B. Gao1, H. Nie1, J. Zhao2 (1. Petroleum Exploration and Production Research Institute of SINOPEC; 2. China University of Petroleum)

4:35 **Sweet Spots in Vaca Muerta: Integration of Subsurface and Production Data in Loma Campana Shale Development, Argentina:** E. Lovrincevic1, F. Vittore1, D. Licitra1*, D. Leduc2, M. J. Sanchez2, L. Lambert3, J. Leduc3 (1. Total Austral; 2. Schlumberger; 3. Total)

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**Fracture Detection and Evaluation: A Cross-Discipline Challenge**

**Room 006**

**Co-Chairs:** U. Ahmed and M. Sharma

1:45 **Introductory Remarks**

1:50 **Analyzing “Beef” Fractures: Genesis and Relationship With Organic-Rich Shale Facies:** M. Al Duhailan1, S. Sonnenberg1, M. Longman2 (1. Colorado School of Mines; 2. GEP Energy Company)

2:15 **Multidisciplinary Data Integration for Inverse Hydraulic Fracturing Analysis: A Case Study:** A. Dahi Taleghani1, P. Puyang1, J. LeCalvez2 (1. Louisiana State University; 2. Schlumberger)

2:40 **High Resolution Diffraction Imaging of Small Scale Fractures in Shale and Carbonate Reservoirs:** A. M. Popovici1, I. Studzu1, T. J. Moser2 (1. Z-Terra Inc.; 2. Moser Geophysical Services)

3:05 **Refreshment Break**

3:45 **Characterization of Fracture Length and Conductivity from Tracer Test and Production Data with Ensemble Kalman Filter:** S. Hakim Elahi, B. Jafarpour (University of Southern California)

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Monday Technical Program

Emerging Plays I: Which Ones Will Make the Cut?

Room 007

Co-Chairs: D. Bassett, R. Fritz and S. Sonnenberg

1:45 Introductory Remarks


3:05 Refreshment Break


4:10 The Marble Falls Fractured Resource Play: Unconventional Technology Turns an Old Trend Into the Next Big Play: U. Hargrove1, C. Adams1, B. D. Berend1, M. Grace2, M. Mullen3 (1. Newark E&P Operating, LLC; 2. Independent Consultant; 3. Stimulation Petrophysics Consulting)


Geomechanics of Hydraulic Fracturing: A Place Where Geology Meets Engineering

Room 008

Co-Chairs: G. Han and B. Poe

1:45 Introductory Remarks

1:50 Uses and Abuses of the Brittleness Index With Application to Hydraulic Stimulation: J. V. Herwanger, S. D. Mildren (Ikon Science)


Monday Afternoon Interactive Panel

Opportunities and Challenges of Liquid Recovery From Tight Rock

Time: 3:45 p.m.-5:10 p.m.
Location: Room 008
Fee: Included with registration

Moderator: Chris Clarkson, Professor and Encana-AITF Chair in Unconventional Gas and Light, University of Calgary

As the industry has transitioned from exploitation of shale gas to liquids-rich tight rock systems, new challenges have arisen. For example, production success in the Bakken and Eagle Ford plays has been impressive, but recovery efficiency from liquid-rich tight rock is commonly less than 10 percent. Production enhancement has been evolutionary, but recovery enhancement has lagged and there are few obvious game changers. Current efforts in recovery enhancement emphasize the fundamental reservoir characterization along with rockfluid and fluid-fluid interactions, critical condensate and gas saturation and wettability. This panel of industry experts and practitioners will discuss current challenges and explore opportunities for the rapid evolution of recovery enhancement.

3:45 Introductory Remarks

3:50 Erdal Ozkan, Professor, Petroleum Engineering Department, Colorado School of Mines

4:00 Mohammad Piri, Distinguished Associate Professor of Petroleum Engineering, University of Wyoming

4:10 Matt Honarpour, Global Reservoir Engineering Advisor, BHP Billiton

4:20 Eric Michael, Director of Petroleum Systems, ConocoPhillips

4:30 Moderated Panel

4:50 Audience Q & A
Monday Afternoon ePapers

Enabling and Applied Technologies
Exhibition Hall, Station A
Co-Chairs: J. Bell and T. Juranek
1:50 *New Perforating Switch Technology Advances Safety and Reliability for Horizontal Completions*: L. Albert, J. Dennis, H. Prapoo* (Allied-Horizontal Wireline Services)
2:15 *American National Standards Institute’s (ANSI) Creation of the U.S. Technical Advisory Group (TAG) to ISO TC-82 Mining With a Focus on Reserve Estimation, Safety, Engineering, Underground Coal Gasification (UGC) and Coal Mine Methane (CMM) and Ventilation Mine Methane (VAM)*: S. M. Carpenter, G. J. Koperna (Advanced Resources International)
2:40 *Insights Into Mobilization of Shale Oil Using Microemulsion*: K. Buî1, Y. Akkutlu1, A. Zelenev2, H. Saboowala3, J. R. Gillis2, J. A. Silas4 (1. Texas A&M University; 2. CESI Chemical – Flotek)
3:05 *Applying the Concept of Systematic Reliability Management and Analysis to Achieve Better Well Equipment Performance Through Less Failures and Reduced Downtime Due to Work-Overs*: C. McPherson, H. Jenssen* (ExproSoft)
3:30 *An Experimental Study on Huff-n-Puff Gas Injection to Enhance Condensate Recovery in Shale Gas Reservoirs*: X. Meng, Y. Yu, J. J. Sheng (Texas Tech University)

Forecasting Production in Unconventional Reservoirs
Exhibition Hall, Station B
Co-Chairs: D. Ilk and J. Thompson
1:50 *Comparison of Shale Permeability to Gas Determined by Pressure-Pulse Transmission Testing of Core Plugs and Crushed Samples*: F. Civan, D. Devegowda (University of Oklahoma)

Production and Recovery Mechanisms
Exhibition Hall, Station C
Co-Chairs: S. Enayatpour, V. Jochen and H. Kalaei

Social Responsibility, Water Management and Groundwater Protection
Exhibition Hall, Station A
Co-Chairs: J. Bell, R. Hawkins and T. Juranek
3:55 *Water-Flexible Fracturing Systems*: J. Farrell, T. Baudendistel, M. Kidder (Schlumberger)
4:20 *Treating Acid Mine Drainage for Use as Source Water: A Pilot Study*: M. Heinrichs, A. Lane, R. Peterson (Battelle)

Surface and Midstream
Exhibition Hall, Station B
Co-Chairs: W. Doop, K. Richter and E. Storsteen
3:05 *Best Practices of a Joint Integrity Program*: N. Patterson, N. Ferguson* (Hydratight)
3:30 *Creating a Competitive Advantage Through Integrated Upstream Asset Management*: L. Wiley (SimSci (Schneider-Electric))

*Denotes presenter other than first author
Tuesday Topical Breakfasts

Time: 7:00 a.m.–8:15 a.m.
Fee: $35 per person

Energy for the Human Family — A View of Issues
Location: Room 214 A/B
Rev. Séamus P. Finn OMI, Director Faith Consistent Investing, OIP Trust
As the demand for energy to serve the numerous needs of the human family continues to expand across the world many important questions and issues are raised. These are legal, social, financial, ethical and moral and are being addressed at numerous levels. This presentation will address how some of these questions and issues are being addressed by religious leaders and by faith based and socially responsible investors.

Unconventional Resources and Unconventional People
Location: Room 214 C/D
Valerie Jochen, Technical Director in Production for Unconventional Resources, Schlumberger
The word “unconventional” has had resurgence in the past 20 years, evolving to mean more than the Webster definition of “eccentric and atypical.” The common use in our industry seems to be “not conforming to accepted rules or standards,” and based on that definition, I challenge those working in our industry also be “unconventional.”

Executive Plenary Session
Time: 8:30 a.m.–10:00 a.m.
Location: Lila Cockrell Theatre
Fee: Included with registration
Moderator: Mariano Gurfinke, Hess Corporation
The Executive plenary will dive into a play by play comparison and how different companies have tactically reacted to the current price and competitive environment. Lean manufacturing and the development, appraisal and use of new technologies will be presented and discussed.

8:30 Introductory Remarks
8:35 Manuj Nikhanj, Managing Director, Head of Energy Research, ITG
8:50 Peter Richter, Vice President of Strategic Development, BHP Billiton
9:05 Barry Biggs, Vice President Onshore, Hess Corporation
9:20 Moderated Panel
9:40 Audience Q & A

Tuesday Morning Oral Sessions
Imaging Dynamic Processes at the Pore Scale
Ballroom A
Co-Chairs: M. Honarpour, T. Olson and A. Rostami
10:45 Introductory Remarks
11:40 Spontaneous Imbibition of Fracturing Fluid and Oil in Shale: M. Akbarabadi, S. Saraji, M. Piri (University of Wyoming)

Modeling Well Spacing and Multiscale Transport
Ballroom B
Co-Chairs: D. Valleau and J. Wallace
10:45 Introductory Remarks
10:50 A Workflow for Multi-Scale Modeling and Simulation of Transport Phenomena in Woodford Shale Rock Matrix: J. Goral, I. Miskovic (University of Utah)

Western U.S. Case Studies: More Upside in the Rockies!
Room 103
Co-Chairs: R. Roden and J. Stratton
10:45 Introductory Remarks
10:50 Geologic Factors Controlling Production in the Codell Sandstone, Wattenberg Field, Colorado: S. Sonnenberg (Colorado School of Mines)
11:15 Predicting Reservoir Heterogeneity in the Upper Cretaceous Frontier Formation in the Western Powder River Basin — An Integrated Stratigraphic, Sedimentologic, Petrophysical and Geophysical Study: M. Hofmann2, S. Fluckiger1, A. Hennes1, J. Zawila1, H. Wang3 (1. SM Energy; 2. AIM Geoanalytics; 3. CGG)

