



The Integrated Event for Oil & Gas Asset Teams

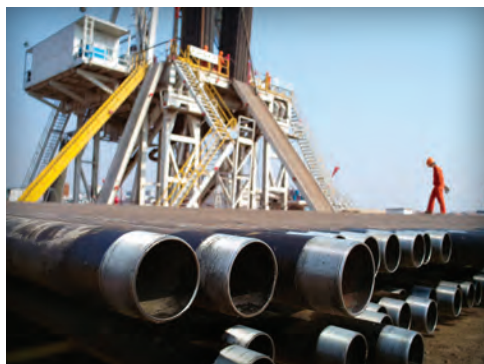
# UNCONVENTIONAL

## RESOURCES TECHNOLOGY CONFERENCE

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12–14 August 2013

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# ENRICHED

A New Shale Resource Perspective  
with Full Azimuth Imaging and Interpretation

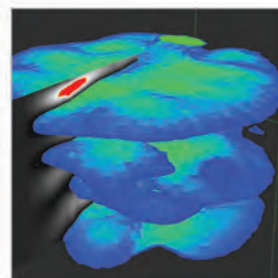


## MAKING SURFACE SEISMIC DATA MORE RELEVANT FOR SHALE RESOURCE PLAYS

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Learn More at Booth 400 at URTeC in Denver



A full azimuth angle  
gather from the Barnett  
Shale visualized in 3D

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# UNCONVENTIONAL

## RESOURCES TECHNOLOGY CONFERENCE

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*Key petroleum disciplines and technologies  
together for one integrated event.*



URTeC is fueled by:



#### Society of Petroleum Engineers

SPE serves more than 104,000 members in 123 countries. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, conferences, workshops and forums.

#### American Association of Petroleum Geologists

AAPG is the largest organization for the advancement of geosciences worldwide, fostering scientific research and cutting-edge technology. The Association serves more than 38,000 members in 115 countries.

#### Society of Exploration Geophysicists

SEG promotes the science of exploration geophysics and related fields, including applications and research, fosters the common scientific interests of geophysicists, and maintains a high professional standing among its members. The Society, which has members in 138 countries, fulfills its mission through its publications, conferences, forums, website, and educational opportunities.

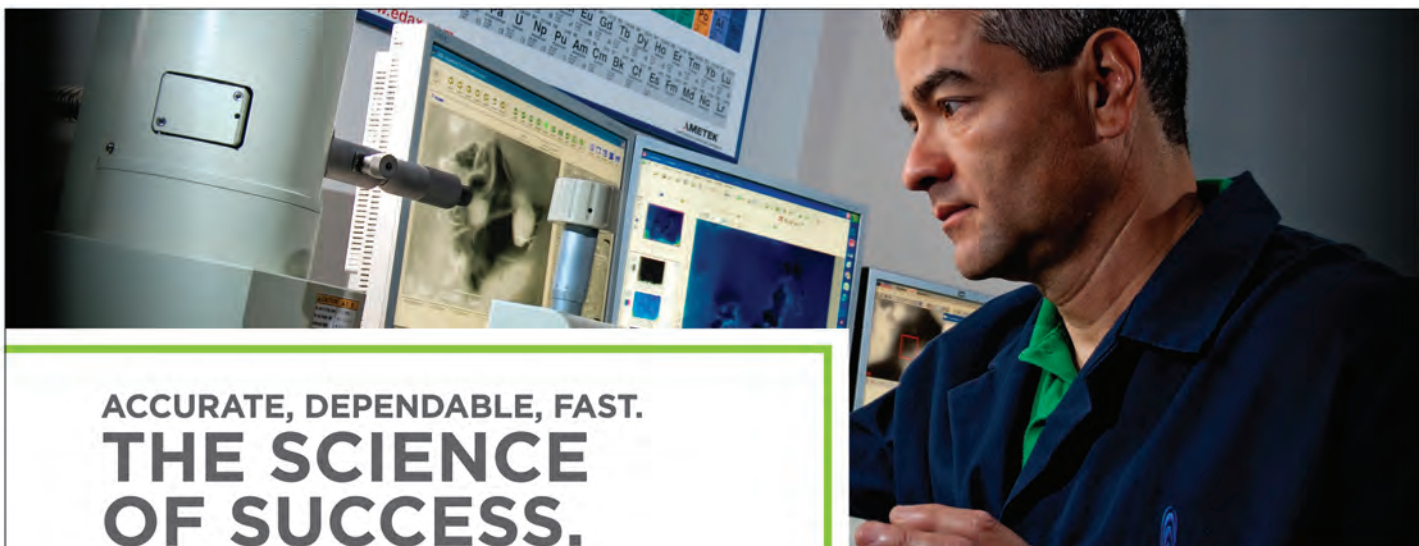


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Customer samples and results remain confidential, and are maintained and protected through a secure system outside of Chesapeake's network.

**Let's Talk. 405-935-8124**  
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**RESERVOIR  
TECHNOLOGY  
CENTER**





Dear Colleagues,

On behalf of the Unconventional Resources Technology Conference (URTeC), its sponsoring organizations and Technical Program Committee, we welcome you to this breakthrough inter-society undertaking focused on the latest technology applied within an asset team environment.

The three largest upstream oil and gas societies – Society of Petroleum Engineers (SPE), American Association of Petroleum Geologists (AAPG), and Society of Exploration Geophysicists (SEG) – have joined forces to bring industry professionals this peer-reviewed, science-based event that will feature topics most relevant to today's scientists, engineers and businesspeople in the oil and gas industry.

The dynamic Opening Plenary Session — Unconventional Resources: Breakthrough Integration Changes Everything — will explore the foundational scientific, technical and business practices that, when leveraged by innovative integration in a multidisciplinary environment, differentially “moves the needle” across the value chain of unconventional resource identification, assessment and monetization. Moderated by Scott W. Tinker, Director, Bureau of Economic Geology and State Geologist of Texas, the panelists include:

- Scott D. Sheffield, Chief Executive Officer, Pioneer Natural Resources
- M.W. Scoggins, President, Colorado School of Mines
- Vello Kuuskraa, President, Advanced Resources International
- Dave Hager, Chief Operating Officer, Devon Energy Corporation

In addition to the world-class conference, the exhibition will showcase the latest technologies; you'll experience a Core Museum, meet colleagues and friends at the networking receptions and view ePapers with shortened live presentations.

We are glad you are here and thank you for attending the 2013 URTeC.

Sincerely,

**Luis Baez**, *BG Group*

**Ken Beeney**, *Geophysical Consultant*

**Steve Sonnenberg**, *Colorado School of Mines*

Technical Program Committee Co-Chairs

# NEW VENTURES LEAD TO GREAT OPPORTUNITIES



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## Technical Program Committee Co-Chairs and Theme Chairs

Luis Baez  
BG GroupKen Beeney  
Geophysical ConsultantSteve Sonnenberg  
Colorado School of Mines

## Technical Program Committee and Theme Chairs

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HilcorpRay Barrett  
BPPaul Basinski  
Ardent ExplorationTom Collier  
Concho ResourcesStuart Cox  
Marathon OilJoe Frantz  
Range ResourcesRob Fulks  
WeatherfordMatt Honarpour  
Hess CorporationMichael Kendrick  
Devon Energy CorporationShawn Maxwell  
SchlumbergerTom McCoy  
Cimarex Energy Co.Mike Mullen  
Stim PetrophysicsJohn O'Brien  
AnadarkoTerri Olson  
EOG ResourcesRandall (Randy) Pharis  
XTO Energy Inc., An ExxonMobil SubsidiaryManika Prasad  
Colorado School of MinesR. Randy Ray  
R3 ExplorationScott Reeves  
Gaffney ClineAndrea Reynolds  
Shell Upstream Americas  
UnconventionalsSkip Rhodes  
Pioneer Natural ResourcesRandahl D. Roadifer  
ConocoPhillipsMukul Sharma  
University of TexasMohamed Soliman  
Texas Tech UniversityMel Sorrell  
Exco ResourcesKevin Stephenson  
Common ResourcesBruce Alastair Tocher  
StatoilAzra N. Tutuncu  
Colorado School of MinesDoug Valleau  
Hess Corporation

## Theme Chairs

Jerry Boak  
Colorado School of MinesJohn Curtis  
Colorado School of MinesKen Williams  
HalliburtonMike Lewan  
USGSSteve Laubach  
Bureau of Economic  
Geology

## Executive Advisory Council

Brad Berg .....	Reservoir Engineering Manager for NA Onshore Exploration .....	Anadarko Petroleum Corporation
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Melanie Westergaard .....	Geoscience Technical Development Advisor .....	Encana Oil & Gas (USA) Inc.

# PIONEER

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## NATURAL RESOURCES

Pioneer is proud to support  
the Unconventional Resources  
Technology Conference



Scott Sheffield  
Chairman & CEO  
*Plenary Session Panel*



Tom Spalding  
VP, Geoscience  
*Interactive Panel*



Gervasio Barzola  
VP, Subsurface & Development  
*Luncheon Speaker*

Pioneer also has employees presenting 22 technical papers on a range of topics that illustrate our current knowledge of unconventional resource plays.

### **Join us in our hospitality suite**

Tuesday, August 13, 5:30pm - 8:30pm

Top Floor of Euclid Hall Bar and Kitchen, 1317 14th St., Downtown Denver

Network over cocktails and light hors d'oeuvres



**Saturday, 10 August**

12:00 p.m.–5:00 p.m.	Registration	Lobby F
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**Sunday, 11 August**

8:00 a.m.–5:00 p.m.	Registration	Lobby F
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**Monday, 12 August**

7:00 a.m.–6:30 p.m.	Registration	Lobby F
8:30 a.m.–12:00 p.m.	Opening Plenary Session: Unconventional Resources: Breakthrough Integration Changes Everything	Mile High Ballroom 1 & 2
10:00 a.m.–7:00 p.m.	Exhibition	Exhibition Halls D/E/F
10:10 a.m.–10:50 a.m.	Breakfast Bites with Exhibitors	Exhibition Hall
12:05 p.m.–1:15 p.m.	Topical Luncheon: Impact of Unconventionals in the U.S. Energy Future	Rooms 405/406/407
12:05 p.m.–1:15 p.m.	Topical Luncheon: When the Rubber Hits the Road — Where Does the Proppant Go?	Mile High Ballroom 4 D/E/F
12:05 p.m.–1:15 p.m.	Topical Luncheon: New Frontiers in Modeling Unconventional Reservoirs	Mile High Ballroom 4 A/B/C
1:25 p.m.–5:05 p.m.	Oral Sessions	Four Seasons Ballroom, 200s, 400s, 500s
1:30 p.m.–5:00 p.m.	ePapers	Exhibition Hall
3:10 p.m.–3:50 p.m.	Refreshment Break	Exhibition Hall
5:00 p.m.–7:00 p.m.	Opening Reception	Exhibition Hall

**Tuesday, 13 August**

6:30 a.m.–5:30 p.m.	Registration	Lobby F
7:00 a.m.–8:15 a.m.	Topical Breakfast: Oilfield Services for Unconventional Resources I	Rooms 405/406/407
7:00 a.m.–8:15 a.m.	Topical Breakfast: A Scorecard for Ranking Unconventional Plays <b>SOLD OUT</b>	Mile High Ballroom 4 D/E/F
7:00 a.m.–8:15 a.m.	Topical Breakfast: New Methods for Unconventional Well Performance Prediction	Mile High Ballroom 4 A/B/C
8:25 a.m.–10:10 a.m.	Interactive Panel Session: Nimble Independents: “Moving the Needle” with Innovation and Execution Excellence	Room 205/207
8:25 a.m.–12:05 p.m.	Oral Sessions	Four Seasons Ballroom, 200s, 400s, 500s
9:00 a.m.–6:00 p.m.	Exhibition	Exhibition Halls D/E/F
9:00 a.m.–12:00 p.m.	ePapers	Exhibition Hall
10:10 a.m.–10:50 a.m.	Refreshment Break	Exhibition Hall
10:50 a.m.–12:05 p.m.	Interactive Panel Session: Technologies that May Transform the Future	Room 205/207
12:05 p.m.–1:15 p.m.	Topical Luncheon: Eagle Ford of South Texas Well Spacing, the Multibillion Dollar Question	Mile High Ballroom 4 A/B/C
12:05 p.m.–1:15 p.m.	Topical Luncheon: Unconventional Plays: It's All About the Petroleum System	Mile High Ballroom 4 D/E/F
1:25 p.m.–3:10 p.m.	Interactive Panel Session: Making it Happen in the Field: Converting Technology into Dollars	Room 205/207
1:25 p.m.–5:05 p.m.	Oral Sessions	Four Seasons Ballroom, 200s, 400s, 500s
1:30 p.m.–5:00 p.m.	ePapers	Exhibition Hall
3:10 p.m.–3:50 p.m.	Refreshment Break	Exhibition Hall
3:50 p.m.–5:05 p.m.	Interactive Panel Session: Sustainability, Job Creation and Public Image	Room 205/207
5:00 p.m.–6:00 p.m.	Networking Reception	Exhibition Hall

**Wednesday, 14 August**

6:30 a.m. – 2:00 p.m.	Registration	Lobby F
7:00 a.m.–8:15 a.m.	Topical Breakfast: Oilfield Services for Unconventional Resources II	Rooms 405/406/407
7:00 a.m.–8:15 a.m.	Topical Breakfast: Trends in North American Unconventional Resources A&D	Mile High Ballroom 4 A/B/C
7:00 a.m.–8:15 a.m.	Topical Breakfast: Geotechnical Insights into the Bakken	Mile High Ballroom 4 D/E/F
8:25 a.m.–10:10 a.m.	Interactive Panel Session: Transportation and Processing Capacity of Market Infrastructure in Emerging Plays	Room 205/207
8:25 a.m.–12:05 p.m.	Oral Sessions	Four Seasons Ballroom, 200s, 400s, 500s
9:00 a.m.–2:00 p.m.	Exhibition	Exhibition Halls D/E/F
9:00 a.m.–12:00 p.m.	ePapers	Exhibition Hall
10:10 a.m.–10:50 a.m.	Refreshment Break	Exhibition Hall
10:50 a.m.–12:05 p.m.	Scott W. Tinker Panel: Bottom Up Integrated Shale Gas Reserve and Production Forecasting...	Room 205/207
1:30 p.m.–4:30 p.m.	Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development	Room 505/506/507
1:25 p.m.–5:05 p.m.	Oral Sessions	Four Seasons Ballroom, 200s, 400s, 500s
3:10 p.m.–3:25 p.m.	Refreshment Break	Mile High Ballroom Lobby



A ticket is required for admission.