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Tuesday Technical Program

Management of Groundwater Protection and Legacy Wells
Room 001
Co-Chairs: J. Bell, R. Hawkins and T. Juranek
10:45  Introductory Remarks
10:50  “To Treat or Not to Treat?”: Optimized Water Decisions Throughout the Produced Water Management Cycle: T. Baudendistel, J. Farrell (Schlumberger)

Integrated Completion Design: Challenging the Status Quo
Room 006
Co-Chairs: G. Dozier, R. Malpani and K. Stephenson
10:45  Introductory Remarks
10:50  Application of an Engineered Completion Methodology in the Eagle Ford to Improve Economics: J. Dahl1, J. Samaripa1, J. S. Spaid2, E. Hutto2, B. Johnson1, D. Buller1, R. Dusterhoft1 (1. Devon Energy; 2. Halliburton)

Natural Fractures and Your Completion Design
Room 007
Co-Chairs: C. Cipolla and J. Olson
10:45  Introductory Remarks

Multidisciplinary Integration: Some Surprising Outcomes
Room 008
Co-Chairs: M. Almasoodi, M. Kendrick and H. Xiong
10:45  Introductory Remarks
11:15  Relationship Between Bioturbation, Microfacies and Chemostratigraphy and Its Implication to the Sequence Stratigraphic Framework of the Woodford Shale in Anadarko Basin, Oklahoma, USA: F. Zou1, R. M. Slatt2, K. Hlava1 (1. Marathon Oil Corporation; 2. University of Oklahoma)
11:40  A New Play in an Old Basin: Integrated Evaluation of Eocene Fluvial Sandstone Reservoirs in San Juan Basin, New Mexico: S. Sturm1, A. Richardson1, S. Berglund2, Y. Faulkner1, T. Maxwell1, B. Pickup4 (1. PetroTechnical Services; 2. San Juan Region; 3. Exploration; 4. San Juan/Piceance)

Tuesday Morning ePapers

Evaluating and Modeling Kerogen and Petroleum Fluids I
Exhibition Hall, Station A
Co-Chairs: B. Driskill, T. Nace and O. Woodruff

Phase Behavior and Reservoir Production Modeling
Exhibition Hall, Station B
Co-Chairs: H. Kalaei, K. Moncada and K. Perry

Please watch for team presentations which are given additional time to display integrated approaches to unconventional plays. Each team consists of no more than three members with different technical backgrounds (geosciences, petrophysics, engineering, operations, etc.).

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Tuesday Technical Program

Well Testing and Production Optimization
Exhibition Hall, Station C
Co-Chairs: D. Ilk and B. Poe

Tuesday Topical Luncheons

Cause for Pause: Scientific Research on Hydraulic Fracturing Health Risks
Location: Room 214 A/B
Ann Alexander, Senior Attorney, Midwest Program, Natural Resources Defense Council (NRDC)
A significant and growing number of scientific studies have emerged in recent years documenting a correlation between hydraulic fracturing activity and harm to public health. The talk will explore recent research findings concerning the association between hydraulic fracturing and air toxics, birth defects and poor birth outcomes, seismic activity and other risks to public health and safety. It will look at how governments and NGOs such as NRDC are responding to scientific information concerning hydraulic fracturing risks and how those risks should be brought to bear in evaluating our energy future.

Diagnostic Fracture Injection Tests (DFITs): Benefits to Reservoir Characterization and Overall Field Development
Location: Room 214 C/D
Jennifer Miskimins, Senior Consulting Engineer, Barree & Associates
Diagnostic fracture injection tests (DFITs) are pump-in tests commonly used to determine fracturing parameters such as closure pressure, fluid efficiency and fracture gradients. However, the additional data that such tests can acquire, including effective permeability, the presence of natural fractures and reservoir pressure, can help in field development long after the completion stage. Multiple (DFITs) taken in a field can help with overall field development and when coupled with other data, can help to characterize the reservoir. This talk will discuss the use of these tests in an integrated setting and should be of interest to all disciplines.

Risks to Globalization of Unconventional Plays
Location: Room 204
D. Nathan Meehan, Senior Executive Advisor, Baker Hughes, Inc.
The dramatic growth of North American unconventional plays has made a huge impact on production and reserves, attracting the attention of operators around the world. China, Poland, Saudi Arabia and many other countries have high hopes for such projects. This presentation highlights a series of significant risks to exporting the North American success story, including property ownership, access to leases and data, risk seeking capital, water availability, varying geological and geomechanical circumstances and the social license to operate. Are such risks surmountable? One major hurdle is the dependence on statistical methods to evaluate plays and identify sweet spots. Many others remain.

Tuesday Afternoon Oral Session

Completion and Stimulation Practices: What to Do With All That Horsepower
Ballroom A
Co-Chairs: U. Ahmed, I. Aviles and J. Gujral
1:45  Introductory Remarks
1:50  An Integrated Dataset Centered Around Distributed Fiber Optic Monitoring—Key to the Successful Implementation of a Geo-Engineered Completion Optimization Program in the Eagle Ford Shale: S. D. Cadwallader¹, J. Wampler¹, T. Sun¹, H. M. Sebastian¹, M. C. Graff¹, I. R. Gil¹, H. Patel¹, G. Merletti¹, J. Rodgerston¹, D. Spain¹, T. Lowrey², R. Miller², J. Hadden², J. Swanson² (1. BP; 2. Lewis Energy Group)
2:40  Is Pumping Large Volume Sand Fracs Sustainable?: R. Shelley, W. Al-Tailji, N. Guliyev, S. Sheludko (StrataGen)
3:05  Refreshment Break
4:10  Fracture Curving Between Tightly Spaced Horizontal Wells: R. Safari¹, X. Ma¹, R. E. Lewis¹, U. Mutlu¹, A. Ghassemi¹ (1. Weatherford; 2. University of Oklahoma)
5:00  Assessment of Hydrocarbon Potential in the Niobrara Formation, Rosebud Sioux Reservation, South Dakota: D. J. Soeder¹, F. Sawyer², A. Freye³, S. Singh³ (1. U.S. Department of Energy; 2. South Dakota School of Mines and Technology; 3. Sinte Gleska University)

*Denotes presenter other than first author
### Reservoir Characterization and Mapping the Ethereal Sweetspot

**Room 003**

**Chair:** C. Clarkson, T. Olson and A. Rostami

**Time**

1:45  
1:50  
2:15  
2:40  
3:05  
3:45  
4:10  
4:35

1. **Introductory Remarks**
2. **Integrated Geophysical Technologies for Unconventional Reservoirs and Case Study Within Fuling Shale Gas Field, Sichuan Basin, China:** T. Guo, J. Li, M. Lao*, W. Li (Sinopel Exploration Company)
3. **Integrated Petrophysical and Geophysical Analysis on Identifying Eagle Ford Sweet Spots:** B. Chen, D. Kumar, A. Uerling, S. Land, O. Aguirre, T. Jiang, S. Sugianto (BP America Inc.)
4. **Application of Wide-Azimuth 3-D Seismic Attributes to Predict the Microfractures in Block MA Area for Shale Gas Exploration in South China:** Y. Zhang¹, G. Yu¹, X. Liang², L. Jiang³ (1. BGP Inc.; 2. Zhejiang Oilfield, CNPC; 3. RSI)
5. **Refreshment Break**
6. **Integration of Multicomponent Surface Seismic, Multicomponent VSP and Microseismic in Reservoir Characterization:** P. Constance², J. Simmons¹, S. Chi², L. Sanford¹ (1. ION Geophysical; 2. Enervest)
7. **Integration of Microseismic With Rock Properties From Multicomponent Seismic Data, Mississippi Lime Play, North Central Oklahoma:** S. W. Singleton¹, S. Chi², C. Lapaire³, L. Sanford¹, P. Constance² (1. ION Geophysical Corp.; 2. HighMount Energy)
8. **Improving Wolfcamp B3 Drilling and Production by Integrating Core, Mud Logs, Electrical Logs, Seismic Inversion, Microseismic and Drilling Data:** H. Ye, L. Waite, R. Meek (Pioneer Natural Resources)

#### Techniques for Imaging Unconventionals at Multiple Scales

**Room 103**

**Chair:** C. Clarkson, T. Olson and A. Rostami

**Time**

1:45  
1:50  
2:15  
2:40  
3:05  
3:45  
4:10  
4:35  
5:00

1. **Introductory Remarks**
2. **A Quantitative Pore-Scale Investigation on the Paragenesis of Wilcox Tight Gas Sandstone:** A. Mehrani, K. Milliken, M. Prodanovic (The University of Texas at Austin)
3. **Quantifying Variability of Reservoir Properties From a Wolfcamp Formation Core:** J. Walls, A. Morcote Rios (Ingrain, Inc.)
4. **Petrophysical and Fluid Flow Properties of a Tight Carbonate Source Rock Using Digital Rock Physics:** M. Dernaika¹, O. Al Jallad², S. Koronfel³, M. Suhrer¹, J. Walls¹, S. Matari¹ (1. ION, Inc.; 2. Kuwait Oil Company)
5. **Refreshment Break**
6. **Probing Hydrocarbon Fluid Behavior in Shale Formations:** H. Xue, R. Hjelm, M. Ding, Q. Kang, R. J. Pawar (Los Alamos National Laboratory)
7. **Simulating the NMR Response for Organic Rich Shales:** K. Washburn (Ingrain, Inc.)
8. **Mapping of Microbial Habitats in Organic-Rich Shale:** E. Buchwald⁰, A. M. Swift¹, D. R. Cole¹, J. M. Sheets¹, T. Prisk², L. L. Anovitz², J. Ilavsky³, M. Rivers⁴, S. Welch⁵, D. Chipera⁶ (1. Ohio State University; 2. Oak Ridge National Laboratory; 3. Argonne National Laboratory; 4. University of Chicago; 5. Chesapeake Energy Corporation)
9. **Multi-Resolution Imaging of Shales Using Electron and Ion Microscopy:** T. Cavanaugh (Ingrain, Inc.)

#### Reservoir Production Modeling: The Enigmas From Nano-Flow Behavior to EUR

**Room 001**

**Chair:** H. Kalaei, K. Moncada and K. Perry

**Time**

1:45  
1:50  
2:15  
2:40  
3:05  
3:45  
4:10  
4:35  
5:00

1. **Introductory Remarks**
2. **Integrated Haynesville Production Analysis:** H. Sun, A. Chawathe, D. Zhou, K. Maclvor, H. Hotelt (Chevron)
3. **Molecular Dynamics Simulations of Retrograde Condensation in Nanoporous Shale:** W. R. Welch, M. Piri (University of Wyoming)
4. **Confinement Effects on Hydrocarbon Mixture Phase Behavior in Organic Nanopore:** B. Rahmani, Y. I. Akkutlu (Texas A&M University)
5. **Refreshment Break**
6. **A Modified Approach For Modeling 2-Phase Flowback From Multi-Fractured Horizontal Shale Gas Wells:** J. Williams-Kovacs, C. Clarkson (University of Calgary)
7. **Interference Behavior Analysis in Vaca Muerta Shale Oil Development, Loma Campana Field, Argentina:** M. D. Rimedio¹, C. Shannon², L. Mont¹, A. Lerza¹, M. Roberts², D. Licitra¹, J. Quiroga¹ (1. YPF S.A; 2. Chevron)
8. **A Novel Approach for Production Transient Analysis of Shale Gas/Oil Reservoirs:** C. Yang, V. Sharma, A. Datta-Gupta, M. J. King* (TAMU)
9. **Production Analysis and Mechanistic Modeling for Evaluation of Shale Plays:** P. Thararoop (Anadarko Petroleum Corporation)

### The Bakken Reloaded

**Room 006**

**Chair:** C. Cipolla and R. Roadier

**Time**

1:45  
1:50  
2:15  
2:40  
3:05  
3:45  
4:10  
4:35  
5:00

1. **Introductory Remarks**
3. **Characterizing the Middle Bakken: Laboratory Measurement of Middle Bakken Properties:** J. Braunberger, G. Liu, C. Gorecki, J. Hamling, S. Smith, E. Steadman, J. Harju (University of North Dakota)
4. **Bakken Well Performance Predicted From Shale Capacity:** H. Li, M. Dawson, B. Hart, E. Radjef (Statoil)
5. **Characterizing the Lower Bakken Shale in Horizontals Drilled in the Three Forks in Divide County, North Dakota:** R. Kausik.K.V¹, P. R. Craddock¹, S. Reeder¹, R. L. Kleinberg¹, A. E. Pomerantz¹, E. I. Rylander¹, R. E. Lewis¹ (1. Schlumberger-Doll Research; 2. Schlumberger)
6. **Improved Reserve Estimates Using Spatial Averaging:** M. Kelkar (University of Tulsa)

*Denotes presenter other than first author
Forecasting Production in Unconventional Reservoirs: Getting the Real EUR to the Podium
Room 007
Co-Chairs: D. Ilk, J. Thompson and R. Walker
1:45  Introductory Remarks
1:50  An Approximate Analytical Multi-Phase Forecasting Method for Multi-Fractured Light Tight Oil Wells With Complex Fracture Geometry: C. R. Clarkson, F. Ganbari, H. Behmanesh, J. D. Williams-Kovacs (University of Calgary)
2:15  Shale Gas Production Decline Trend Comparison Over Time and Basins Revisited: J. Baihly, R. Malpani, R. M. Altman, G. Lindsay, R. Clayton (Schlumberger)
3:05  Refreshment Break
3:45  Methodology for Construction of Type Wells for Production Forecasting in Unconventional Reservoirs: A. Rastogi, W. Lee (University of Houston)
4:35  Re-Fracturing Simulations: Pressure-Dependent SRV and Shear Dilation of Natural Fractures: R. Mittal, Y. Oruganti, C. McBurney (Baker Hughes)

Characterization of Facies Through Rock Physics: Petrophysics and Seismic Data
Room 008
Co-Chairs: B. Barkhouse and H. Meighan
1:45  Introductory Remarks
2:15  Topological Data Analysis of Marcellus Play Lithofacies: A. Cortis (Ayasdi)
2:40  Integrated Interpretation of Microseismic and Seismic Data in a Tight Sandstone Reservoir: J. Du1, J. Zhang2, G. Xu1, X. Sun1 (1. BGP, CNPC; 2. Xinjiang Oil Company)

Tuesday Afternoon Interactive Panel
Sweet Spotting — Isn’t This Our Goal?
Time: 3:45 p.m.–5:10 p.m.
Location: Room 008
Fee: Included with registration
Moderator: Craig Cipolla, Senior Completions Engineering Advisor, Hess Corporation
We’ve all heard it said, “Just drill the best wells first” — if it were only that easy! Finding the reservoir interval with the right geomechanical properties and then designing a well placement and completion strategy is critical for success. Knowledge of regional geological and stress analysis is fundamental and when coupled with geophysical and geochemical information trends can be discerned. This panel will discuss recent advances in identifying and exploiting the elusive sweet spots.
3:45  Introductory Remarks
3:50  Norm Warpinski, Technology Fellow, Pinnacle – A Halliburton Service
4:00  George King, Global Technology Consultant, Apache Corporation
4:10  Gervasio Barzola, Vice President Subsurface & Development, Southern Wolfcamp Asset Team, Pioneer Natural Resources
4:20  Usman Ahmed, Vice President and Chief Reservoir Engineer, Baker Hughes Reservoir Technology
4:30  Moderated Panel
4:50  Audience Q & A

Tuesday Afternoon ePapers
Characterization of Shales: Chemostratigraphy and Geochemistry
Exhibition Hall, Station A
Co-Chairs: B. Driskill, S. Rilling-Hall and N. Rosenau
2:15  What Can Magnetic Susceptibility Do for Us in Shale Plays When Used as Part of an Integrated Workflow?: M. Wright1, K. Ratcliffe1, M. Hounslow2 (1. Chemostrat Inc.; 2. Lancaster University)
2:40  Core Chemostratigraphy and Elemental Geochemistry Along a Dip-Section, Pearsall Formation, Lower Cretaceous, Central to South Texas: H. Rowe, R. Loucks, C. Kerans (University of Texas at Austin)

Please watch for team presentations which are given additional time to display integrated approaches to unconventional plays. Each team consists of no more than three members with different technical backgrounds (geosciences, petrophysics, engineering, operations, etc.).
China Case Studies
Exhibition Hall, Station B
Co-Chairs: N. Fishman and X. Li
1:50  Diagnostics of Casing Deformation in Multi-Stage Hydraulic Fracturing Stimulation in Lower Silurian Marine Shale Play in Southwestern China: G. Qin, Y. Li (University of Houston)
2:15  Shale Gas OVT Seismic Data Prestack Trace-Gather Optimization Technique: Y. Zhang¹, G. Yu¹, X. Liang², B. Liu¹, G. Hu¹ (1. Bureau of Geophysical Prospecting (BGP) Inc. of CNPC; 2. ZhenJiang Oil Field; 3. Electric Science University)
2:40  Key Factors to Tight Oil Accumulation of Permian Lucaogou Formation in the Jimsar Sag of Junggar Basin, Northwestern China: X. Ding, M. Zha, C. Gao, J. Qu, Y. Su, H. Lian (School of Geosciences in China University of Petroleum, Qingdao)
3:05  The Lower Carboniferous Black Shale in the Central Guangxi Depression, Southwest China: A Novel Potential Shale Gas Play: X. He, A. Shen, S. Xiong, Y. Hu, J. Wu (PetroChina Hangzhou Research Institute of Geology)

Eagle Ford: The Journey Continues
Exhibition Hall, Station B
Co-Chairs: D. Devegowda and H. Meier
3:30  Anoxic, Storm Dominated Inner Carbonate Ramp Deposition of Lower Eagle Ford Formation, West Texas: M. Wehner¹, R. Gardner², M. M. Tice¹, M. C. Pope¹, A. D. Donovan¹, S. Staerker¹ (1. Texas A&M University; 2. BP America)
3:55  An Experimental Investigation of the Effect of Pressure Depletion Rate on Oil Recovery From Shale Cores by Cyclic N₂ Injection: Y. Yu, J. J. Sheng (Texas Tech University)

Evaluating and Modeling Kerogen and Petroleum Fluids II
Exhibition Hall, Station A
Co-Chairs: T. Nace and O. Woodruff

Microseismic I: Does It Really Add Value?
Exhibition Hall, Station C
Co-Chairs: R. Hull and J. O’Brien
1:50  The Effect of Velocity Uncertainty and Attenuation on Flow Estimates From Microseismicity: O. V. Poliannikov¹, M. Fehler¹, A. Malcolm² (1. MIT; 2. Memorial University of Newfoundland)
2:15  Fracture Surface Extraction and Stress Field Estimation From Three-Dimensional Microseismic Data: D. Copeland, A. Lacazette (Global Geophysical Services)
2:40  A New Method of Neostress Determination From Passive Seismic Data: A. Lacazette¹, A. Morris² (1. Global Geophysical Services; 2. Southwest Research Institute)
3:05  Identification of Microseismic Attributes Through Spectral Analysis: M. J. Nava, J. W. Rector, Z. Zhang (University of California, Berkeley)
3:30  Microseismic Event Location Using Multiple Arrivals: Demonstration of Uncertainty Reduction: Z. Zhang, J. W. Rector, M. J. Nava (University of California, Berkeley)
4:20  Modeling of Near-Wellbore Hydraulic Fracture Complexity: C. Sherman¹, J. Morris¹, S. Johnson¹, A. A. Savitski² (1. Lawrence Livermore National Laboratory; 2. Shell International Exploration and Production, Inc.)
Wednesday Technical Program

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Wednesday Topical Breakfasts

Shale Plays: How Technology, Governments, Regulators, Academia and the Public Have Changed the World’s Energy Supply and Demand Equation

Joseph H. Frantz, Jr., Vice President of Engineering Technology, Range Resources Corporation

The global shale revolution is just beginning. Production from U.S. shale reservoirs has increased from 2.5 Bcf/d to almost 35 Bcf/d since 2007, illustrating the viability of this prolific new source of long-term gas supply. Other countries will undoubtedly use the knowledge developed in North America to jump-start their own shale plays. Although technical advancements are largely responsible for unlocking the potential of shale gas, the industry’s coordination with a broad set of stakeholders arguably have equal, and perhaps more influence on the implementation of new shale developments. As such, they will increasingly impact our industry’s ability to more fully develop these resources. This presentation focuses on key technological advancements that drive shale gas development, but also the important aspect of how our industry is working with governments, regulators, academia and the public more collaboratively to best maximize the immense benefits from this opportunity, while fostering the use of best practices.