## Opening Plenary Session

### Unconventional Resources: Breakthrough Integration Changes Everything

**Date:** Monday, 12 August  
**Time:** 8:30 a.m. – 12:00 p.m.  
**Location:** Mile High Ballroom 1 & 2  
**Fee:** Included with registration  
**Moderator:** Scott W. Tinker, Director, Bureau of Economic Geology and State Geologist of Texas

The kick-off Plenary Session for the Unconventional Resources Technology Conference (URTeC) will explore the foundational scientific, technical, and business technologies and practices that, when leveraged by innovative integration in a multidisciplinary environment, differentially “moves the needle” across the value chain of unconventional resource identification, assessment and monetization.

The plenary will host an exceptional panel of subject matter experts from industry and academia — one that approaches the breadth and diversity of our combined societies (SPE/AAPG/SEG) — that will frame-up the opportunities as well the issues and challenges to be addressed before returns can be maximized in this new integrated space.

Panelists include:

- **Scott D. Sheffield**, Chief Executive Officer, Pioneer Natural Resources, Building Success By Targeting Unconventional Resources
- **M.W. Scoggins**, President, Colorado School of Mines, Bridging the Gap Between Academia and Industry
- **Vello Kuuskraa**, President and Chairman of the Board, Advanced Resources International, What We Know, Think We Know, and Know We Don't Know — How Do We Move Up That Ladder
- **Dave Hager**, Chief Operating Officer, Devon Energy Corporation, Lessons-Learned in Value Creation through Integration

The floor will then be opened to the audience to further explore the insights, opportunities and issues identified by the panel. The Plenary Session will be a great opportunity to engage with this extraordinary panel, share your thoughts and ideas, and learn from the collective feedback from colleagues that literally span the technical breadth of unconventional resources.

Lastly, this session will set the stage for the URTeC technical program that will explore in detail how multidisciplinary integration can lead to state-of-the-art breakthroughs, pragmatic prospecting and assessment tools, and optimized development and value creation.

## Interactive Panels

### Nimble Independents: “Moving the Needle” with Innovation and Execution Excellence

**Date:** Tuesday, 13 August  
**Time:** 8:25 a.m.–10:10 a.m.  
**Location:** Room 205/207  
**Fee:** Included with registration  
**Moderator:** Jeff Meisenhelder, Vice President of Unconventional Resource Technologies, Schlumberger

Agile independents continue to be first-order drivers behind the velocity at which industry is climbing the unconventional resources learning curve and new chapters to this “playbook” are being added every day. This accomplished panel will share insights and lessons learned — how they’ve created and then weaved their unique matrix of multidisciplinary integration, fit-for-purpose technologies, benchmark best practices, and boots-on-the ground execution to lead them to Tier 1 results.

Panelists:

- **J. Ross Craft**, President & Chief Executive Officer, Approach Resources, Inc.
- **Peter Hill**, Executive Chairman, Triangle Petroleum Corporation
- **Mark K. Castell**, Vice President-Oklahoma Assets, PetroQuest Energy, Inc.

### Technologies that May Transform the Future

**Date:** Tuesday, 13 August  
**Time:** 10:50 a.m.–12:05 p.m.  
**Location:** Room 205/207  
**Fee:** Included with registration  
**Moderator:** Mark Zoback, Benjamin M. Page Professor, Stanford University

This distinguished panel will provide an update on technologies ranging from what’s being used today that hold the promise for greater returns to exciting “What’s the NEXT BIG thing” technologies on the potential horizon.

Panelists:

- **Mike Mullen**, President, Stimulation Petrophysics
- **Doug Valleau**, Director, Unconventional Resources Technology, Hess
- **Greg Leveille**, General Manager, Unconventional Resources, ConocoPhillips

### Making it Happen in the Field: Converting Technology into Dollars

**Date:** Tuesday, 13 August  
**Time:** 1:25 p.m. – 3:10 p.m.  
**Location:** Room 205/207  
**Fee:** Included with registration  
**Moderator:** Steve Holditch, Samuel Roberts Noble Chairman, and Texas A&M University Petroleum Engineering Professor



This panel will explore how top tier organizations lead the way by rapidly improving and deploying unconventional resource technologies and incorporating new learnings across their organizations.

Panelists:

- **Rick Muncrief**, Senior Vice President, Operations and Resource Development, Continental Resources Inc.
- **Dennis Degner**, Director of Operations, South Marcellus Shale Division, Range Resources-Appalachia, LLC
- **Tom Spalding**, Vice President, Horizontal Permian, Pioneer Natural Resources

### Sustainability, Job Creation and Public Image

**Date:** Tuesday, 13 August

**Time:** 3:50 p.m. – 5:05 p.m.

**Location:** Room 205/207

**Fee:** Included with registration

**Moderator:** John Martin, Principal Consultant, JP Martin Energy Strategy, LLC

This panel will discuss this advance in recovery techniques, its impact on job creation and tackle the difficult question, “We have advanced the state of the art, but are we implementing these technologies responsibly?”

Panelists:

- **Lynn D. Helms**, Director, Department of Mineral Resources, North Dakota Industrial Commission
- **William F. Whitsitt**, Executive Vice President, Public Affairs, Devon Energy Corporation
- **Mark Guest**, Chief Executive Officer, Oilcareers.com

### Transportation and Processing Capacity of Market Infrastructure in Emerging Plays

**Date:** Wednesday, 14 August

**Time:** 8:25 a.m. – 10:10 a.m.

**Location:** Room 205/207

**Fee:** Included with registration

**Moderator:** Luis Baez, Technical Director-Unconventional Resources, BG Group

This panel will examine the state of transportation infrastructure today, and its future outlook as new and innovative plans are brought to bear to improve the processing and transportation of crude oil, natural gas and natural gas liquids.

Panelists:

- **Burt Jones**, Vice President, USA Midstream, EnCana Oil & Gas (USA) Inc.
- **Elizabeth Spomer**, Senior Vice President, Business Development, BG Group
- **David Barth**, Senior Director, Business Development, DCP Midstream

### Scott Tinker Panel: Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales

**Date:** Wednesday, 14 August

**Time:** 10:50 a.m.–12:05 p.m.

**Location:** Room 205/207

**Fee:** Included with registration

**Moderator:** Scott W. Tinker, Director, Bureau of Economic Geology and State Geologist of Texas

A study of the reserve and production potential of three U.S. shale basins — Barnett, Fayetteville and Haynesville—was conducted by the Bureau of Economic Geology (BEG) at The University of Texas at Austin. A similar approach is ongoing in the Marcellus. The study, funded by the Alfred P. Sloan Foundation, integrates engineering, geology, and economics into a model that allows for scenario testing on the basis of an array of technical and economic parameters.

Panelists:

- **Scott Tinker**, Director, Bureau of Economic Geology and State Geologist of Texas
- **Katie Smye**, Postdoctoral Fellow, The University of Texas at Austin
- **Svetlana Ikonnikova**, Research Associate/Energy Economist, Bureau of Economic Geology, The University of Texas at Austin
- **John Browning**, Senior Research Fellow, Bureau of Economic Geology, The University of Texas at Austin
- **Gurcan Gulen**, Research Associate, Bureau of Economic Geology, The University of Texas at Austin

### Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development

**Date:** Wednesday, 14 August

**Time:** 1:25 p.m.–4:30 p.m.

**Location:** Room 505/506/507

**Fee:** Included with registration

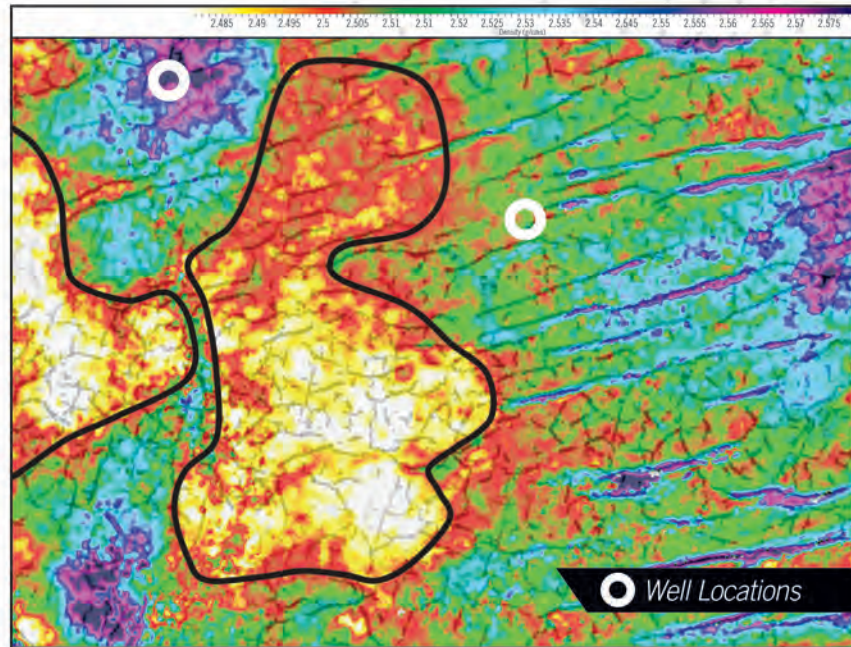
**Moderator:** Edith Allison, Director AAPG Geoscience and Energy Office, GEO-DC

Our speakers will explain the regulations that guide hydraulic fracturing, the scientific roots of those regulations, and public involvement in hydraulic fracturing decisions. A moderated discussion and question and answer period will follow the speakers’ prepared remarks.

Panelists:

- **Mike Smith**, Executive Director of the Interstate Oil and Gas Compact Commission
- **Lonnie R. Bagley**, Deputy State Director, Energy, Lands and Minerals, Colorado State Office, Bureau of Land Management
- **Doug Hock**, Director of Community/Public Relations, Encana Oil & Gas (USA) Inc.
- **Matthew Lepore**, Director of Colorado Oil and Gas Conservation Commission

# Reducing risk and uncertainty in unconventional reservoirs.



## *Unconventional Reservoir Sweet Spot Identification:*

*This map, from ION's LakeviewSCAN™ in the lower Marcellus, shows density with fault probability overlain. Rock physics calibration indicates that density values lower than 2.5g/cc correspond to high Total Organic Carbon (circled regions). ION's multicomponent ResSCAN programs yield more reliable density estimations from joint PP/PS inversion. Integration of fault probability reveals a distinct change in the structural fabric corresponding with an elevation of Total Organic Carbon.*

Reduce development costs in resource plays with ION's 3D ResSCAN™ seismic data programs. Managed by ION's GeoVentures group and imaged by ION's GX Technology data processing group, ResSCAN programs fully leverage upfront geological, petrophysical, and rock physics analysis to establish which seismic attributes, potentially from multicomponent data, tie the geology and rock physics for a given shale play. As a result, operators gain vital information to help them make better drilling and completion engineering decisions. To learn more, visit [iongeo.com/ResSCAN](http://iongeo.com/ResSCAN).