Learnings and Lessons From Shale Exploration in a Tectonized Foreland Basin: Controls on Sweet Spot Development in the Duvernay Shale

Matthew Davis, Manager, Geosciences, Encana Services Company Ltd.

The role that basement scale tectonics played in the evolution of the Western Canadian Sedimentary Basin is profound and provides the context by which regional heat flow trends, shale maturity morphology, fracture and fault patterns and associated pressure cells can be mapped. Integrated geochemical data from all publicly available and proprietary data has been modelled and utilized to build maturity maps that have predicted the distribution of produced liquid yields and fluid densities to date. A strong correlation is observed between Devonian Reef morphology, reservoir quality, shale thickness, maturity and pressure to the syndepositional tectonic environment. An integrated model is presented to explain the context of how these parameters all coincide.

Wednesday Morning Oral Sessions

Eagle Ford: The Journey Continues II

Ballroom A

Co-Chairs: J. Mahoney, J. Paktinat and R. Roadifer

8:25 Introductory Remarks

8:30 Acoustic Log Measurements in the Lower Eagle Ford Formation in Brazos and Robertson Counties, Texas and Their Implications on Completion Design: R. Reischman¹, S. Brooks², T. Willms², T. L. Albrecht², J. J. Walsh¹, E. Arteaga¹ (1. Schlumberger; 2. Hawkwood Energy LLC)

8:55 Investigating Natural Fracture Effects on Well Productivity: Eagle Ford, La Salle County, Texas: P. Grossi (Talisman Energy USA)


9:45 Eagle Ford Well Spacing: A Methodology to Integrate, Analyze and Visualize Multisource Data in Solving a Complex Value-Focused Problem: P. Lindner, H. Bello (Pioneer Natural Resources)

10:10 Refreshment Break

10:50 Using a Calibrated 3-D Frac Simulator to Optimize Completions of Future Wells in the Eagle Ford Shale: E. Ejofodomi¹, A. Dutt², J. Bahlby¹ (1. Schlumberger; 2. Forest Oil)

11:15 Multi-Source Data Integration: Eagle Ford Shale Sweet Spot Mapping: B. Tinnin, H. Bello, M. McChesney (Pioneer Natural Resources)

Evaluating and Modeling Kerogen and Petroleum Fluids

Ballroom B

Co-Chairs: B. Driskill, T. Nace and O. Woodruff

8:25 Introductory Remarks

8:30 Kerogen Density Revisited — Lessons From the Duvernay Shale: A. Stankiewicz¹, N. Ionkina³, B. Motherwell², B. Bennett¹, O. Wint¹, M. Mastalerz² (1. Schlumberger; 2. Encana; 3. Indiana University)


9:45 Using Geochemical Fingerprinting as a Direct Indicator of Zones Accessed by Induced Fractures in Horizontal Wells in the Wolfcamp and Sprabery Formations of the Midland Basin: M. Laughland³, D. K. Baskin² (1. Pioneer Natural Resources; 2. Weatherford Laboratories)

10:10 Refreshment Break

10:50 Source Rock Potential and Sequence Stratigraphy of Bakken Shales in the Williston Basin: H. Jin², S. Sonnenberg¹, R. Sarg¹ (1. Colorado School of Mines; 2. BP America Inc.)

11:15 Addressing the Unconventional Caves of Source Rock Pyrolysis: Modified Methods and Interpretive Ideas: R. R. King¹, D. M. Jarvie¹, D. Cannon² (1. ALS Empirica; 2. Diamondback Energy; 3. Texas Christian University)

*Denotes presenter other than first author
Wednesday Technical Program

Rock Physics and Multiphase Flow
Room 103
Co-Chairs: C. Clarkson, M. Honarpour and M. Mokhtari
8:25 Introductory Remarks
8:30 Rock Physics Model of the Eagle Ford Shale: C. M. Sayers, J. J. Walsh, K. Fisher, S. Dasgupta (Schlumberger)
8:55 AMS: A Petrofabric Tool to Measure Fabric Anisotropy Across Shale Units: G. Heij1, D. Elmore1, J. Roberts1, A. K. Steullet1, S. A. Dulin1, S. Friedman2 (1. University of Oklahoma; 2. Southern Illinois University)
9:20 Contact Angle Measurements on Conventional and Unconventional Reservoir Cores: T. Teklu, W. Alameri, H. Kazemi, R. M. Graves (Colorado School of Mines)
9:45 Relative Permeability of Unconventional Mixed-Wet Rocks: H. Dehghanpour, Q. Lan, A. Habibi (University of Alberta)
10:10 Refreshment Break
11:15 Using Sonic and Resistivity Effective Medium Theories to Quantify the Influence of Rock Fabric on the Mechanical Properties of Organic Mudrocks: P. Sayar, C. Torres-Verdin (University of Texas at Austin)

Production and Recovery Mechanisms: Can These Be Optimized?
Room 001
Co-Chairs: S. Enayatpour, V. Jochen and H. Kalaei
8:25 Introductory Remarks
8:55 When Less Flowback is More: A Mechanism of Permeability Damage and Its Implications on the Application of EOR Techniques: R. Longoria, T. Liang, D. A. DiCarlo (University of Texas at Austin)
9:20 Automated Field Development Planning for Unconventional Shale Gas or Oil: P. Tilk1, W. Zhou1, Y. Wang2, S. Krishnamurthy2, M. Bhanushali1, B. Samson1, G. Grove1, J. Speth1, M. Thambinayagam2 (1. Schlumberger-Doll Research; 2. Schlumberger)
10:10 Refreshment Break
10:50 Pseudo-Pressure and Pseudo-Time Analysis for Unconventional Oil Reservoirs With New Expressions for Average Reservoir Pressure during Transient Radial and Linear Flow: R. Roadifer, H. Kalaei (ConocoPhillips)
11:15 The Applicability of Surfactant-Based EOR Technique to Enhance the Productivity in Tight Formations: T. Liang, R. Longoria, D. A. DiCarlo (University of Texas at Austin)
11:40 Unraveling Minimum Liquid Yields From Variable PVT and Production Data in the Woodford Using EOS: C. Karacaer1, T. Firincioglu1, L. Thompson2 (1. NITEC LLC; 2. Cimarex)

Advances in Well Testing and Flow Analysis
Room 006
Co-Chairs: D. Ilk, B. Poe and H. Xiong
8:25 Introductory Remarks
8:30 Is That Interference? A Workflow for Identifying and Analyzing Communication Through Hydraulic Fractures in a Multi-Well Pad: A. Awada1, M. Sonto1, D. Lougheed1, D. Xu1, C. Virus2 (1. IHS Inc.; 2. Nexen Energy ULC)
8:55 A New 1-D Computational Fluid Dynamics Formation Evaluation Model (CFDFEM) During Treatment Injection and Flowback for Perforated Well Completions by Pressure Transient Testing: S. Madasu, A. Lin (Halliburton Energy Services Inc.)
10:10 Refreshment Break
11:15 Flow Units in Shale Condensate Reservoirs: R. Aguilara (University of Calgary)

Stimulation Case Studies: What Works and What Doesn’t?
Room 007
Co-Chairs: U. Ahmed, I. Aviles and R. Fulks
8:25 Introductory Remarks
8:55 Integration of Microseismic Data and an Unconventional Fracture Modeling Tool to Generate the Hydraulically Induced Fracture Network: A Case Study From the Cardium Formation, West Central Alberta, Canada: X. Yu1, J. Rutledge1, S. Leanev1, J. Sun1, P. Pankaj1, X. Weng1, H. Onda1, M. Donovan1, J. Nielsen1, J. Duhault2 (1. Schlumberger; 2. Lightstream Resources)
Wednesday Technical Program

9:20 Monitoring and Imaging the Dynamics and Extent of Hydraulic Fracturing Fluid Movement Using Ground-Based Electromagnetics, With Application to the Eagle Ford Shale: M. S. Hickey¹, S. Treviño¹, M. Everett² (1. Deep Imaging Technologies, Inc; 2. Texas A&M University)


Restimulation Practices and Results
Room 007
10:45 Introductory Remarks
10:50 Stress Field Change Due to Reservoir Depletion and its Impact on Refrac Treatment Design and SRV in Shale Reservoirs: J. Han, A. Sookprasong, R. Hurt (Baker Hughes)
11:15 Major Obstacles in Production From Hydraulically Re-Fractured Shale Formations: Reservoir Pressure Depletion and Pore Blockage by the Fracturing Fluid: M. Haddad, A. Sanaei, E. Waheed Al-Shalabi, K. Sepehrnoori (University of Texas at Austin)
11:40 Fracture Stages Optimization in Bakken Shale Formation: B. Ran, M. Kelkar (University of Tulsa)

Applied Analytics: Life With Too Many Variables
Room 008
Co-Chairs: J. Frantz and M. Gurfinkel
8:25 Introductory Remarks
8:30 Finding the Key Drivers of Oil Production Through SAS Data Integration and Analysis: B. Rollins, M. Herrin (Devon Energy)
9:20 Data Analytics for Production Optimization in Unconventional Reservoirs: S. Mishra¹, J. Schuetter¹, M. Zhong², R. Lafollette² (1. Battelle Memorial Institute; 2. Baker Hughes)
9:45 Data Mining and Statistical Analysis of Completions in an Unconventional Play: The Canadian Montney Formation: M. A. Al-Alwani¹, L. K. Britt¹, S. Dunn-Norman¹ (1. Missouri University of Science and Technology; 2. NSI Fracturing LLC)
10:10 Refreshment Break
10:50 Formation Versus Completion: Determining the Main Drivers Behind Production From Shale — A Case Study Using Data-Driven Analytics: S. D. Mohaghegh (West Virginia University)
11:15 Deriving Unconventional Reservoir Predictive Models From Historic Data Using Case Base Reasoning: L. A. Saputelli, A. Verde, Z. Haris (Frontender)
11:40 Multivariate Classification for the Integration of Core, Log and Seismic Data on Intersecting Pre-Stack Inverted 2-D Seismic Lines, Lublin Basin, Poland: D. Handwerger¹, R. Castañeda-Aguilar¹, G. Vaaland Dahl², H. G. Borgos², J. Zacharski², D. Krawiec², A. Buniak², W. Prugar², R. Suarez-Rivera² (1. Schlumberger Research; 2. Schlumberger Stavanger Research; 3. Orlen Upstream; 4. W.D. Von Gonten Laboratories LLC)

Microseismic II: Does It Really Add Value?
Exhibition Hall, Station A
Co-Chairs: S. Maxwell, J. O’Brien and G. Sparkman
9:30 Identifying the Effectiveness of Treatment Programs with Microseismicity: J. W. Crowley, T. Urbancic, A. M. Baig (The Engineering Seismology Group)

Modeling Flow in Complex Systems
Exhibition Hall, Station B
Co-Chairs: S. Rhodes and D. Valleau
9:30 3-D Finite Difference Modeling of Microseismic Source Mechanisms in the Wolfcamp Shale of the Permian Basin: R. Meek¹, R. A. Hull¹, A. Von der Hoy¹, D. Eaton² (1. Pioneer Natural Resources; 2. University of Calgary)
9:55 A Bundle of Short Conduits Model of the Pore Structure of Gas Shale: C. Jiang¹, S. Bryant¹, H. Daigle¹ (1. University of Texas at Austin; 2. University of Calgary)
10:20 Computational Fluid Dynamics Modeling of Proppant Transport in a Plug and Perf Completion With Different Perforation Phasing: J. Zhang, S. Dunn-Norman¹ (Missouri University of Science and Technology)
10:45 Shale Fluid Transport in Nano-Scale Networks: The Competing Roles of Fluid Properties, Interfaces and Network Geometry: S. A. Kelly, C. Torres-Verdín, M. T. Balhoff (University of Texas at Austin)
11:10 Use of Automatic Moment Tensor Inversion in Real Time Microseismic Imaging: M. Kratz, M. Thornton (Microseismic Inc)

Techniques for Imaging Unconventionals at Multiple Scales
Exhibition Hall, Station C
Co-Chairs: T. Olson and A. Rostami
10:20 Terrestrial LIIDAR Imaging and Analysis of Natural Fractures in Chattanooga Shale in Northeastern Alabama: J. Clark, I. Cemen (University of Alabama)

The Bakken Reloaded
Exhibition Hall, Station C
Chair: C. Cipolla
10:45 Scaling Laboratory Data Surfactant Imbibition Rates to the Field in Fractured Shale Formations: D. Wang, J. Zhang, R. Butler (University of North Dakota)
Wednesday Afternoon Oral Sessions

Production Optimization From Stimulation to Soaking: What Works?
Ballroom A
Co-Chairs: K. Richter and M. Sorrell
1:45 Introductory Remarks
1:50 A Multidisciplinary Study of Stimulation Designs in the Three Forks Formation, North Dakota: M. Ostadhassan, B. Bubach (University of North Dakota)
2:15 Microseismic-Derived Ultimate Expected Fracture Half-Length in Unconventional Stimulated Reservoir Volume in a Multi-Fractured Horizontal & Well Full Pad — Canadian Horn River Basin Case Study: C. Virues, J. Budge, E. Von Lunen (Nexen Energy ULC)
2:40 A Case Study: The Impact of Soaking on Well Performance in the Marcellus: E. Yaich1, S. Williams1, A. Bowser1, P. Goddard1, O. C. Diaz de Souza1, R. A. Foster1 (1. BG Group; 2. EXCO Resources)
3:05 Automating Gas Lift Injection Rates Best Practices to Maximize Production: M. Machuca (Emerson)
3:30 Vaca Muerta: Challenging the Paradigm of Producing From a Shale Formation: J. F. Martinez, J. I. Alvarez Claramunt (YPF SA)

Emerging Plays II: Which Ones Will Make The Cut?
Room 103
Co-Chairs: G. Gillis, D. Hume and H. Meier
1:45 Introductory Remarks
1:50 A Regional Re-Evaluation of the Mississippi Lime Play, South-Central Kansas: The Risks and Rewards of Understanding Complex Geology in a Resource Play: B. Mitchell, K. Simpson (Shell Oil Company)
2:15 Quantitative and Qualitative Evaluation of Micro-Porosity in Qusaiba Hot Shale, Rub‘Al-Khali Basin, Saudi Arabia: M. O. Abouelfresh (King Fahd University of Petroleum & Minerals)
2:40 Where is the Vaca Muerta Sweet Spot? The Importance of Regional Facies Trends, Thickness Variations and Thermal Maturity in Generating Play Concepts: H. M. Reijenste1n1, C. Lipinski1, M. Fantin1, S. A. Cuervo1, F. González Tomassini1, D. Kietzmann1, L. C. Crousse2, M. Vallejo2 (1. Chevron; 2. Chesapeake Energy)
3:30 Initial Analysis of Hydrocarbon Potential in the Tablazo Formation; Center and Northern Areas of Middle Magdalena Valley, -MMV- Colombia: M. F. Jimenez Jacome, C. A. Rojas Suarez, Y. A. Valderrama Lopez (Ecopetrol)

Calling Home From the Subsurface:
Applications of Fiber Optics
Room 001
Co-Chairs: J. Gujral, D. Ilk and B. Poe
1:45 Introductory Remarks
1:50 Fiber Optic Revelations From a Multistage Open Hole Lateral Fracturing Treatment: J. Baihly1, A. Dutt1, E. Ejofodomi1, A. Menkhaus1, P. Dickenson1, C. Wilson1, K. England1 (1. Schlumberger; 2. Forest Oil)
2:40 Fiber-Optic Monitoring: Stimulation Results From Unconventional Reservoirs: E. Holley, N. Kalia (Halliburton)
3:05 Importance of Downhole Measurements, Visualization and Analysis in Producing Unconventional Wells: L. E. Gonzalez, R. Chokshi1, W. Lane (Weatherford)

*Denotes presenter other than first author

Please watch for team presentations which are given additional time to display integrated approaches to unconventional plays. Each team consists of no more than three members with different technical backgrounds (geosciences, petrophysics, engineering, operations, etc.).

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Alchemy or Science? Chemostratigraphy for Depositional Environments and Facies
Room 006
Co-Chairs: B. Driskill, S. Rilling-Hall and N. Rosenau
1:45 Introductory Remarks
1:50 Using Nitrogen Isotopes to Evaluate Unconventional Resource Plays: T. M. Quan, J. Puckette, K. Rivera, B. Otto, E. Adigwe (Oklahoma State University)
2:40 Modeling TOC and Anoxia From Elemental Data: A Reality Check: M. Wright, K. Ratcliffe, E. Mathia (Chemostrat Inc.)
3:05 Identifying Landing Zones Utilizing High-Resolution X-Ray Fluorescence (XRF) Chemostratigraphy: J. Pierce, J. Parker (Chevron)

Using Performance to Define Completion and Stimulation Strategies
Room 007
Co-Chairs: J. Paktinat and M. Sharma
1:45 Introductory Remarks
1:50 Diagenetic Evolution of The Eagle Ford Formation, Southwest Texas: Impacts Upon Reservoir Quality and Rock Properties: R. T. McAllister1, K. Taylor1, B. Garcia-Fresca1, C. Hollis2 (1. University of Manchester; 2. Statoil Gulf Services LLC)
2:15 Condensate Decline Habits in the Maverick Basin Area of the Eagle Ford Play: D. Crighton, F. Montel (TOTAL SA)
2:40 History Match Case Study With a Multi-Cluster & Multi-Well Hydraulic Fracture Modeling Tool: Z. Zhai, E. Fonseca (Shell International E&P)
3:05 Improve Well Performance by Reducing Formation Damage: B. Goldstein1, K. Josyula1, A. VanZeeland1, T. Tran1, L. O’Connel1, M. Conway2 (1. Fairmount Santrol; 2. Stim-Lab)

Wednesday Afternoon Interactive Panel
Operations and Production Challenges – Planning for Long-Term Production
Time: 1:45 p.m.–3:10 p.m.
Location: Room 008
Fee: Included with registration
Moderator: George Koperna, Vice President, Advanced Resources International
More than 95 percent of all U.S. oil wells require some form of artificial lift from the start of production. Various pumping methods employed today include beam/sucker rod, gas lift, plunger lift, electric submersible, progressing cavity and subsurface hydraulic pumps. These artificial lift methods coupled with new advances in digital oil field automation allow greater efficiency and less downtime. Yet challenges remain both in equipping extended-reach lateral wells and creating a stable and robust automated monitoring system. The panel will review and assess the current and emerging technologies that are being used to enhance long-term performance for gas and liquids-rich shale wells.