## AREAS OF EXPERTISE

- **Unconventional Reservoirs**
- Challenging Environments
- Complex Geologies
- Basin Exploration
- Reservoir Exploitation



GEOVENTURES®



	Topical Breakfasts 7:00 a.m.-8:15 a.m.	Topical Luncheons 12:05 p.m.-1:15 p.m.
Monday		<b>Impact of Unconventionals in the U.S. Energy Future</b> Rooms 405/406/407 <b>Michael J. Economides</b> , Professor of Chemical & Biomolecular Engineering, University of Houston
		<b>When the Rubber Hits the Road – Where does the Proppant Go?</b> Mile High Ballroom 4 D/E/F <b>Norm Warpinski</b> , Technology Fellow: Pinnacle - A Halliburton Service <b>George E. King</b> , Global Technology Consultant, Apache Corporation
		<b>New Frontiers in Modeling Unconventional Reservoirs</b> Mile High Ballroom 4 A/B/C <b>Thomas A. Blasingame</b> , Professor, Petroleum Engineering, Texas A&M University
Tuesday	<b>Oilfield Services for Unconventional Resources I</b> Rooms 405/406/407 <b>Jeff Meissenhelder</b> , Vice President, Unconventional Resources, Schlumberger	<b>Eagle Ford of South Texas Well Spacing, the Multibillion Dollar Question</b> Mile High Ballroom 4 A/B/C <b>Gervasio Barzola</b> , Vice President Subsurface & Development South Texas Asset Team, Pioneer Natural Resources
	<b>A Scorecard for Ranking Unconventional Plays SOLD OUT</b> Mile High Ballroom 4 D/E/F <b>Randy Miller</b> , President, Core Laboratories	
	<b>New Methods for Unconventional Well Performance Prediction</b> Mile High Ballroom 4 A/B/C <b>Hossein Kazemi</b> , Professor Petroleum Engineering and The Chesebrough Chair in Petroleum Engineering, Colorado School of Mines	<b>Unconventional Plays: It's all About the Petroleum System</b> Mile High Ballroom 4 D/E/F <b>Harris Cander</b> , Manager, Unconventional Resources & Fluids, Senior Systems Geologist, BP
Wednesday	<b>Oilfield Services for Unconventional Resources II</b> Rooms 405/406/407 <b>James King</b> , Director of Applications Engineering, Baker Hughes	
	<b>Trends in North American Unconventional Resources A&amp;D</b> Mile High Ballroom 4 A/B/C <b>Ward Polzin</b> , Managing Director, Head of A&D, Tudor/PickeringHolt	
	<b>Geotechnical Insights into the Bakken</b> Mile High Ballroom 4 D/E/F <b>Julie A. LeFever</b> , Geologist/Core Library Director, State of North Dakota	




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# Technical Program at a Glance

## Theme 1: Unconventional Project Development

Developing an Exploration Program	Monday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 4
Predicting Performance and Economics with Limited Data	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 4
Developing an Exploration Program	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall
Predicting Performance and Economics with Limited Data	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall

## Theme 2: Unconventional Reservoir Characterization

Reservoir Modeling	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 1
Core Evaluation and Depositional Environment	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 1
Reservoir Modeling	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Play and Sweet Spot Identification I	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 2&3
Play and Sweet Spot Identification II	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 2&3

## Theme 3: Unconventional Shale Plays

Shale Plays I: Practical Lessons Learned on the Road to New Resources	Monday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 2&3
Shale Plays II: "Breaking" Assessments that Move the Bottom Line	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 2&3
Shale Plays III: Going Global — New Unconventional Workflows...	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 4
Shale Plays II: "Breaking" Assessments that Move the Bottom Line	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Shale Plays III: Going Global — New Unconventional Workflows...	Wednesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

## Theme 4: Tight Oil and Tight Gas

Unconventional Tight Oil and Tight Gas	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Room 501/502/503/504
Unconventional Tight Oil and Tight Gas Carbonates	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Room 501/502/503/504
Unconventional Tight Oil and Tight Gas	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Unconventional Tight Oil and Tight Gas Carbonates	Wednesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

## Theme 5: Unconventional Coal Seam/Bed Methane

CBM: Integrated Characterization and Optimization Driving a Global...	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Room 205/207
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## Theme 6: Other Unconventional Resources

Other Unconventional Resources	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Room 201/203
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## Theme 7: Formation Evaluation of Unconventional Reservoirs

Formation Evaluation Unconventional Plays	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Room 201/203
Formation Evaluation Unconventional Plays	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall

## Theme 8: Fracture Characterization

Stimulated Volume and Fracture Prediction	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall
Importance of Natural Fractures	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Room 501/502/503/504
Stimulated Volume and Fracture Prediction	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 1

## Theme 9: Lateral Well Characterization

Well Design and Geosteering	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Room 401/402/403/404
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## Theme 10: Flow Mechanics in Tight Reservoirs

Flow Physics and Reservoir Models	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Room 201/203
Flow Physics and Reservoir Models	Wednesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

## Theme 11: Laboratory Methodologies

Pore Scale Imaging and Computation	Monday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Shale Core Analysis	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Pore Scale Imaging and Computation	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 4
Shale Core Analysis	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 4

## Theme 12: Reservoir Monitoring

Reservoir Monitoring	Monday	1:25 p.m.-5:05 p.m.	Oral	Room 501/502/503/504
Reservoir Monitoring	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

## Theme 13: Organic Geochemistry

Organic Geochemical Applications	Monday	1:25 p.m.-5:05 p.m.	Oral	Room 201/203
Source Rock Characterization	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Room 401/402/403/404



#### Theme 14: Well Performance Prediction

Geomodels and Reservoir Models	Monday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 1
Geomodels and Reservoir Models	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

#### Theme 15: Fluid Behaviors

Fluid Behaviors	Monday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Fluid Behaviors	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Room 501/502/503/504

#### Theme 16: Drilling Optimization

Drilling Optimization/Operations	Tuesday	8:25 a.m.-12:05 p.m.	Oral	Room 401/402/403/404
Drilling Optimization/Operations	Tuesday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall

#### Theme 17: Completion Optimization

Completion Optimization — Design, Integration and Fluids	Tuesday	1:25 p.m.-5:05 p.m.	Oral	Four Seasons Ballroom 2&3
Completion Optimization — Improved Recovery, Open vs. Cased Hole	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Four Seasons Ballroom 1

#### Theme 18: Geomechanics

Unconventional Geomechanics	Monday	1:25 p.m.-5:05 p.m.	Oral	Room 205/207
Unconventional Geomechanics	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall

#### Theme 19: 3-D Seismic Applications

Seismic Attributes for Sweet Spot Identification	Monday	1:25 p.m.-5:05 p.m.	Oral	Room 401/402/403/404
3-D Multi-Component and Processing	Monday	1:30 p.m.-5:00 p.m.	ePaper	Exhibition Hall
Seismic Attributes for Sweet Spot Identification	Tuesday	9:00 a.m.-12:00 p.m.	ePaper	Exhibition Hall
3-D Multi-Component and Processing	Wednesday	8:25 a.m.-12:05 p.m.	Oral	Room 401/402/403/404

#### Theme 20: Health, Safety and Environmental Issues

Health, Safety and Environmental Issues	Wednesday	1:25 p.m.-5:05 p.m.	Oral	Room 201/203
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## Opening Plenary Session

### Unconventional Resources: Breakthrough Integration Changes Everything

Mile High Ballroom 1&2

Moderator: Scott W. Tinker

8:30 a.m.–12:00 p.m.

8:30 **Introductory Remarks**

8:45 **Scott. D. Sheffield**, Chief Executive Officer, Pioneer Natural Resources, Building Success by Targeting Unconventional Resources

9:05 **M.W. Scoggins**, President, Colorado School of Mines, Bridging the Gap Between Academia and Industry

9:25 **Vello Kuuskraa**, President and Chairman of the Board, Advanced Resources International, What We Know, Think We Know, and Know We Don't Know — How Do We Move Up the Ladder

9:45 **Dave Hager**, Chief Operating Officer, Devon Energy Corporation, Lessons Learned in Value Creation Through Integration

10:05 **Break: Breakfast Bites and Refreshments Inside Exhibition Hall**

10:50 **Panel and Audience Question and Answer**

11:45 **Closing Remarks**

Opening Plenary  
Session Panelists:



Sheffield



Scoggins



Kuuskraa



Hager

\*Denotes presenter other than first author

Four Seasons Ballroom 1		Four Seasons Ballroom 2 and 3	
<b>Theme 14: Geomodels and Reservoir Models</b> Co-Chairs: M. Sorrell and R. Ambrose		<b>Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources</b> Co-Chairs: T. Collier and P. M. Basinski	
1:25	Introductory Remarks		
1:30	<b>Upper and Lower Shale's Contribution in the Liquid Rich Middle-Bakken Production:</b> S. Kumar, T. Hoffman, M. Prasad (Colorado School of Mines)		<b>The Golden Age of "Shale" Discovery:</b> P. M. Basinski (Ardent Exploration LLC)
1:55	<b>Uncertainty Analysis and Assisted History Matching Workflow in Shale Oil Reservoirs:</b> R. Fassihi <sup>2</sup> , Z. Zhang <sup>1</sup> (1. Texas A&M University; 2. BHP Billiton)		<b>Not All Source Rocks Are Source Rock Plays:</b> Screening Quality From Quantity: J. Evenick (BP America)
2:20	<b>An Improved Method to Obtain Reliable Production and EUR Prediction for Wells with Short Production History in Tight/ Shale Reservoirs:</b> S. Yu, D. J. Miocevic (ConocoPhillips Canada)		<b>A Time-Based Approach to Identify New Unconventional Plays: The Search for Phanerozoic Source Kitchens:</b> L. Waite, H. Illich, S. Lapiere (Pioneer Natural Resources)
2:45	<b>Reservoir Modeling and Forecasting Shale Multi-Stage Stimulation with Multi-Disciplinary Integration:</b> A. Malayalam, A. Gangopadhyay, C. Aboubakar, H. Sebastian, D. Woodward (BP America)		<b>Insights on Hydrocarbon-Generation Microfracturing in Organic-Rich Shales:</b> M. Al Duhailan, S. Sonnenberg, A. N. Tutuncu, L. D. Meckel (Colorado School of Mines)
3:10	Refreshment Break in the Exhibition Hall		
3:50	<b>Production Forecasting for Shale Gas Reservoir Wells Using a Simulator that Honors the Microstructure of Shale Gas Reservoirs and the Physics of Fluids in Nano- Porous Media:</b> G. Michel, D. Devegowda, R. Sigal, F. Civan (University of Oklahoma)		<b>Resolving Production Mechanism Types in Shale Reservoirs — An Eagle Ford Case Study from Localized Reservoir Characterization to Basin Understanding:</b> K. Moncada, K. Atwood, R. Altman, R. Malpani, S. Indriati (Schlumberger)
4:15	<b>Investigation of Flow and Imbibition Processes in Spraberry Fracture Systems Using a Hyper-Threaded Reservoir Simulator:</b> K. Scott, M. A. Quinn, G. D. Monson, P. Leonard (Pioneer Natural Resources)		<b>Characterization for Source Rock Potential of the Bakken Shales in the Williston Basin, North Dakota and Montana:</b> H. Jin, S. Sonnenberg (Colorado School of Mines)
4:40	<b>Modeling Production Performance of an Abnormally High Pressure Unconventional Shale Reservoir:</b> B. Kurtoglu <sup>1</sup> , B. Ramirez <sup>1</sup> , H. Kazemi <sup>2</sup> (1. Marathon Oil Corporation; 2. Colorado School of Mines)		<b>Multiple Interpretations of Unconventional Well Performance Using Analytical Solutions: A Marcellus Case Study:</b> F. Lalehrokh, R. Jayakumar, R. Yalavarthi (Weatherford)