1:45 Introductory Remarks
1:50 Richard Luht, Executive Technology Leader, GE Global Research
2:00 Shauna G. Noonan, Completion Technology Manager, ConocoPhillips
2:10 Kyel Hodenfield, Vice President, Artificial Lift, Schlumberger
2:20 Alex Vilcinskas, Senior Artificial Lift Advisor, Baker Hughes
2:30 Moderated Panel
2:50 Audience Q & A
Post-Conference Operators’ Forum

Presented by: SPE/AAPG/SEG Cooperation Committee

Appraisal and Development of Unconventional Reservoirs

Date: Thursday
Time: 8:00 a.m.–5:00 p.m.
Location: Grand Hyatt San Antonio, Texas Ballroom D, fourth floor
Fee: URTeC Registrants: Professional $195, Student $35; Non-Conference Registrants: Professional $395
Includes: Course notes, lunch and refreshments
Limit: 200 people

After the presentations, there will be a panel discussion in which speakers and the attendees will help to identify the most fruitful areas of future research for unconventional resource development. A white paper will be written as a result of this Panel Session, which can be used both as notes and as a guide for future events addressing specific assessment and development problems.

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<th>Time</th>
<th>Presentations</th>
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<th>Unconventional Reservoir</th>
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<td>8:00 a.m.–8:15 a.m.</td>
<td>Bob Poe, Creties Jenkins, James Rector</td>
<td>SPE, AAPG &amp; SEG Chairmen</td>
<td>Eagle Ford</td>
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<tr>
<td>8:15 a.m.–8:45 a.m.</td>
<td>“Multi-Disciplinary Assessment and Development of Eagle Ford: Evolution in Well and Stage Spacing” Basak Kurtoglu and Alejandro de la Pena</td>
<td>Marathon Oil</td>
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<tr>
<td>8:45 a.m.–9:10 a.m.</td>
<td>Discourse</td>
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<td>9:10 a.m.–9:40 a.m.</td>
<td>“A Multi-Disciplinary Approach to Completions and Field Development in the Bakken and Three Forks” Troy Kisner, Ted Dohmen and Ellie Chuparova</td>
<td>Hess Corporation</td>
<td>Bakken</td>
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<td>Discourse</td>
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<tr>
<td>10:30 a.m.–11:00 a.m.</td>
<td>“The Application of New Technologies to Wellbore and Field Optimization in the Marcellus Shale, Appalachian Basin, USA” David “Randy” Blood</td>
<td>EQT Resources</td>
<td>Marcellus</td>
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<td>11:00 a.m.–11:25 a.m.</td>
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<td>11:25 a.m.–11:55 a.m.</td>
<td>“Completion Optimization in the North Montney, British Columbia” George Voneiff, Peter Bastian, John Jochen and Brad Wolters</td>
<td>Unconventional Resources</td>
<td>Montney</td>
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<td>11:55 a.m.–12:20 p.m.</td>
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<tr>
<td>1:00 p.m.–1:30 p.m.</td>
<td>“Haynesville Shale Productivity and Recoverable Reserves — Shrinking Stimulated Rock Volumes, Fracture Conductivity Losses, Depletion or All of the Above” Marcia Simpson</td>
<td>EXCO Resources</td>
<td>Haynesville</td>
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<td>1:30 p.m.–1:55 p.m.</td>
<td>Discourse</td>
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<tr>
<td>1:55 p.m.–2:25 p.m.</td>
<td>“Multi-Disciplinary Assessment and Development: Learnings From the Fayetteville” Ed Salmon and Josh Froelich</td>
<td>Southwestern Energy</td>
<td>Fayetteville</td>
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<td>2:25 p.m.–2:50 p.m.</td>
<td>Discourse</td>
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<tr>
<td>2:50 p.m.–4:00 p.m.</td>
<td>Open Discussion</td>
<td>Round Table Discussion Wrap Up</td>
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*Denotes presenter other than first author
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<td>Abouelresh, Mohamed</td>
<td>Wed.</td>
<td>2:15 p.m.</td>
<td>Room 103</td>
<td>Emerging Plays II: Which Ones Will Make The Cut?</td>
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<tr>
<td>Adams, Jennifer</td>
<td>Mon.</td>
<td>2:15 p.m.</td>
<td>Ballroom A</td>
<td>New Developments in the Permian Basin</td>
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<td>Aguilera, Roberto</td>
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<td>Advances in Well Testing and Flow Analysis</td>
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<td>Ahmed, Usman</td>
<td>Tue.</td>
<td>4:20 p.m.</td>
<td>Room 008</td>
<td>Interactive Panel: Sweet Spotting – Isn’t This Our Goal?</td>
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<td>Akbarabadi, Mortezia</td>
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<td>Ballroom A</td>
<td>Imaging Dynamic Processes at the Pore Scale</td>
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<td>Akinlolu, Yucel</td>
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<td>2:40 p.m.</td>
<td>Room 001</td>
<td>Reservoir Production Modeling: The Enigmas From Nano-Flow Behavior to EUR</td>
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<td>Al-Duhailan, Mohammed</td>
<td>Mon.</td>
<td>1:50 p.m.</td>
<td>Room 006</td>
<td>Fracture Detection and Evaluation: A Cross-Discipline Challenge</td>
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<td>Al-Awani, Mustafa</td>
<td>Wed.</td>
<td>9:45 a.m.</td>
<td>Room 008</td>
<td>Applied Analytics: Life With Too Many Variables</td>
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<tr>
<td>Albrecht, Tony</td>
<td>Mon.</td>
<td>2:40 p.m.</td>
<td>Room 007</td>
<td>Emerging Plays I: Which Ones Will Make the Cut?</td>
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<td>Amer, Aimen</td>
<td>Tue.</td>
<td>10:45 a.m.</td>
<td>Exhibition Hall, Station A</td>
<td>Evaluating and Modeling Kerogen and Petroleum Fluids I</td>
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<tr>
<td>Arango, Irene</td>
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<td>9:20 a.m.</td>
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<td>Evaluating and Modeling Kerogen and Petroleum Fluids</td>
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<td>Austin, Jack</td>
<td>Tue.</td>
<td>11:15 a.m.</td>
<td>Room 006</td>
<td>Integrated Completion Design: Challenging the Status Quo</td>
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<td>Awada, Ali</td>
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<td>Bailey, Adam</td>
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<td>11:15 a.m.</td>
<td>Room 007</td>
<td>Natural Fractures and Your Completion Design</td>
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<tr>
<td>Bahl, Jason</td>
<td>Mon.</td>
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<td>Mon.</td>
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<td>Progress Update for the Vaca Muerta</td>
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<td>Leong, Chew Yeong</td>
<td>Mon.</td>
<td>3:45 p.m.</td>
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<td>Eagle Ford: The Journey Continues I</td>
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<td>Leung, Juliana</td>
<td>Mon.</td>
<td>2:15 p.m.</td>
<td>Room 008</td>
<td>Geomechanics of Hydraulic Fracturing: A Place Where Geology Meets Engineering</td>
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<td>Li, Fangyu</td>
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<td>4:10 p.m.</td>
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<td>Fracture Detection and Evaluation: A Cross-Discipline Challenge</td>
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<td>Tue.</td>
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<td>Li, Yinghui</td>
<td>Mon.</td>
<td>2:40 p.m.</td>
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<td>Production and Recovery Mechanisms</td>
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<td>Licitra, Diego</td>
<td>Wed.</td>
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<td>Wed.</td>
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<td>Advances in Well Testing and Flow Analysis</td>
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<td>Mon.</td>
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<td>New Developments in the Permian Basin</td>
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<td>1:50 p.m.</td>
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<td>Production Optimization From Stimulation to Soaking: What Works?</td>
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<td>Microseismic: The Quest for Added Value</td>
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<td>Using Performance to Define Completion and Stimulation Strategies</td>
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<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
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<td>Applied Analytics: Life With Too Many Variables</td>
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<td>Studies in Storage and Transport at the Nano-Pore Level</td>
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<td>Wed.</td>
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<td>Production Optimization From Stimulation to Soaking: What Works?</td>
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<td>Natural Fractures and Your Completion Design</td>
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<td>Completion and Stimulation Practices: What To Do With All That Horsepower</td>
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<td>Architectural Analysis of Unconventionals: A Material Science Approach</td>
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<td>Emerging Plays II: Which Ones Will Make The Cut?</td>
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<td>Applied Analytics: Life With Too Many Variables</td>
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<td>Exhibition Hall, Station A</td>
<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
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<td>Roy, Pratantu</td>
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<td>Phase Behavior and Reservoir Production Modeling</td>
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<td>Completion and Stimulation Practices: What To Do With All That Horsepower</td>
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<td>Rock Physics and Multiphase Flow</td>
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<td>Wed.</td>
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<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
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<td>Microseismic and Reservoir Volumes</td>
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<td>Emerging Plays I: Which Ones Will Make the Cut?</td>
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<td>Western U.S. Case Studies: More Upside in the Rockies!</td>
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<td>Evaluating and Modeling Kerogen and Petroleum Fluids</td>
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<td>Evaluating and Modeling Kerogen and Petroleum Fluids I</td>
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<td>Microseismic: The Quest for Added Value</td>
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<td>Mon.</td>
<td>4:35 p.m.</td>
<td>Room 006</td>
<td>Fracture Detection and Evaluation: A Cross-Discipline Challenge</td>
</tr>
<tr>
<td>Turner, Bryan</td>
<td>Wed.</td>
<td>2:15 p.m.</td>
<td>Room 006</td>
<td>Alchemy or Science? Chemostratigraphy for Depositional Environments and Facies</td>
</tr>
<tr>
<td>Ulwand, Mike</td>
<td>Mon.</td>
<td>1:50 p.m.</td>
<td>Room 007</td>
<td>Emerging Plays I: Which Ones Will Make the Cut?</td>
</tr>
<tr>
<td>Urbanic, Ted</td>
<td>Mon.</td>
<td>2:15 p.m.</td>
<td>Room 103</td>
<td>Microseismic: The Quest for Added Value</td>
</tr>
<tr>
<td>Van de Wetering, Nikola</td>
<td>Tue.</td>
<td>3:05 p.m.</td>
<td>Exhibition Hall, Station A</td>
<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
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<tr>
<td>Vassiliades, George</td>
<td>Tue.</td>
<td>11:35 a.m.</td>
<td>Exhibition Hall, Station C</td>
<td>Well Testing and Production Optimization</td>
</tr>
<tr>
<td>Vaughn, Tony</td>
<td>Mon.</td>
<td>9:05 a.m.</td>
<td>Lila Cockrell Theatre</td>
<td>Opening Plenary Session</td>
</tr>
<tr>
<td>Vilcinskas, Alex</td>
<td>Wed.</td>
<td>2:20 p.m.</td>
<td>Room 008</td>
<td>Interactive Panel: Operations and Production Challenges – Planning for Long-Term Production</td>
</tr>
<tr>
<td>Virues, Claudio</td>
<td>Wed.</td>
<td>2:15 p.m.</td>
<td>Ballroom A</td>
<td>Production Optimization From Stimulation to Soaking: What Works?</td>
</tr>
<tr>
<td>Walls, Joel</td>
<td>Tue.</td>
<td>2:15 p.m.</td>
<td>Room 103</td>
<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
</tr>
<tr>
<td>NAME</td>
<td>DAY</td>
<td>TIME</td>
<td>LOCATION</td>
<td>SESSION TITLE</td>
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<tr>
<td>Wang, Dongmei</td>
<td>Wed.</td>
<td>10:45 a.m.</td>
<td>Exhibition Hall, Station C</td>
<td>The Bakken Reloaded</td>
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<tr>
<td>Wang, Haihong</td>
<td>Tue.</td>
<td>1:50 p.m.</td>
<td>Room 008</td>
<td>Characterization of Facies Through Rock Physics: Petrophysics and Seismic Data</td>
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<tr>
<td>Warpinski, Norm</td>
<td>Tue.</td>
<td>3:50 p.m.</td>
<td>Room 008</td>
<td>Interactive Panel: Sweet Spotting – Isn’t This Our Goal?</td>
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<tr>
<td>Washburn, Kathryn</td>
<td>Tue.</td>
<td>4:10 p.m.</td>
<td>Room 103</td>
<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
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<tr>
<td>Wehrer, Matthew</td>
<td>Tue.</td>
<td>3:30 p.m.</td>
<td>Exhibition Hall, Station B</td>
<td>Eagle Ford: The Journey Continues</td>
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<tr>
<td>Welch, William</td>
<td>Tue.</td>
<td>2:15 p.m.</td>
<td>Room 001</td>
<td>Reservoir Production Modeling: The Enigmas From Nano-Flow Behavior to EUR</td>
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<tr>
<td>Welker, Carrie</td>
<td>Tue.</td>
<td>11:10 a.m.</td>
<td>Exhibition Hall, Station A</td>
<td>Evaluating and Modeling Kerogen and Petroleum Fluids I</td>
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<tr>
<td>Wilcox, Craig</td>
<td>Tue.</td>
<td>4:10 p.m.</td>
<td>Room 007</td>
<td>Forecasting Production in Unconventional Reservoirs: Getting the Real EUR to</td>
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<td>to the Podium</td>
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<tr>
<td>Wiley, Livia</td>
<td>Mon.</td>
<td>3:30 p.m.</td>
<td>Exhibition Hall, Station B</td>
<td>Surface and Midstream</td>
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<tr>
<td>Williams-Kovacs, Jesse</td>
<td>Tue.</td>
<td>3:45 p.m.</td>
<td>Room 001</td>
<td>Reservoir Production Modeling: The Enigmas From Nano-Flow Behavior to EUR</td>
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<tr>
<td>Wright, Milly</td>
<td>Tue.</td>
<td>2:15 p.m.</td>
<td>Exhibition Hall, Station A</td>
<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
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<tr>
<td>Wright, Milly</td>
<td>Wed.</td>
<td>2:40 p.m.</td>
<td>Room 006</td>
<td>Alchemy or Science? Chemostratigraphy for Depositional Environments and</td>
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<tr>
<td>Wu, Tengfei</td>
<td>Tue.</td>
<td>3:30 p.m.</td>
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<td>Characterization of Shales: Chemostratigraphy and Geochemistry</td>
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<tr>
<td>Xu, Hongwu</td>
<td>Tue.</td>
<td>3:45 p.m.</td>
<td>Room 103</td>
<td>Techniques for Imaging Unconventionals at Multiple Scales</td>
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<td>Yaich, Eyes</td>
<td>Wed.</td>
<td>2:40 p.m.</td>
<td>Ballroom A</td>
<td>Production Optimization From Stimulation to Soaking: What Works?</td>
</tr>
<tr>
<td>Yang, Byongcheon</td>
<td>Mon.</td>
<td>3:45 p.m.</td>
<td>Room 007</td>
<td>Emerging Plays I: Which Ones Will Make the Cut?</td>
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<tr>
<td>Ye, Hongzhan</td>
<td>Tue.</td>
<td>4:35 p.m.</td>
<td>Ballroom B</td>
<td>Reservoir Characterization and Mapping the Ethereal Sweetspot</td>
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<tr>
<td>Yu, Gang</td>
<td>Tue.</td>
<td>2:40 p.m.</td>
<td>Ballroom B</td>
<td>Reservoir Characterization and Mapping the Ethereal Sweetspot</td>
</tr>
<tr>
<td>Yu, Xin</td>
<td>Wed.</td>
<td>8:55 a.m.</td>
<td>Room 007</td>
<td>Stimulation Case Studies: What Works and What Doesn’t?</td>
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<tr>
<td>Yu, Yang</td>
<td>Tue.</td>
<td>3:55 p.m.</td>
<td>Exhibition Hall, Station B</td>
<td>Eagle Ford: The Journey Continues</td>
</tr>
<tr>
<td>Zakhour, Nancy</td>
<td>Mon.</td>
<td>11:15 a.m.</td>
<td>Room 103</td>
<td>Microseismic and Reservoir Volumes</td>
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<tr>
<td>Zhai, Zongyu</td>
<td>Wed.</td>
<td>2:40 p.m.</td>
<td>Room 007</td>
<td>Using Performance to Define Completion and Stimulation Strategies</td>
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<tr>
<td>Zhang, Yusheng</td>
<td>Tue.</td>
<td>2:15 p.m.</td>
<td>Exhibition Hall, Station B</td>
<td>China Case Studies</td>
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<tr>
<td>Zhang, Zhishuai</td>
<td>Tue.</td>
<td>3:30 p.m.</td>
<td>Exhibition Hall, Station C</td>
<td>Microseismic I: Does It Really Add Value?</td>
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<td>Zhou, Jing</td>
<td>Tue.</td>
<td>11:40 a.m.</td>
<td>Ballroom B</td>
<td>Modeling Well Spacing and Multiscale Transport</td>
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<tr>
<td>Zou, Fuge</td>
<td>Tue.</td>
<td>11:15 a.m.</td>
<td>Room 008</td>
<td>Multidisciplinary Integration: Some Surprising Outcomes</td>
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The Core Exhibits