	Four Seasons Ballroom 4	Room 501/502/503/504
	Theme 1: Developing an Exploration Program Co-Chairs: J. O'Brien and D. N. Valleau	Theme 12: Reservoir Monitoring Co-Chairs: S. Maxwell and TBD
1:25	Introductory Remarks	
1:30	Valuing Seismic at the Drilling Program Level for Sweet Spot Identification in Unconventional Resource Plays: E. Coopersmith (Decision Frameworks)	Baseline/Calibration Method for Reservoir Pressure Determination: J. R. Adams <sup>2</sup> , H. Sebastian <sup>2</sup> , S. Motealleh <sup>2</sup> , B. Dotson <sup>1</sup> (1. Clover Global Staffing; 2. BP America Production Co.)
1:55	Geologic Controls on Oil Production from the Niobrara Formation, Silo Field, Laramie County, Wyoming: C. Welker <sup>1</sup> , L. Stright <sup>1</sup> , T. C. Anderson <sup>2</sup> (1. University of Utah; 2. Energy & Geoscience Institute)	Permeability Estimation from Fracture Calibration Test Analysis in Shale and Tight Gas: H. H. Xue <sup>2</sup> , C. A. Ehlig-Economides <sup>1</sup> (1. Texas A&M University; 2. Schlumberger)
2:20	Niobrara Sweet Spots, Basement Geology and Sea Floor Geochemistry: M. Swan, S. Keith (Magmachem Research Institute)	Using Reflected Phases to Improve Depth Resolution of Microseismic Source Locations from Single-Well Observations: J. Rutledge <sup>1</sup> , N. Soma <sup>2</sup> (1. Schlumberger; 2. National Institute of Advanced Industrial Science and Technology)
2:45	A Comprehensive Well Look-Back; Analyzing Three Years' Worth of Drilling, Completing and Producing Eagle Ford Wells in Order to Understand Trend-Wide Performance Drivers and Variability: D. H. Portis, H. Bello, M. Murray, B. Suliman, G. Barzola, N. Basu (Pioneer Natural Resources)	Developments in Diagnostic Tools for Hydraulic Fracture Geometry Analysis: M. M. Molenaar, B. Cox (Shell Canada)
3:10	Refreshment Break in the Exhibition Hall	
3:50	Unconventional Resources — Chesapeake's Integrated Workflow: J. Miller, L. Evans, A. P. Byrnes (Chesapeake)	Analysis of Borehole Microseismic in Eagle Ford Shale, South Texas: H. Patel, J. Johanning, M. Fry, J. Russ (BP America)
4:15	Sand Wash Basin, Northwest Colorado: Exploring the Niobrara Resource Play: S. L. Perry <sup>1</sup> , R. Hutson <sup>2</sup> (1. Perry Remote Sensing LLC; 2. HRS Resources Inc.)	Searching for the Optimal Well Spacing in the Eagle Ford Shale: A Practical Tool-Kit: D. H. Portis, H. Bello, M. Murray, G. Barzola, P. Clarke, K. Canan (Pioneer Natural Resources)
4:40	Regional Geologic Characterization of the Polish Lower Paleozoic Unconventional Play Using an Integrated Seismic and Well Data Approach: P. Krzywiec <sup>1</sup> , P. Lis <sup>2</sup> , V. Buffenmyer <sup>3</sup> , M. Malinowski <sup>1</sup> , M. Lewandowski <sup>1</sup> (1. Polish Academy of Sciences; 2. GeoFuture Consulting; 3. ION Geophysical)	Geological Methods for Evaluation in a Brave New World — Unconventional Reservoir Monitoring: K. C. Dick, J. Hnat, M. D. Cakici, A. Mookerjee, B. Stephenson (Shell)
	Room 401/402/403/404	Room 201/203
	Theme 19: Seismic Attributes for Sweet Spot Identification Co-Chairs: R. Barrett and R. Ray	Theme 13: Organic Geochemical Applications Co-Chairs: J. B. Curtis and M. D. Lewan
1:25	Introductory Remarks	
1:30	Case Study of 3-D Seismic Inversion and Rock Property Attribute Evaluation of the Haynesville Shale: K.L. Smith, D. Metzner (Encana Oil & Gas)	Williston Basin Pre-Bakken Potential Using Regional Maturity Modeling: G. Zimbrick, M. P. Dolan, D. Thul (Dolan Integration Group)
1:55	Recent Advances in the Characterization of Unconventional Reservoirs with Wide Azimuth Seismic Data: S. Volterrani, R. Bachrach*, C. Sayers, S. Dasgupta, J. Silva (Schlumberger)	The Bakken at Parshall Field: Inferences from New Data Regarding Hydrocarbon Generation and Migration: J. Newman <sup>1</sup> , J. Edman <sup>*2</sup> , J. LeFever <sup>3</sup> , J. Howe <sup>4</sup> (1. Newman Energy Research; 2. Edman Geochemical Consulting, LLC; 3. North Dakota Geological Survey; 4. Howe Geology, LLC)
2:20	A Workflow for Predicting Porous Sand via Seismic Attribute Analysis of a Missourian Age Mid-Continent Wash: R. Fairfield <sup>1</sup> , M. Stone <sup>2</sup> , R. Wen <sup>2</sup> (1. SM Energy; 2. Geomodeling Corp.)	Identification of Three Williston Basin Oil Families Derived from Mississippian Carbonate Source Rocks: J. E. Zumberge <sup>1</sup> , J. B. Curtis <sup>*2</sup> , D. Rocher <sup>1</sup> (1. GeoMark Research, Ltd.; 2. Colorado School of Mines)
2:45	Multiuse of Seismic and Attributes Mapping for Field Appraisal and Development in the Eagle Ford Shale: Mapping TOC, Porosity, and Seal Integrity: H. D. Bello, G. Barzola, D. Portis, B. Tinnin, M. Handke (Pioneer Natural Resources)	Barnett Gas Geochemistry and Thermal Maturity, Fort Worth Basin: H. A. Illich <sup>1</sup> , K. Ferworn <sup>2</sup> , G. Nilson <sup>1</sup> , F. Hernandez <sup>1</sup> , D. Williamson <sup>3</sup> (1. Pioneer Natural Resources; 2. GeoMark Research, Ltd.; 3. Forge Energy, LLC)
3:10	Refreshment Break in the Exhibition Hall	
3:50	Applying 3-D Seismic Technology to Better Understand the Mechanical Variability of the Lower Barnett Shale in Southern Montague and Northern Wise Counties, Fort Worth Basin: A. Stephens (Pioneer Natural Resources)	Applying 3-D Seismic Technology to Better Understand the Mechanical Variability of the Lower Barnett Shale in Southern Montague and Northern Wise Counties, Fort Worth Basin: A. Stephens (Pioneer Natural Resources)
4:15	Distance Metric Based Multi-Attribute Seismic Facies Classification to Identify Sweet Spots Within the Barnett Shale: A Case Study from Fort Worth Basin, TX: A. Roy, V. Jayaram, K. Marfurt (University of Oklahoma)	Seismic Reservoir Delineation: An Example from the Marcellus Shale: F. Gallice, E. Mason (Southwestern Energy)
4:40	Using Analytics to Quantify the Value of Seismic Data for Mapping Eagle Ford Sweetspots: M. Roth <sup>1</sup> , T. Royer <sup>2</sup> (1. Transform Software and Services; 2. Global Geophysical)	Using Analytics to Quantify the Value of Seismic Data for Mapping Eagle Ford Sweetspots: M. Roth <sup>1</sup> , T. Royer <sup>2</sup> (1. Transform Software and Services; 2. Global Geophysical)

# Monday Oral Sessions

\*Denotes presenter other than first author

## Room 205/207

### Theme 18: Unconventional Geomechanics

Co-Chairs: A. N. Tutuncu and M. D. Zoback

1:25	<b>Introductory Remarks</b>
1:30	<b>Using the Structural and Burial History to Predict the Existence and Orientation of Planes of Weakness:</b> M. Enderlin <sup>1</sup> , H. Alsleben <sup>1</sup> , M. Mullen <sup>2</sup> (1. Texas Christian University; 2. Stimulation Petrophysics Consulting, LLC)
1:55	<b>New Approach to Geomechanics Solves Serious Horizontal Drilling Problems in Challenging Unconventional Plays:</b> S. Higgins-Borchardt, A. Krepp, M. Frydman, J. Stichler (Schlumberger)
2:20	<b>Laboratory Determination of the Continuous Stress- Dependent Permeability of Unconventional Oil Reservoir Rocks:</b> D. Katsuki, M. Gutierrez*, A. N. Tutuncu (Colorado School of Mines)
2:45	<b>Effects of Mineralogy and Petrophysical Characteristics on Acoustic and Mechanical Properties of Organic Rich Shale:</b> A. A. Alqahtani, M. Mokhtari, A. N. Tutuncu, S. Sonnenberg (Colorado School of Mines)
3:10	<b>Refreshment Break in the Exhibition Hall</b>
3:50	<b>Numerical Upscaling of Coupled Flow and Geomechanics in Highly Heterogeneous Porous Media:</b> D. Yang <sup>1</sup> , G. J. Moridis <sup>2</sup> , T. A. Blasingame <sup>1</sup> (1. Texas A&M University; 2. Lawrence Berkeley National Laboratory)
4:15	<b>Modeling the Significance of Mechanical Interfaces to Fracture Propagation and Morphology — Geomechanical Models Derived from Outcrop Analysis:</b> E. Petrie, J. P. Evans (Utah State University)
4:40	<b>Pulsed Fracturing in Shale Reservoirs: Geomechanical Aspects, Ductile-Brittle Transition and Field Implications:</b> R. Safari <sup>1</sup> , M. Ji <sup>2</sup> , J. Glanville <sup>2</sup> , R. Gandikota <sup>1</sup> , H. Abass <sup>3</sup> , U. Mutlu <sup>1</sup> (1. Weatherford; 2. ANSYS, Inc.; 3. Saudi Aramco)



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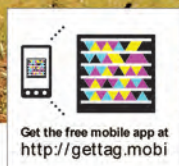


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	Four Seasons Ballroom 1	Four Seasons Ballroom 2 and 3
	<b>Theme 2: Reservoir Modeling</b> Co-Chairs: R. Barrett and R. Roadifer	<b>Theme 3: Shale Plays II: “Breaking” Assessments that Move the Bottom Line</b> Co-Chairs: T. Collier and A. N. Tutuncu
<b>8:25</b>	<b>Introductory Remarks</b>	
<b>8:30</b>	<b>Integration of Natural and Hydraulic Fracture Network Modeling with Reservoir Simulation for an Eagle Ford Well:</b> R. M. Offenberger <sup>1</sup> , N. Ball <sup>1</sup> , D. Usoltsev <sup>2</sup> , K. Kanneganti <sup>2</sup> (1. Pioneer Natural Resources; 2. Schlumberger)	<b>An Integrated Geomechanical and Microseismic Study of Multi-Well Hydraulic Fracture Stimulation in the Bakken Formation:</b> Y. Yang <sup>1</sup> , M. D. Zoback <sup>1</sup> , T. Dohmen <sup>2</sup> , M. Simon <sup>2</sup> (1. Stanford University; 2. Hess Corporation)
<b>8:55</b>	<b>An Integrated Approach to Reservoir Characterization in an Unconventional Reservoir: The Woodford Play:</b> D. Alfred, K. Hlava, J. Rodriguez, B. Ramirez (Marathon Oil Corporation)	<b>Variable Stimulated Reservoir Volume Simulation: Eagle Ford Shale Study:</b> B. Suliman, R. Meek, R. A. Hull, H. D. Bello, D. H. Portis, P. Richmond (Pioneer Natural Resources)
<b>9:20</b>	<b>A Systematic Approach to Understanding Well Performance in Unconventional Reservoirs: A Wolfcamp Case Study:</b> K. Mohan, K. Scott, G. D. Monson, P. Leonard (Pioneer Natural Resources)	<b>Production-Induced Alteration of Natural and Hydraulic Fracture Permeability of Shale Reservoirs:</b> M. Mokhtari, A. A. Alqahtani, A. N. Tutuncu, S. Sonnenberg (Colorado School of Mines)
<b>9:45</b>	<b>Geology, Completions and Reservoir Engineering: Key Drivers for Field Development Strategies in Fluvial Tight Gas Reservoirs:</b> P. Cuba, K. Ramirez*, M. Carr, J. Thompson, J. Miskimins, D. Anderson (Colorado School of Mines)	<b>Diagnosing Pressure-Dependent-Permeability in Long-Term Shale Gas Pressure and Production Transient Analysis:</b> F. E. Vera, C. A. Ehlig-Economides (Texas A&M University)
<b>10:10</b>	<b>Refreshment Break in the Exhibition Hall</b>	
<b>10:50</b>	<b>Incorporating Geological Characterization into Unconventional Geomodels for Accurate Reservoir Characterization:</b> B. Melton (Hess Corporation)	<b>Pitfalls of Averaging Fracture Dimensions and Reservoir Permeability for Unconventional Reservoirs:</b> R. Jayakumar, A. Araque-Martinez, A. Boulis (Weatherford)
<b>11:15</b>	<b>History Matching and Production Data Analysis for Shale Gas and Oil Reservoirs: The Relevance of Incorporating the Correct Physics in Reservoir and Fracture Characterization:</b> S. Kalakkadu Venkatasubramanian, D. Devegowda, R. Sigal, F. Civan (University of Oklahoma)	<b>Modeling and Simulation of Production from Commingled Shale Gas Reservoirs:</b> B. Milad, F. Civan, D. Devegowda, R. Sigal (University of Oklahoma)
<b>11:40</b>	<b>Shallow Transgressive Onlap Model for Ordovician and Devonian Organic-Rich Shales, New York State:</b> L. B. Smith (Smith Stratigraphic LLC)	<b>A Production Optimization Approach for Completion and Fracture Spacing Optimization for Unconventional Shale Oil Exploitation:</b> L. Sierra, M. Mayerhofer, C. Jin* (Pinnacle, A Halliburton Service)
	<b>Four Seasons Ballroom 1</b>	<b>Four Seasons Ballroom 2 and 3</b>
	<b>Theme 2: Core Evaluation and Depositional Environment</b> Co-Chairs: S. Rhodes and R. Barrett	<b>Theme 17: Completion Optimization — Design, Integration and Fluids</b> Co-Chairs: A. Reynolds and R. Fuls
<b>1:25</b>	<b>Introductory Remarks</b>	
<b>1:30</b>	<b>A 3-D Outcrop Perspective of an Unconventional Carbonate Mudstone Reservoir:</b> A. D. Donovan <sup>1</sup> , T. Staerker <sup>1</sup> , A. Pramudito <sup>1</sup> , R. Gardner <sup>2</sup> , M. Pope <sup>2</sup> (1. BP; 2. TAMU)	<b>Investigating the Critical Geological and Completion Parameters that Impact Production Performance:</b> E. A. Ejofodomi, G. Cavazzoli (Schlumberger)
<b>1:55</b>	<b>The Sedimentology of Mudrocks: Organics, Organisms, and Occasional Occurrences:</b> J. A. May (Consultant)	<b>An Integrated Approach for Optimizing Vertical Wolfbone Wells in the Delaware Basin:</b> M. E. Yates <sup>1</sup> , A. Sharma <sup>1</sup> , T. Itibrou <sup>1</sup> , L. Smith <sup>1</sup> , K. Fisher <sup>2</sup> , R. Brown <sup>2</sup> , L. Honeyman <sup>2</sup> , B. Bates <sup>2</sup> (1. Schlumberger; 2. Endeavor Energy Resources, L.P.)
<b>2:20</b>	<b>Pores, Spores, Pollen and Pellets: Small but Significant Constituents of Resource Shales:</b> R. M. Slatt <sup>1</sup> , N. O'Brien <sup>2</sup> , P. Philp <sup>1</sup> , C. Molinares <sup>1</sup> , E. Torres <sup>1</sup> , A. Serna <sup>1</sup> (1. University of Oklahoma; 2. State University of New York)	<b>Eagle Ford Completions Optimization — An Operator’s Approach:</b> O. Jaripatke, N. Pandya (Pioneer Natural Resources)
<b>2:45</b>	<b>Microfacies Analysis: An Integrated Petrologic Approach to Characterizing Mudrock Heterogeneity:</b> J. M. Spaw (Marathon Oil Corporation)	<b>Declining Frac Effectiveness — Evidence that Propped Fractures Lose Conductivity, Surface Area, and Hydraulic Continuity:</b> M. Vincent (Insight Consulting)
<b>3:10</b>	<b>Introductory Remarks</b>	
<b>3:50</b>	<b>Mississippian Lime Play: Variations in Reservoir Geology East of the Nemaha Ridge:</b> E. N. Wilson <sup>1</sup> , S. Matson <sup>2</sup> , C. Wickstrom <sup>3</sup> (1. University of Tulsa; 2. Spyglass Energy Group, LLC; 3. Bandolier Energy, LLC)	<b>A Multi-Domain Approach to Completion and Stimulation Design in the Marcellus Shale:</b> B. D. Clark <sup>1</sup> , U. Ganguly <sup>1</sup> , A. Mookerjee <sup>2</sup> , K. C. Dick <sup>2</sup> , D. Rampton <sup>2</sup> , M. D. Cakici <sup>2</sup> , J. Brewer <sup>2</sup> , C. MacDonald <sup>2</sup> (1. Schlumberger; 2. SEPCO)
<b>4:15</b>	<b>Geologic Characterization and the Depositional Environment of the Middle Devonian Marcellus Shale, Appalachian Basin, NE USA:</b> O. O. Emmanuel <sup>2</sup> , S. Sonnenberg <sup>1</sup> (1. Colorado School of Mines; 2. BG Group Plc)	<b>Estimation and Interpretation of Hydraulic Fracture Parameters from Microseismic Data in Shale Plays or Are Pairs of Stimulated Horizontal Wells Generating a More Complex Stimulation?:</b> R. A. Hull, R. Meek, M. S. Milliken, J. Ndungu, M. Thomas (Pioneer Natural Resources)
<b>4:40</b>	<b>Recognition of Ichnofacies Distributions and their Contributions to Matrix Heterogeneity in Mudstones:</b> J. M. Spaw (Marathon Oil Corporation)	<b>Structural Stage Spacing: A Win-Win-Win Technique for EUR, Costs and HSE:</b> B. Stephenson <sup>1</sup> , R. Fannin <sup>1</sup> , C. Dick <sup>1</sup> , M. D. Cakici <sup>1</sup> , M. Williams <sup>2</sup> (1. Shell; 2. GRMR Oil and Gas)