Take time during the conference to visit the Core Exhibition in the Exhibition Hall. View core samples and benefit from presentations and materials displaying the analytical methods and results used to best understand reservoirs.

Live Presentations

Schedule: (as of 1 July 2015)

Monday
4:00 p.m.................Core, Facies Analysis, and Rock-Types — Powder River Basin, Wyoming – Jess Pritchard, Devon

Tuesday
4:00 p.m.................Insights From a Wolfcamp Shale SEM Study — Southern Midland Basin, Texas – Carrie Johnson, Devon

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## Short Courses

### Pre-Conference Short Course 1
**Geomechanics for Completion Optimization in Unconventionals: From Characterization to Monitoring**  
*American Association of Petroleum Geologists (AAPG)*

- **Day:** Saturday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 001B  
- **Instructor:** Neal Nagel and Marisela Sanchez-Nagel (OilField Geomechanics LLC, Houston, Texas)  
- **Fee:** $895  
- **Includes:** Digital course notes and refreshments  
- **Content:** .75 CEU  
- **Limit:** 50 people

### Pre-Conference Short Course 2
**Seismic, Petrophysical and Geomechanical Characterization of Organic-Rich Shale Reservoirs**  
*Society of Exploration Geophysicists (SEG)*

**CANCELED**

### Pre-Conference Short Course 3
**Discovery and Recovery Thinking in Shales**  
*Society of Petroleum Engineers (SPE)*

- **Days:** Saturday–Sunday  
- **Times:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 004  
- **Instructor:** Creties Jenkins (Rose and Associates, Plano, Texas)  
- **Fees:** Member (SPE/AAPG/SEG), $1,400; Nonmember $1,800  
- **Includes:** Digital course notes and refreshments  
- **Limit:** 30 people

### Pre-Conference Short Course 4
**Modern Production Data Analysis for Unconventional Reservoirs**  
*Society of Petroleum Engineers (SPE)*

- **Days:** Saturday–Sunday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 005  
- **Instructor:** Dave Anderson (IHS/Fekete, Calgary, AB, Canada)  
- **Fee:** Member (SPE/AAPG/SEG), $1,400; Nonmember $1,800  
- **Includes:** Digital course notes and refreshments  
- **Limit:** 30 people

### Pre-Conference Short Course 5
**Hydraulic Fracturing – Design and Treatment**  
*Society of Petroleum Engineers (SPE)*

- **Days:** Saturday–Sunday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 202 A/B  
- **Instructor:** Michael B. Smith (NSI Technologies, Tulsa, Oklahoma)  
- **Fee:** Member (SPE/AAPG/SEG), $1,400; Nonmember $1,800  
- **Includes:** Digital course notes and refreshments  
- **Limit:** 20 people

### Pre-Conference Short Course 6
**Assessment, Forecasting and Decision-Making in Unconventional Resource Plays**  
*American Association of Petroleum Geologists (AAPG)*

- **Days:** Saturday–Sunday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 001A  
- **Instructor:** William Haskett (Decision Strategies, Houston, Texas)  
- **Fee:** $1,195  
- **Includes:** Digital course notes and refreshments  
- **Content:** 1.5 CEU  
- **Limit:** 50 people

### Pre-Conference Short Course 7
**Introductory Geochemistry for Condensate-Rich Shales and Tight Oil**  
*American Association of Petroleum Geologists (AAPG)*

- **Day:** Sunday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 001B  
- **Instructor:** Christopher D. Laughrey (Consultant, Golden, Colorado)  
- **Fee:** $895  
- **Includes:** Digital course notes and refreshments  
- **Content:** .75 CEU  
- **Limit:** 50 people

### Pre-Conference Short Course 8
**Microseismic Imaging of Hydraulic Fracturing: Improved Engineering of Unconventional Shale Reservoirs**  
*Society of Exploration Geophysicists (SEG)*

- **Day:** Sunday  
- **Time:** 8:00 a.m.–5:00 p.m.  
- **Location:** Room 008  
- **Instructor:** Shawn Maxwell (IMaGE-Itasca Microseismic and Geomechanics Evaluation, Calgary, AB, Canada)  
- **Fee:** $695  
- **Includes:** Digital course notes, continental breakfast and refreshments  
- **Limit:** 75 people

### Pre-Conference Short Course 9
**Publish, Not Perish: An Introduction to Scientific and Technical Publication**  
**CANCELED**

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Field Trips

Pre-Conference Field Trip 1
The Mid-Paleozoic Exshaw/Banff Unconventional Petroleum System, Alberta: Correlative of Bakken Tight-Oil Play in Williston Basin
Sponsored by: Subcommission on Carboniferous Stratigraphy
CANCELED

Pre-Conference Field Trip 2
Eagle Ford – An Unconventional Mudstone Reservoir
Sponsored by: The Petroleum Technology Transfer Council (PTTC)
Days and Times: Saturday, 2:00 p.m.–Sunday, 6:00 p.m.
Leaders: Dr. Art Donovan (BP Global Exploration)
Fee: $550
Includes: Ground transportation, one night lodging (based on single occupancy), lunch (Sunday), refreshments and guidebook
Location: Departs from and returns to Henry B. Gonzalez Convention Center
Limit: 28 people

Post-Conference Field Trip 3
Hidden Valley Fault Zone, Canyon Lake Gorge
Sponsored by: The Petroleum Technology Transfer Council (PTTC)
CANCELED

Post-Conference Field Trip 4
Paleozoic Stratigraphy and Reservoirs, Permian Basin – Guadalupe, Hueco, and Franklin Mountains, West Texas and New Mexico
Sponsored by: The Petroleum Technology Transfer Council (PTTC), Rocky Mountain Region
Days and Times: Thursday, 7:30 a.m.–Sunday, 3:00 p.m.
Leaders: Dr. Rick Sarg (Colorado School of Mines, Golden, Colorado)
Fee: $1,600
Includes: Ground transportation, four nights lodging (based on single occupancy), lunch (Thursday, Friday and Saturday), refreshments and guidebook
Location: Departs from and returns to El Paso Airport, El Paso, Texas
Limit: 30 people

Post-Conference Field Trip 5
Appalachian Basin Gas Shale
Sponsored by: The Petroleum Technology Transfer Council (PTTC)
CANCELED

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Exhibition Highlights

Exhibition Hours

Location: Exhibition Halls A & B

Monday ........................................... 10:00 a.m.–7:00 p.m.
Tuesday ......................................... 8:00 a.m.–6:00 p.m.
Wednesday ..................................... 8:00 a.m.–1:00 p.m.

Breakfast Bites With Exhibitors

Enjoy a break after the Opening Plenary and grab a quick snack with the exhibitors as URTeC opens the Exhibition Hall.

Monday ........................................... 10:00 a.m.–10:40 a.m.

Refreshment Breaks

Grab a beverage with the exhibitors during the breaks in the mornings and afternoons.

Monday ........................................... 3:05 p.m.–3:45 p.m.
Tuesday .................................... 10:00 a.m.–10:40 a.m. & 3:05 p.m.–3:45 p.m.
Wednesday .................................. 10:10 a.m.–10:50 a.m.

Opening Reception

Enjoy a drink and hors d’oeuvres while visiting with exhibitors.

Monday ........................................... 5:00 p.m.–7:00 p.m.

Networking Reception

Relax with a drink and light snacks while you connect with URTeC Exhibitors.

Tuesday ........................................... 5:00 p.m.–6:00 p.m.

ePapers

In addition to the Oral Presentations, URTeC features ePapers which are an electronic version of a traditional oral presentation in a PowerPoint format available during the conference. Listen to live ePaper presentations or visit the On-Demand station conveniently located inside the Exhibition Hall.

ePaper Presentation Hours:

Monday ........................................... 10:20 a.m.–11:35 a.m. & 1:30 p.m.–4:45 p.m.
Tuesday ........................................... 10:20 a.m.–12:00 p.m. & 1:50 p.m.–4:45 p.m.
Wednesday .................................... 8:30 a.m.–11:35 p.m.

ePapers On-Demand Hours:

Monday ........................................... 10:00 a.m.–5:10 p.m.
Tuesday ........................................... 10:00 a.m.–5:10 p.m.
Wednesday .................................... 8:00 a.m.–12:00 p.m.

Wi-Fi Hot Spot

Join colleagues in the Wi-Fi Hot Spot and relax and enjoy free internet access. You may access the internet from the comfortable lounge area at no charge.

URTeC 2016

Visit booth 847 and start planning to participate at URTeC 2016. Whether you attend, exhibit and/or sponsor at the fourth annual Unconventional Resources Technology Conference, you’ll want to grab materials and visit with URTeC representatives.

Exhibitor Listing (as of 26 June 2015)

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**Exhibition Hours**

**Location:** Exhibition Halls A & B

- **Monday:** 10:00 a.m.–7:00 p.m.
- **Tuesday:** 8:00 a.m.–6:00 p.m.
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United States
Phone: +1 832 554 4301
Contact: Sara Davis
Email: sadasiv@seimaxtech.com
Website: www.seimaxtech.com

SEIMAX provides 2-D and 3-D land and marine seismic data processing services including pre-stack time, depth and RTM/WEM imaging; and pre- and post-stack attributes for amplitude, frequency and resolution.

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Phone: +1 832 590 5100
Contact: Kaitlyn Hillieshiem
Email: khillieshiem@seismicexchange.com
Website: www.seismicexchange.com

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Phone: +1 713 881 8900
Contact: Liza Yellott
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Contact: Sennay Tesfamicael
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Fax: +1 972 952 9435
Email: service@spe.org
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Tulsa, Oklahoma 74115
United States
Phone: +1 918 740 7435
Fax: +1 918 933 9653
Contact: Shelley Faurot
Email: sfaurot2@spectrumtracer.com
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Fax: +1 918 933 9653
Contact: Shelley Faurot
Email: sfaurot2@spectrumtracer.com
Website: spectrumtracer.com

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Email: d.waples@siriusxgc.com
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Website: summitgeophysical.com
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United States
Phone: +1 337 322 0975
Website: www.swireos.com

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Phone: +1 832 508 2995
Contact: Hilliard Peavy
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Email: wsouliere@teledyne.com
Website: www.isco.com

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United States
Phone: +1 832 403 0533
Contact: Carrie Branch
Email: carrie.branch@tendeka.com
Website: www.tendeka.com

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Items found during the conference should be turned in to the Attendee Services Supervisor. If your lost item has not been turned in you may leave information on how you want to be contacted should the item be found.

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Location: West Registration, Street Level  
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A luggage check is available at a cost of $2.00 per item checked.

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

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Location: West Registration, Street Level  
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Sunday...............7:30 a.m.–5:00 p.m.  
Monday.................7:00 a.m.–6:30 p.m.  
Tuesday..............7:00 a.m.–5:30 p.m.  
Wednesday........7:00 a.m.–1:00 p.m.

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Location: Room 203A  
The Press Office is a lounge/working area for editorial personnel covering the conference. Press releases and other announcements for the media are welcome to be left here.  
Monday..............8:00 a.m.–5:00 p.m.  
Tuesday...............8:00 a.m.–5:00 p.m.  
Wednesday........8:00 a.m.–12:00 p.m.

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Sunday ................. 8:00 a.m.–7:00 p.m.
Monday ................. 9:00 a.m.–7:00 p.m.
Tuesday ................. 8:00 a.m.–6:00 p.m.
Wednesday .............. 8:00 a.m.–6:00 p.m.

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San Antonio, TX 78216
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http://www.sanantonio.gov/sat

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Event flat rate: $11.00
Across street from main entrance to Convention Center and Lila Cockrell Theatre

Riverbend Garage (+1 887 717 0004)
Alamo & Market Streets
Daily rates: 0-2 hours/$10.00; 2-4 hours/$12.00; 4-24 hours/$15.00
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<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Address</th>
<th>Telephone #</th>
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</thead>
<tbody>
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<td>Crockett Hotel</td>
<td>320 Bonham, San Antonio, TX 78205</td>
<td>+1 210 225 6500</td>
</tr>
<tr>
<td>Grand Hyatt</td>
<td>600 E Market Street, San Antonio, TX 78205</td>
<td>+1 210 224 1234</td>
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<tr>
<td>Hilton Palacio del Rio</td>
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<td>+1 210 222 1400</td>
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<td>Hotel Contessa</td>
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<td>+1 210 229 9222</td>
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<tr>
<td>Hyatt Regency Riverwalk</td>
<td>123 Losoya Street, San Antonio, TX 78205</td>
<td>+1 210 222 1234</td>
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<tr>
<td>La Quinta Riverwalk</td>
<td>303 Blum Street, San Antonio, TX 78205</td>
<td>+1 210 222 9181</td>
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<tr>
<td>Menger Hotel</td>
<td>204 Alamo Plaza, San Antonio, TX 78205</td>
<td>+1 210 223 4361</td>
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<tr>
<td>The Emily Morgan Hotel – A Doubletree by Hilton</td>
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