Four Seasons Ballroom 4		Room 501/502/503/504
Theme 1: Predicting Performance and Economics with Limited Data Co-Chairs: S. Rhodes and R. Pharis		Theme 4: Unconventional Tight Oil and Tight Gas Co-Chairs: S. Sonnenberg and M. Mullen
8:25	Introductory Remarks	
8:30	The Discovery of the Marcellus Play — An Operator's Experience in Developing a Giant Gas Field: R. Walker, J. Ventura, W. Zagorski, G. Davis, J. Applegath, M. Curry, J. Frantz, D. Robinson, D. Degner, M. Middlebrook, A. Tullis (Range Resources Corp.)	Evaluation of Completion Techniques in the Codell and Niobrara Formations of the Wattenberg Field: M. Paterniti, T. Losacano (Halliburton)
8:55	Economic Feasibility Analysis of the Marcellus Shale, Pennsylvania: C. H. Liu (Colorado School of Mines)	Integrated Geological Reservoir Characterization of the Cardium Light Tight Oil Play, Pembina Field in Alberta: P. K. Pedersen, J. D. Fic, A. Fraser (University of Calgary)
9:20	Leveraging the Option Value of Unconventional Resource Projects: P. D. Allan (Portfolio Decisions International)	Characterizing Tight Gas Systems with Production Data — Wyoming, Utah, and Colorado: P. H. Nelson, S. L. Santus (U.S. Geological Survey)
9:45	Incorporation of Unconventional Investment Opportunities Using a Risked Phased Program Assessment Method to Enable Consistent Portfolio Decision Making: B. Edwards, K. Rodriguez, S. Rasey (Custer Resources)	A Geodynamic View of Oil and Gas Resources Associated to the Unconventional Shale Reservoirs of Argentina: S. Barredo <sup>1</sup> , L. Stinco <sup>2</sup> (1. Instituto Tecnológico de Buenos Aires; 2. Universidad de Buenos Aires)
10:10	Refreshment Break in the Exhibition Hall	
10:50	Horizontal Well Performance Prediction Early in the Life of the Horizontal Wolfcamp Oil Resource Play in the Midland Basin: T. Deen, V. Shchelokov, R. Wydrinski, M. Friedrich, T. Reed (Pioneer Natural Resources)	WolfBone Oil-Saturated, Super Sweet Spot, Southern Delaware Basin: Integrated Approach from Exploration to Geologic/Reservoir Modeling and Field Development: W. Fairhurst, M. Hanson Wallace (Eagle Oil & Gas)
11:15	Impact of Operator's Best Practices, Completion Design and Well Density on Projected Ultimate Recoveries of Horizontal Bakken Wells in Williams County, North Dakota: J. Sipeki, T. L. Hower (MHA Petroleum Consultants)	The Identification and Commercialization of Subnormally Pressured, Unconventional Gas-Bearing Sandstones: B. Law (Paltar Petroleum Ltd.)
11:40	Spacing Pilots Performance Study Using Public Data in the Barnett Shale: H. Pratikno <sup>1</sup> , D. E. Reese <sup>2</sup> , M. M. Maguire <sup>1</sup> , G. A. Wilson <sup>1</sup> (1. ConocoPhillips; 2. Consultant)	Vaca Muerta Shale Reservoir Characterization and Description: The Starting Point to Development of a Shale Play with Very Good Possibilities for a Successful Project: M. N. Garcia, F. Sorenson, J. C. Bonapace, H. Stockman (Halliburton)
Four Seasons Ballroom 4		Room 501/502/503/504
Theme 3: Shale Plays III: Going Global — New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies Chair: P. M. Basinski		Theme 4: Unconventional Tight Oil and Tight Gas Carbonates Chair: S. Sonnenberg
1:25	Introductory Remarks	
1:30	Optical Kerogen Analysis — A New Workflow In Unconventional Shale Play Analysis: H. Jäger (GeoResources STC)	New Reserves in an Old Field: The Niobrara Resource Play in the Wattenberg Field, Denver Basin, Colorado: S. Sonnenberg (Colorado School of Mines)
1:55	Relative Permeability in a Shale Formation in Colombia using Digital Rock Physics: J. D. Walls <sup>1</sup> , A. Grader <sup>1</sup> , M. T. Cantisano <sup>2</sup> , D. Restrepo <sup>2</sup> , S. Cespedes <sup>2</sup> , J. Toelke <sup>1</sup> , M. Suhrer <sup>1</sup> (1. Ingrain; 2. Ecopetrol)	Horizontal Mississippian Frac Completions in Oklahoma and Kansas: W. Grieser, H. Pinkerton (Halliburton)
2:20	Simultaneous Interpretation of Multiple Geological, Geophysical, and Geochemical Measurements Helps Target Sweet Spots and Improve Basin-Scale Understanding of Argentina's Neuquén Basin: H. Snyder, C. Beasley, C. Fernandez, C. Clark (Neos GeoSolutions)	Integrating Geology and Engineering: Implications for Production in the Bakken Play, Williston Basin: C. Theloy, S. Sonnenberg (Colorado School of Mines)
2:45	Geologic Interpretation and Assessment of Early Cretaceous Shale Oil and Gas Potential in Austral Basin, Argentina: H. J. Belotti, F. Pagan, A. Perez, M. Agüera, J. Rodriguez, J. Porras, G. Kohler, G. Weiner, G. Conforto, M. Cagnolatti (Petrobras Energía S.A.)	Stratigraphic, Depositional and Diagenetic Controls on Tight Oil Reservoir Development, Big Valley Formation (Three Forks Formation Equivalent), Southern Alberta: J. Colborne <sup>1</sup> , R. Bustin <sup>1</sup> , G. Reinson <sup>2</sup> , N. Bruder <sup>3</sup> (1. University of British Columbia; 2. Reinson Consultants LTD; 3. Murphy Oil)
3:10	Introductory Remarks	
3:50	Basic Characteristics and Exploration Prospect of the Upper Triassic Xujiahe Formation Continental Shale Gas in Sichuan Basin of China: D. Chen, M. Xie (China University of Petroleum)	High-Resolution Carbon Isotope and Elemental Chemostratigraphy of the Greenhorn, Carlile, and Niobrara Formations, Denver Basin, CO: K. Nakamura <sup>1</sup> , J. Humphrey <sup>1</sup> , L. Stout <sup>1</sup> , L. Canter <sup>2</sup> (1. Colorado School of Mines; 2. 2Whiting Petroleum Corporation)
4:15	Primary Depositional Controls on Oil Shale Potential in the Karoo-Parana Basins: A Global Sequence Stratigraphic and Geodynamic Perspective: C. C. Saunders, R. S. James, C. J. Lang, A. C. Messer (Neflex)	TBD
4:40	Unconventional Oil and Gas Potential of the Widmerpool Gulf in the East Midlands Province of England/English Midlands: M. Raji <sup>1</sup> , C. Cornford <sup>2</sup> , A. Pather <sup>3</sup> , D. Satterfield <sup>1</sup> (1. University of Derby; 2. Integrated Geochemical Interpretation Limited; 3. RPS Energy)	Geological Characteristics and Hydrocarbon Accumulation Models of the Tight-Sand Gas Reservoirs in Upper Triassic Xujiahe Formation in Western Sichuan Depression of China: D. Chen, L. Wang (China University of Petroleum)

Room 401/402/403/404		Room 201/203	
Theme 16: Drilling Optimization/Operations Co-Chairs: K. Stephenson and A. Nall		Theme 7: Formation Evaluation of Unconventional Plays Co-Chairs: M. Honarpour and P. Connolly	
8:25	Introductory Remarks		
8:30	Lowering Drilling Cost, Improving Operational Safety, and Reducing Environmental Impact through Zonal Isolation Improvements for Horizontal Wells Drilled in the Marcellus Shale: J. A. Bassett <sup>1</sup> , M. Nikolaou <sup>2</sup> , J. Watters <sup>1</sup> , N. K. Combs <sup>1</sup> (1. CSI Technologies LLC; 2. University of Houston)	A Multi-Measurement Core-Log Integration for Advanced Formation Evaluation of Source Rock Formations: A Green River Case Study: S. L. Reeder <sup>1</sup> , R. L. Kleinberg <sup>1</sup> , M. Herron <sup>1</sup> , A. Burnham <sup>2</sup> , P. Allix <sup>3</sup> (1. Schlumberger; 2. American Shale Oil, LLC; 3. TOTAL Exploration & Production)	
8:55	Drilling Fluids: Tackling Drilling, Production, Wellbore Stability, and Formation Evaluation Issues in Unconventional Resource Development: M. Stephens <sup>1</sup> , W. He <sup>2</sup> , M. Freeman <sup>2</sup> , G. Sartor <sup>2</sup> (1. RockDocMike, LLC; 2. M-I SWACO, Schlumberger)	Determination of Formation Organic Carbon Content Using a New Neutron Induced Gamma Ray Spectroscopy Service that Directly Measures Carbon: J. Gonzalez, R. Lewis, J. Hemingway (Schlumberger)	
9:20	High-Performance Water Base Mud Using Nanoparticle for Shale Reservoirs: C. Jung <sup>1</sup> , R. Zhang <sup>2</sup> , M. Chenevert <sup>1</sup> , M. Sharma <sup>1</sup> (1. University of Texas at Austin; 2. China University of Petroleum)	Impact of Kerogen Distribution on Borehole Electrical Resistivity Measurements in Organic-Rich Source Rocks: Z. Heidari, N. Kethireddy (Texas A&M University)	
9:45	Creep-Recovery Test: A Critical Tool for Rheological Characterization of Drilling Fluids: B. T. Bui, A. N. Tutuncu (Colorado School of Mines)	In-Depth Experimental Investigation of Shale Physical and Transport Properties: H. Aljamaan, K. R. Alnoaimi, A. R. Kovscek (Stanford University)	
10:10	Refreshment Break in the Exhibition Hall		
10:50	Increasing Drilling Performance for ERD Wells with New Generation Drill Pipe: L. Van Puymbroeck (VAM Drilling)	Liquids-Rich Resource Play Characterization Using Well Log Analysis Calibrated with Petrographic Properties from Drill Cuttings: E. Vosburgh, O. Djordjevic*, J. A. Rushing (Apache Corp.)	
11:15	Application of Innovative Reaming and Completion Technology in Williston Basin Wells: L. Smith, G. Scott (Alaskan Energy Resources)	Multi-Detector, Pulsed Neutron-Based Synthetic Openhole Logs — An Unconventional Gas Reservoir Case Study: Y. Kim, D. Chace (Baker Hughes)	
11:40	Advancements in Drill Bit Design and Cutter Technology Deliver Step Change in Drilling Performance and Significant Economic Benefit in Williston Basin: T. Roberts <sup>1</sup> , S. Selwyn <sup>1</sup> , R. Wilkerson <sup>1</sup> , M. Menge <sup>2</sup> , A. Binnion <sup>2</sup> , R. Lawson <sup>2</sup> (1. National Oilwell Varco; 2. Marathon Oil Company)	Petrophysical Rock Typing in Organic-Rich Source Rocks Using Well Logs and Core Measurements: M. Saneifar, N. Kethireddy, A. Aranibar, Z. Heidari* (Texas A&M University)	
Room 401/402/403/404		Room 201/203	
Theme 9: Well Design and Geosteering Co-Chairs: K. Stephenson and M. Wright		Theme 10: Flow Physics and Reservoir Models Co-Chairs: M. Honarpour and K. E. Williams	
1:25	Introductory Remarks		
1:30	Drilling Optimization Methodology Connects 20+ Technical Disciplines: J. A. Greenwood (Halliburton)	Role of Rock and Fluid — Impact on Reservoir Performance on Unconventional Shale Reservoirs: N. R. Nagarajan, M. Honarpour, F. Arasteh (Hess Corp.)	
1:55	Manage the Pressure — Drive the Results: C. J. Bernard (Halliburton)	Compositional Simulation of Condensate Banking Coupled with Reservoir Geomechanics: J. Deng (University of Calgary)	
2:20	Application of Real-Time Well-Site Tools for Enhanced Geosteering, Reservoir and Completions Characterization: T. Ashton <sup>1</sup> , C. V. Ly <sup>*2</sup> , G. Spence <sup>2</sup> (1. EagleRidge Energy, LLC; 2. Fugro Roberston Inc)	A New Non-Empirical Approach to Model Transport of Fluids in Shale Gas Reservoirs: H. Singh, F. Javadpour (University of Texas)	
2:45	Geosteering Using True Stratigraphic Thickness: C. R. Berg <sup>1</sup> , A. C. Newson <sup>2</sup> (1. ResDip Systems; 2. Moose Oils Ltd.)	Proper Simulation of Fracturing-Fluid Flowback from Hydraulically-Fractured Shale-Gas Wells Delayed by Non-Equilibrium Capillary Effects: G. Michel, M. Cicek, R. Sigal, F. Civan, D. Devegowda (University of Oklahoma)	
3:10	Introductory Remarks		
3:50	Forensic Chemostratigraphy in Geosteering Multilateral Wells: An Example from Devonian to Carboniferous-Aged Sequences in Southern Alberta: H. Stilwell <sup>1</sup> , N. Martinez <sup>1</sup> , G. Hildred <sup>2</sup> , B. Zaitlin <sup>2</sup> (1. Chemostrat; 2. Native American Resource Partners)	A Pore Scale Study Describing the Dynamics of Slickwater Distribution in Shale Gas Formations During and After Hydraulic Fracturing: Y. Hu, D. Devegowda, A. Striolo, F. Civan, R. Sigal (University of Oklahoma)	
4:15	Expanding the Application of Chemostratigraphy Within Cretaceous Mudrocks: Estimating Total Organic Carbon and Paleoredox Facies Using Major, Minor and Trace Element Geochemistry: B. Tinnin <sup>1</sup> , G. Hildred <sup>2</sup> , N. Martinez <sup>2</sup> (1. Pioneer Natural Resources; 2. Chemostrat Inc.)	Marcellus Well Spacing Optimization — Pilot Data Integration and Dynamic Modeling Study: M. D. Cakici, C. Dick, A. Mookerjee, B. Stephenson (Shell)	
4:40	Niobrara Horizontal Well: Planning and Execution: The Other Half of the Equation: J. M. Wiener, M. Elfedawy (Halliburton Energy Services)	Novel Approaches for the Simulation of Unconventional Reservoirs: B. Yan, J. E. Killough, Y. Wang (Texas A&M University)	



\*Denotes presenter other than first author

## Room 205/207 — Interactive Panels

**Nimble Independents: "Moving the Needle" with Innovation and Execution Excellence**  
Moderator: Jeff Meisenhelder

8:25	<b>Introductory Remarks</b>
8:30	<b>J. Ross Craft</b> , President & Chief Executive Officer, Approach Resources, Inc.
8:40	<b>Peter Hill</b> , Executive Chairman, Triangle Petroleum Corporation
8:50	<b>Mark K. Castell</b> , Vice President-Oklahoma Assets, PetroQuest Energy, Inc.
9:00	<b>Interactive Panel Question and Answer</b>
9:30	<b>Audience Question and Answer</b>

**Technologies that May Transform the Future**  
Moderator: Mark Zoback

10:50	<b>Introductory Remarks</b>
10:55	<b>Mike Mullen</b> , President, Stimulation Petrophysics
11:05	<b>Doug Valleau</b> , Director, Unconventional Technology, Hess
11:15	<b>Greg Leveille</b> , General Manager, Unconventional Resources, ConocoPhillips
11:25	<b>Interactive Panel Question and Answer</b>
11:40	<b>Audience Question and Answer</b>

## Room 205/207 — Interactive Panels

**Making it Happen in the Field: Converting Technology into Dollars**  
Moderator: Steve Holditch

1:25	<b>Introductory Remarks</b>
1:30	<b>Rick Muncrief</b> , Senior Vice President, Operations and Resource Development, Continental Resources, Inc.
1:40	<b>Dennis Degner</b> , Director of Operations, South Marcellus Shale Division, Range Resources-Appalachia, LLC
1:50	<b>Tom Spalding</b> , Vice President, Horizontal Permian, Pioneer Natural Resources
2:00	<b>Interactive Panel Question and Answer</b>
2:30	<b>Audience Question and Answer</b>

**Sustainability, Job Creation and Public Image**  
Moderator: John Martin

3:50	<b>Introductory Remarks</b>
3:55	<b>Lynn D. Helms</b> , Director, Department of Mineral Resources, North Dakota Industrial Commission
4:05	<b>William F. Whitsitt</b> , Executive Vice President, Public Affairs, Devon Energy Corporation
4:15	<b>Mark Guest</b> , Chief Executive Officer, Oilcareers
4:25	<b>Interactive Panel Question and Answer</b>
4:40	<b>Audience Question and Answer</b>

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	Four Seasons Ballroom 1	Four Seasons Ballroom 2 and 3
	<b>Theme 17: Completion Optimization — Improved Recovery, Open vs. Cased Hole</b> Co-Chairs: J. Frantz and S. Maxwell	<b>Theme 2: Play and Sweet Spot Identification I</b> Co-Chairs: S. Rhodes and R. Barrett
8:25	<b>Introductory Remarks</b>	
8:30	<b>Liquid Loading within Hydraulic Fractures and its Impact on Unconventional Reservoir Productivity:</b> S. Agrawal, M. Sharma (University of Texas)	<b>Reservoir Characterization of Eagle Ford Shale through Lithofacies Analysis for Identification of Sweet Spot and Best Landing Point:</b> A. K. Sahoo, D. Mukherjee, A. Mukherjee, M. Srivastava (Reliance Industries Limited)
8:55	<b>A Case Study: New Low Damage Frac Fluid Provides Immediate Production Results in Eagle Ford Shale:</b> K. Ferguson <sup>2</sup> , C. Thomas <sup>1</sup> , N. Droemer <sup>1</sup> , J. Wilson <sup>2</sup> , S. R. Ingram <sup>*1</sup> (1. Halliburton; 2. MagnumHunter Resources)	<b>Characterization of Thickness Anomalies within the Three Forks and Bakken Formations, North Central North Dakota, USA:</b> D. G. Cobb, S. Sonnenberg (Colorado School of Mines)
9:20	<b>Impact of Completion Design on Unconventional Horizontal Well Performance:</b> R. Yalavarthi, R. Jayakumar, C. Nyaaba, R. Rai (Weatherford)	<b>Evaluation of Unconventional Resources Using a Petroleum System Modeling Approach:</b> I. D. Bryant (Schlumberger)
9:45	<b>Well Design Evolution in a Semi-Conventional Reservoir:</b> C. O'Farrell, C. Knutson, T. Crumrine (Pioneer Natural Resources)	<b>Methods for Seismic Sweet Spot Identification, Characterisation and Prediction in Shale Plays:</b> M. Gading, A. I. Evensen, L. Wensaas (Statoil ASA)
10:10	<b>Refreshment Break in the Exhibition Hall</b>	
10:50	<b>Eagle Ford Completion Optimization Strategies Using Horizontal Logging Data:</b> R. Slocombe, A. Acock, C. Chadwick, E. Wigger, A. Viswanathan (Schlumberger)	<b>Modeling Production and Prospectivity in the Austin Chalk to Optimize Well Placement, Productivity and Completion Design:</b> W. Holt <sup>1</sup> , J. Garvin <sup>2</sup> , R. Singh <sup>1</sup> , S. Boerner <sup>1</sup> , R. G. Peebles <sup>*1</sup> (1. Global Geophysical Services; 2. University of Washington)
11:15	<b>An Analytic Approach to Optimizing Well Spacing and Completions in the Bakken/Three Forks Plays:</b> M. Roth, M. Roth (Transform Software and Services)	<b>Leveraging Seismic Attributes to Understand the “Frac-Able” Limits and Reservoir Performance in the Eagle Ford Shale, South Texas, USA:</b> K. M. Clemons, R. Bodziak, R. Meek, A. Stephens (Pioneer Natural Resources)
11:40	<b>Field Trial of a Cased Uncemented Multi-Fractured Horizontal Well in the Horn River:</b> S. Merkle, J. Pyecroft, J. Lehmann (Nexen Inc.)	<b>An Analytic Approach to Geologic Interpretation and Petrophysical Modeling of the Bakken/Three Forks Plays:</b> M. Roth, M. Roth (Transform Software and Services)
	Four Seasons Ballroom 1	Four Seasons Ballroom 2 and 3
	<b>Theme 8: Stimulated Volume and Fracture Prediction</b> Co-Chairs: S. Sonnenberg, M. Mullen and M. Kendrick	<b>Theme 2: Play and Sweet Spot Identification II</b> Co-Chairs: S. Rhodes and R. Barrett
1:25	<b>Introductory Remarks</b>	
1:30	<b>An Efficient Model to Simulate Reservoir Stimulation and induced Microseismic Events on 3-D Discrete Fracture Network for Unconventional Reservoirs:</b> M. Delorme, J. Daniel, N. Khvoenkova, C. Kada Kloucha, S. Schueller Messier (IFPEN)	<b>Identification of Shale Sweet Spots Using Key Property Estimates from Log Analysis and Geostatistics:</b> L. Chorn, J. Yarus, J. Pitcher (Halliburton)
1:55	<b>What Broke? Microseismic Analysis Using Seismic Derived Rock Properties and Structural Attributes in the Eagle Ford Play:</b> R. Meek, B. Suliman, R. A. Hull, H. Bello, D. Portis (Pioneer Natural Resources)	<b>New Technologies and Integration for Optimizing Well Placement and Production:</b> B. de Ribet <sup>2</sup> , K. Sherlock <sup>1</sup> (1. Paradigm Geophysical; 2. Paradigm Geophysical)
2:20	<b>Message in a Bottle:</b> D. Bearinger (Nexen)	<b>Stratigraphy and Petroleum Potential of the Upper Three Forks Formation, North Dakota, Williston Basin USA:</b> C. P. Gutierrez, S. Sonnenberg (Colorado School of Mines)
2:45	<b>Determining the Contributing Reservoir Volume from Hydraulically Fractured Horizontal Wells in the Wolfcamp Formation in the Midland Basin:</b> M. Friedrich, M. S. Milliken, K. Scott, K. Mohan (Pioneer Natural Resources)	<b>The Stratigraphic Distribution of Hydrocarbon Storage and its Effect on Producing Hydrocarbons in the Eagle Ford Formation, South Texas:</b> N. Fishman, J. Guthrie, M. Honarpour (Hess)
3:10	<b>Refreshment Break in the Four Seasons Ballroom</b>	
3:25	<b>Investigation of Created Fracture Geometry Through Hydraulic Fracture Treatment Analysis:</b> I. A. Ahmed, C. A. Ehlig-Economides (Texas A&M University)	TBD
3:50	<b>Numerical Optimization of Hydraulic Fracture Stages on Horizontal Wells in Shale Gas Reservoirs:</b> T. Plaksina, E. Gildin, X. Ma (Texas A&M University)	<b>Influence of Plate Tectonics on Niobrara Sweet Spot Development:</b> J. Horne <sup>1</sup> , M. Swan <sup>*2</sup> , S. Keith <sup>3</sup> (1. Orion International Limited; 2. Magmachem Research Institute; 3. MagmaChem Exploration, INC)
4:15	<b>Horizontal Hydraulic Fracture Design for Optimal Well Productivity in Anisotropic Reservoirs with Different Aspect Ratios:</b> F. D. Tovar <sup>1</sup> , K. Lee <sup>1</sup> , S. E. Gonzales <sup>1</sup> , Y. Hwang <sup>1</sup> , A. M. Del Busto <sup>1</sup> , A. A. Aderibigbe <sup>1</sup> , M. J. Economides <sup>2</sup> , C. A. Ehlig-Economides <sup>1</sup> (1. Texas A&M University; 2. University of Houston)	<b>Facies, Fractures, Pressure and Production in the Eagle Ford Shale (Cretaceous) between the Maverick Basin and the San Marcos Arch, Texas, USA:</b> J. A. Breyer, R. Denne, J. Funk, T. Kosanke, J. M. Spaw, P. Christianson (Marathon Oil Company)
4:40	<b>Thermal Shock in Reservoir Rock Enhances the Hydraulic Fracturing of Gas Shales:</b> S. Enayatpour, T. Patzek (University of Texas)	



\*Denotes presenter other than first author

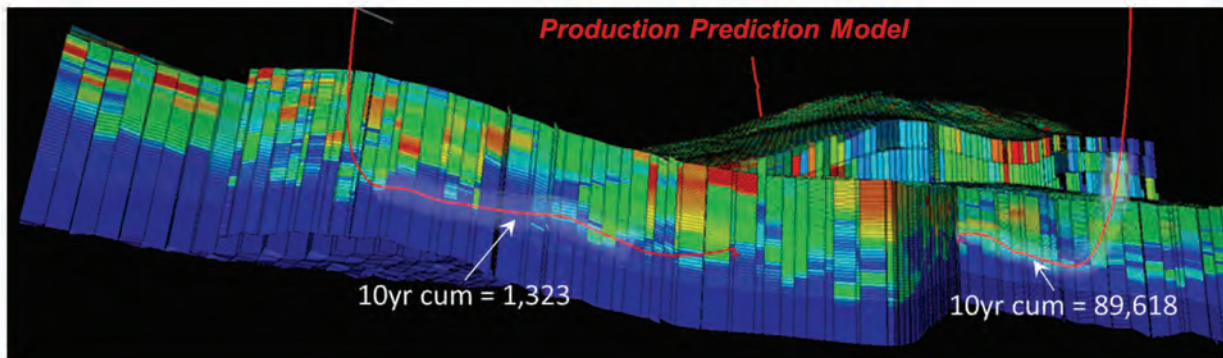
Four Seasons Ballroom 4		Room 501/502/503/504	
Theme 11: Pore Scale Imaging and Computation Co-Chairs: T. Olson and M. Prasad		Theme 8: Importance of Natural Fractures Co-Chairs: S. Sonnenberg, M. Mullen and M. Kendrick	
8:25	Introductory Remarks		
8:30	Petrophysical Properties of Unconventional Reservoir Core at Multiple Scales: M. Knackstedt <sup>1</sup> , P. E. Oren <sup>2</sup> (1. Digitalcore; 2. Lithicon)	Using Structural Diagenesis to Infer the Timing of Natural Fractures in the Marcellus Shale: L. Pommer, J. F. Gale*, P. Eichhubl, A. Fall, S. E. Laubach (University of Texas)	
8:55	Dynamic Imaging of Fluid Mobility in Low-Permeability Matrices Using Positron Emission Tomography: M. Maucec <sup>2</sup> , R. Dusterhoft <sup>1</sup> , R. Rickman <sup>1</sup> , R. Gibson <sup>3</sup> , A. Buffler <sup>4</sup> , M. van Heerden <sup>5</sup> (1. Halliburton; 2. Halliburton; 3. Halliburton; 4. University of Cape Town; 5. iThemba LABS)	Natural and Hydraulic Fractures Interaction Study Based on Semi-Circular Bending Experiment: W. Wang, J. Olson, M. Prodanovic (University of Texas)	
9:20	Investigation of the Microstructure of Shales in the Oil Window: M. Curtis, C. Sondergeld, C. Rai (University of Oklahoma)	Leveraging Seismic Data for Reservoir Characterization: Fracture Identification and Prediction to Understand Seal Integrity in the Unconventional Eagle Ford Shale Reservoir, South Texas, USA: H. Bello, K. M. Clemons*, G. Barzola (Pioneer Natural Resources)	
9:45	Nanoscale Visualization of Gas Shale Pore and Textural Features: B. Vega <sup>1</sup> , J. C. Andrews <sup>2</sup> , Y. Liu <sup>2</sup> , J. Gelb <sup>3</sup> , A. R. Kovscek <sup>1</sup> (1. Stanford University; 2. Stanford Synchrotron Radiation Lightsource; 3. X-Radia)	The Evolution of Stimulated Reservoir Volume during Hydraulic Stimulation of Shale Gas Formations: M. Johri, M. D. Zoback (Stanford University)	
10:10	Refreshment Break in the Exhibition Hall		
10:50	Improving Our Understanding of Porosity in Source Rock Reservoirs Through Advanced Imaging Techniques: L. Alcantar-Lopez, S. Chipera (Chesapeake Energy)	Geophysical Insights into Completions and Production Predictability for a Shale Gas Reservoir Using Fault Intensity and AVO Inversion: C. Reine, S. Lovric (Nexen Inc.)	
11:15	Micro-Scale Characterization of the Eagle Ford Formation Using SEM Methods and Digital Rock Modeling: B. Driskill <sup>1</sup> , J. D. Walls <sup>2</sup> , J. DeVito <sup>2</sup> , S. Sinclair <sup>3</sup> (1. Shell E&P; 2. Ingrain Inc.; 3. Matador Resources Company)	Evaluating the Effect of Natural Fractures on Production from Hydraulically Fractured Wells Using Discrete Fracture Network Models: T. Doe <sup>1</sup> , A. Lacazette <sup>2</sup> , W. S. Dershowitz <sup>1</sup> , C. Knitter <sup>1</sup> (1. Golder Associates; 2. Global Geophysical Services, Inc.)	
11:40	Direct Pore-Scale Modeling of Flow and Transport in Tight Formations: S. Oveysi, M. Piri (University of Wyoming)	Timing and Processes of Fracture Formation in Tight- Gas Sandstone Reservoirs Using Fluid Inclusions: A. Fall, P. Eichhubl, S. E. Laubach (University of Texas)	
	Four Seasons Ballroom 4	Room 501/502/503/504	
	Theme 11: Shale Core Analysis Co-Chairs: M. Prasad and P. Connolly	Theme 15: Fluid Behaviors Co-Chairs: R. Ambrose and TBD	
1:25	Introductory Remarks		
1:30	Evaluation and Improvement of Data Analysis and Interpretation Methods for Laboratory Determination of Crushed-Sample Shale Gas Permeability: F. Civan, D. Devegowda, R. Sigal (University of Oklahoma)	Critical Evaluation of Equations of State for Multicomponent Hydrocarbon Fluids in Organic Rich Shale Reservoirs: Y. Zhang, F. Civan, D. Devegowda, A. Jamili (University of Oklahoma)	
1:55	Laboratory Measurements of Matrix Permeability and Slippage Enhanced Permeability in Gas Shales: R. Heller, M. D. Zoback (Stanford University)	Pore-Size Dependence of Fluid Phase Behavior and the Impact on Shale Gas Reserves: B. Rahmani Didar, I. Akkutlu (Texas A&M University)	
2:20	A Nearly Complete Characterization of Permeability to Hydrocarbon Gas and Liquid for Unconventional Reservoirs: A Challenge to Conventional Thinking: A. Cui, R. Wust, B. Nassichuk, K. Glover, R. Brezovski, C. Twemlow (Trican Geological Solutions Ltd)	Heterogeneity Across the Lateral: Coupling Reservoir Fluid Typing and Reservoir Rock Properties to Improve Understanding in Tight Liquid Rich Plays: R. Malpani, I. Easow, S. Indriati, K. Moncada (Schlumberger)	
2:45	Stress-Dependent Flow, Mechanical, and Acoustic Properties for an Unconventional Oil Reservoir Rock: G. Han <sup>1</sup> , M. Gutierrez <sup>2</sup> , P. Schmitz <sup>1</sup> (1. Hess Corporation; 2. Colorado School of Mines)	Modeling Gas Injection into Shale Oil Reservoirs in the Sanish Field, North Dakota: C. Dong, T. Hoffman (Colorado School of Mines)	
3:10	Refreshment Break in the Four Seasons Ballroom		
3:25	A Multi-Technique Approach for Characterization of Oil- Rich Monterey Shale: S. Farhadi Nia, D. Dasani, T. Tsotsis, K. Jessen (University of Southern California)	Geological Characterization of a Bakken Reservoir for Potential CO2 EOR: B. Kurtoglu <sup>1</sup> , J. Sorensen <sup>*2</sup> , J. Braunberger <sup>2</sup> , S. Smith <sup>2</sup> , H. Kazemi <sup>3</sup> , (1. Marathon Oil Company; 2. Energy & Environmental Research Center; 3. Colorado School of Mines)	
3:50	From SEM Maps and EDS Maps to Numbers in Unconventional Reservoirs: H. J. Lemmens (FEI)	Changes in Porosity and Organic Matter Phase Distribution Determined by NMR Relaxometry Following Hydrous Pyrolysis Under Uniaxial Confinement: K. Washburn <sup>1</sup> , J. Birdwell <sup>2</sup> , M. Miller <sup>3</sup> , M. D. Lewan <sup>2</sup> (1. Weatherford Labs; 2. U.S. Geological Survey; 3. Cimarex Energy Co.)	
4:15	Quantifying Fracturing Fluid Damage on Reservoir Rock to Optimize Production: M. Pagels <sup>1</sup> , D. M. Willberg <sup>1</sup> , E. Edelman <sup>1</sup> , W. Zagorski <sup>2</sup> , J. Frantz <sup>2</sup> (1. Schlumberger; 2. Range Resources)	Clay Mineralogy of Shale Gas Reservoirs Through Integrating Infrared Spectroscopy and X-Ray Diffraction: H. Jafary Dargahi <sup>1</sup> , R. Rezaee <sup>1</sup> , B. Pejic <sup>2</sup> (1. Curtin University; 2. Commonwealth Scientific and Industrial Research Organisation (CSIRO))	
4:40	A New Laboratory Approach to Shale Analysis Using NMR Relaxometry: K. Washburn <sup>1</sup> , J. Birdwell <sup>2</sup> (1. Weatherford Labs; 2. U.S. Geological Survey)	Determination of In-Situ Hydrocarbon Volumes in Liquid Rich Shale Plays: G. E. Michael, J. Packwood, A. Holba (ConocoPhillips)	

Room 401/402/403/404		Room 201/203	
Theme 19: 3-D Multi-Component and Processing Co-Chairs: J. O'Brien and R. Ray		Theme 6: Other Unconventional Reservoirs Co-Chairs: J. Boak and T. S. Collett	
8:25	Introductory Remarks		
8:30	Estimation of Dispersion in Orientations of Natural Fractures from Seismic Data: Application to Discrete Fracture Network Modeling: R. J. Michelena <sup>1</sup> , K. S. Godbey <sup>1</sup> , C. K. Zahm <sup>2</sup> (1. iReservoir.com, Inc.; 2. University of Texas)	Gas Hydrate Reservoir Properties: T. S. Collett (U.S. Geological Survey)	
8:55	PSDM for Unconventional Reservoirs? A Niobrara Shale Case Study: M. Brown <sup>1</sup> , J. Higginbotham <sup>1</sup> , C. Macesanu <sup>1</sup> , D. List <sup>2</sup> , C. Lang <sup>2</sup> (1. Wave Imaging Technology Inc.; 2. Fidelity E&P Company)	Energy Production from Gas Hydrate Systems Using CO <sub>2</sub> and CO <sub>2</sub> /N <sub>2</sub> Injection: B. Lee, D. Sloan, C. Koh, A. Sum (Colorado School of Mines)	
9:20	Azimuthal AVO Gradient Anisotropic Analysis on Prediction of Fractures on Barnett Shale: S. Guo, B. Zhang, K. Marfurt (University of Oklahoma)	Modeling the Injection of Carbon Dioxide and Nitrogen into a Methane Hydrate Reservoir and the Subsequent Production of Methane Gas on the North Slope of Alaska: N. Garapati, P. McGuire, B. J. Anderson* (West Virginia University)	
9:45	Using Multi-Focusing 3-D Diffraction Imaging to Predict Fracture Swarms in Unconventional Reservoirs: M. Rauch-Davies, A. Berkovitch, K. Deev, D. Pelman (Geomage Ltd.)	Evolution of Lake Uinta as Defined by Mineralogy and Geochemistry of the Green River Formation in Colorado: J. Boak <sup>1</sup> , S. Poole <sup>2</sup> , J. Sarg <sup>1</sup> , K. Tanavsuu-Milkeviciene <sup>1</sup> (1. Colorado School of Mines; 2. XTO Energy)	
10:10	Refreshment Break in the Exhibition Hall		
10:50	Current Workflows for Shale Gas Reservoir Characterization: S. Chopra <sup>1</sup> , R. K. Sharma <sup>1</sup> , J. Keay <sup>1</sup> , K. Marfurt <sup>2</sup> (1. Arcis Seismic Solutions; 2. ConocoPhillips School of Geology and Geophysics)	Insights into the Maturation Process from Physical and Chemical Analysis of Partially Pyrolyzed Green River Oil Shale: R. L. Kleinberg <sup>1</sup> , A. Pomerantz <sup>1</sup> , T. Le Doan <sup>2</sup> , P. Allix <sup>2</sup> , A. Burnham <sup>3</sup> (1. Schlumberger; 2. TOTAL; 3. American Shale Oil LLC)	
11:15	Using Walk Away Checkshots for Anisotropic Depth Imaging in Resource Plays: S. Bourgeois, B. Burgess, L. Nayvelt, K. Coleman, S. Peterson (Marathon Oil)	Geothermal Potential of Deep Sedimentary Basins in the United States: T. C. Anderson (University of Utah)	
11:40	Complementary Role of Multi-Component and Conventional 3-D Seismic for Risk Reduction in Unconventional Resource Plays — A Marcellus Shale Example: T. Rebec, A. Chaveste, Z. Zhao (Geokinetics)	Rheological and Chemical Properties of Alaska Heavy Oils: M. W. Liberatore, A. M. Herring, K. Li, A. Bazyleva*, B. Akeredolu, M. Prasad, M. Batzle (Colorado School of Mines)	
Room 401/402/403/404		Room 201/203	
Theme 13: Source Rock Characterization Co-Chairs: M. D. Lewan and J. B. Curtis		Theme 20: Health, Safety and Environmental Issues Co-Chairs: R. Phariss and A. N. Tutuncu	
1:25	Introductory Remarks		
1:30	Hydrocarbon Maturity and Migration Analysis Using Production Gas Stable Isotopic Signatures in the Wattenberg Field, Denver Basin, Colorado, USA: O. Sherwood, P. Travers, M. P. Dolan (Dolan Integration Group)	Solving Water Well “Problems” and Complaints in Areas of Unconventional Resource Development: J. V. Fontana, D. M. Seneshen (VistaGeoScience)	
1:55	Effect of Organic Matter Properties, Clay Mineral Type, and Thermal Maturity on Gas Adsorption in Organic-Rich Shale Systems: T. Zhang <sup>1</sup> , G. S. Ellis <sup>2</sup> , S. Ruppel <sup>1</sup> , K. L. Milliken <sup>1</sup> , M. D. Lewan <sup>2</sup> , X. Sun <sup>1</sup> (1. University of Texas; 2. U.S. Geological Survey)	Regulatory Nirvana for the Life-Cycle of Unconventional Petroleum Projects: B. A. Goldstein, M. Malavazos, A. Wickham, M. Jarosz, D. Wenham, D. Cockshell, E. Alexander, J. Zabrowarny (South Australian State Government)	
2:20	New Geochemical Tools for the Assessment of Organic-Rich Shales: R. Elias, D. Duclerc, R. Le-Van-Loi, F. Gelin, D. Dessort (Total S.A.)	Decision Support Tool (DST) for Characterization, Treatment, and Beneficial Use of Unconventional Gas Frac Flowback and Produced Water: M. Geza, T. Cath, P. Xu, J. Drewes (Colorado School of Mines)	
2:45	Determination of Thermal Maturity and the Extent of Oil Cracking in Tight Shales Using Extract Biomarker and Diamondoid Concentrations and Distributions: J. E. Dahl <sup>1</sup> , M. Moldowan <sup>2</sup> (1. Stanford University; 2. Biomarker Technology Inc.)	Real-Time Wireless Seismic Acquisition of Microseismic Events for Monitoring Hydrofracturing: D. Crice, R. Kligfield*, M. Lambert (Wireless Seismic Inc.)	
3:10	Refreshment Break in the Four Seasons Lobby		
3:25	Geochemical Changes and Fracture Development in Woodford Shale Cores Following Hydrous Pyrolysis Under Uniaxial Confinement: J. Birdwell <sup>1</sup> , M. Miller <sup>2</sup> , M. D. Lewan <sup>1</sup> (1. U.S. Geological Survey; 2. Cimarex Energy Company)	Study of Ground Water Quality Effects and Relation to the In-Situ Retorting Process in Oil Shale Exploration for Environmental Improvement: B. Nugraha, A. Pratama* (University of Padjadjaran)	
3:50	Changes in Porosity and Organic Matter Phase Distribution Determined by NMR Relaxometry Following Hydrous Pyrolysis Under Uniaxial Confinement: K. Washburn <sup>1</sup> , J. Birdwell <sup>2</sup> , M. Miller <sup>3</sup> , M. D. Lewan <sup>2</sup> (1. Weatherford Labs; 2. U.S. Geological Survey; 3. Cimarex Energy Co.)	Geology, Geophysics and Engineering: Proven Above Ground Adaptive Management-Driven Solutions Needed for Shale Gas and Tight Oil Transdisciplinary Successes in the Subsurface: G. M. Hanson (Louisiana State University)	
4:15	Clay Mineralogy of Shale Gas Reservoirs Through Integrating Infrared Spectroscopy and X-Ray Diffraction: H. Jafari Dargahi <sup>1</sup> , R. Rezaee <sup>1</sup> , B. Pejicic <sup>2</sup> (1. Curtin University; 2. Commonwealth Scientific and Industrial Research Organisation (CSIRO))	Mobile Clarification for Reuse of Produced and Flowback Water to Reduce Costs and Minimize Environmental Footprint: J. Anderson <sup>1</sup> , P. Horner <sup>2</sup> , B. Halldorson <sup>3</sup> (1. Select Energy Services; 2. Aqua-Pure Ventures Inc.; 3. Fountain Quail Water)	
4:40	Determination of In-Situ Hydrocarbon Volumes in Liquid Rich Shale Plays: G. E. Michael, J. Packwood, A. Holba (ConocoPhillips)	A Systems Framework for Resource Exploitation and Conflict Mitigation: D. Nummedal, J. McCray (Colorado School of Mines)	



\*Denotes presenter other than first author

			<b>Room 205/207</b>
			<b>Transportation and Processing Capacity of Market Infrastructure in Emerging Plays</b> Moderator: Luis Baez
		<b>8:25</b>	<b>Introductory Remarks</b>
		<b>8:30</b>	<b>Burt Jones</b> , Vice President, USA Midstream, EnCana Oil & Gas (USA) Inc.
		<b>8:40</b>	<b>Elizabeth Spomer</b> , Senior Vice President, Business Development, BG Group
		<b>8:50</b>	<b>David Barth</b> , Senior Director, Business Development, DCP Midstream
		<b>9:00</b>	<b>Interactive Panel Question and Answers</b>
		<b>9:30</b>	<b>Audience Question and Answer</b>
			<b>Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales</b> Moderator: Scott W. Tinker
		<b>10:50</b>	<b>Introductory Remarks</b>
		<b>10:55</b>	<b>Scott Tinker</b> , Director, Bureau of Economic Geology and State Geologist of Texas
		<b>11:05</b>	<b>Katie Smye</b> , Postdoctoral Fellow, University of Texas at Austin
		<b>11:15</b>	<b>Svetlana Ikonnikova</b> , Research Associate/Energy Economist, Bureau of Economic Geology, University of Texas at Austin
		<b>11:25</b>	<b>John Browning</b> , Senior Research Fellow, Bureau of Economic Geology, University of Texas at Austin
		<b>11:35</b>	<b>Gurcan Gulen</b> , Research Associate, Bureau of Economic Geology, University of Texas at Austin
		<b>11:45</b>	<b>Questions and Answers</b>
	<b>Room 505/506/507</b>		<b>Room 205/207</b>
	<b>Government Regulations that Affect Unconventional Resource Development</b> Moderator: Edith Allison		<b>Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening</b> Co-Chairs: R. D. Roadifer and P. M. Basinski
<b>1:25</b>	<b>Introductory Remarks</b>	<b>1:25</b>	<b>Introductory Remarks</b>
<b>1:30</b>	<b>Mike Smith</b> , Executive Director of the Interstate Oil and Gas Compact Commission	<b>1:30</b>	<b>Dynamics of Thermogenic and Late-Stage Biogenic Gas Generation in Coalbed Methane Reservoirs of the Black Warrior Basin:</b> J. Pashin (Geological Survey of Alabama)
<b>1:55</b>	<b>Lonnie R. Bagley</b> , Deputy State Director, Energy, Lands and Minerals, Colorado State Office, Bureau of Land Management	<b>1:55</b>	<b>Measurement of Relative Permeability of Coal to Gas and Water:</b> Y. Ham <sup>1</sup> , A. Kantzas <sup>2</sup> (1. University of Calgary; 2. H.O.R. Heavy Oil Recovery Technologies Ltd.)
<b>2:20</b>	<b>Doug Hock</b> , Director of Community/Public Relations, EnCana Oil & Gas (USA) Inc.	<b>2:20</b>	<b>Effects of Net Stress on Two-Phase Flow in Coal Fractures:</b> D. A. Alexis <sup>1</sup> , Z. T. Karpyn <sup>1</sup> , T. Ertekin <sup>1</sup> , D. Crandall <sup>2</sup> (1. Pennsylvania State University; 2. U.S. Department of Energy)
<b>2:45</b>	<b>Matthew Lepore</b> , Director of Colorado Oil and Gas Conservation Commission	<b>2:45</b>	<b>Havlena Odeh Method Solution for Coalbed Methane Reservoirs:</b> M. Watson <sup>1</sup> , J. Seidle <sup>2</sup> (1. Texas Tech University; 2. MHA Petroleum Consultants)
<b>3:10</b>	<b>Discussion</b>	<b>3:10</b>	<b>Refreshment Break in the Four Seasons Lobby</b>
		<b>3:25</b>	<b>Assessing and Advancing a CBM Resource Play Towards Commerciality — A Case Study from the UK:</b> T. L. Hower <sup>1</sup> , J. B. Aldrich <sup>2</sup> , J. Sipeki <sup>1</sup> (1. MHA Petroleum Consultants; 2. Dart Energy)
		<b>3:50</b>	<b>Facimage™ Modeling as a Substitute for Gas Content from Core Desorption and for Real Time Facies Analysis:</b> P. Rabiller <sup>2</sup> , P. J. Boles <sup>1</sup> , H. Dewhurst <sup>3</sup> (1. Future Tec Pty Ltd; 2. Rabiller Geoconsulting; 3. Petroalibion)
		<b>4:15</b>	<b>Maintaining Flexibility During the CBM Exploration Execution, Barito Basin, South Kalimantan, Indonesia:</b> S. L. Dougherty <sup>1</sup> , S. Rahardjanto <sup>1</sup> , K. Petersen <sup>1</sup> , A. Pujobroto <sup>2</sup> (1. ExxonMobil Indonesia; 2. PT Bartio Basin Gas)
		<b>4:40</b>	<b>Coal Seam/Bed Methane in Northern Louisiana: Investigations at the University of Louisiana at Lafayette:</b> G. L. Kinsland, K. Egedahl (University of Louisiana)

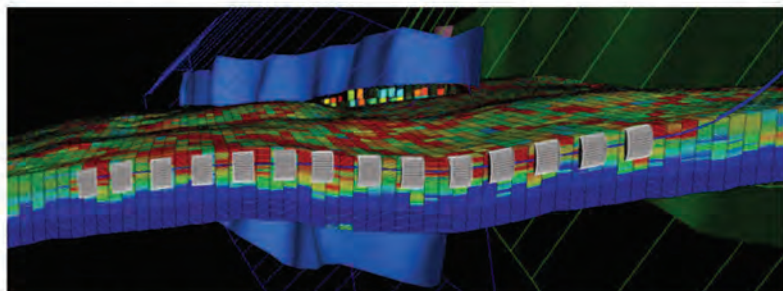


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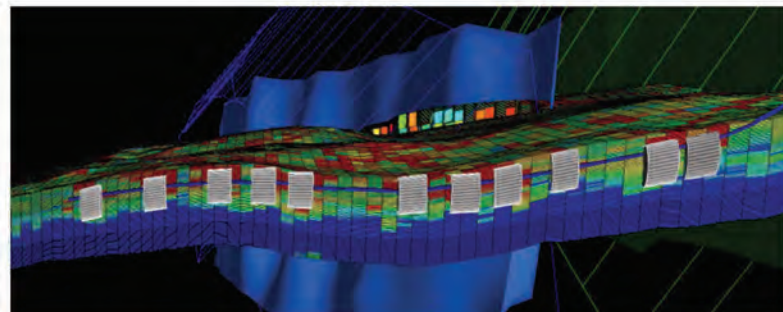
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Monday Afternoon ePapers		
	Station B	Station C
	<b>Theme 6: Other Unconventional Reservoirs</b> Co-Chairs: J. Boak and T. S. Collett	<b>Theme 11: Pore Scale Imaging and Computation</b> Co-Chairs: T. Olson and M. Prasad
1:30	<b>Use of XRF Elemental Data to Quantify Mineralogy and Reservoir Properties of an Upper Cretaceous Oil and Gas Shale Reservoir, Eastern Saskatchewan and Western Manitoba:</b> S. Hosseini <sup>1</sup> , P. Kent Pedersen <sup>1</sup> , R. Spencer <sup>1</sup> , M. Nicolas <sup>2</sup> (1. University of Calgary; 2. Manitoba Geological Survey)	<b>Predicting Effective Transport Properties for Shale Gas: From Nano-Pores to Reservoir Units:</b> J. Ma, G. D. Couples, Z. Jiang, R. van Dijke (Heriot-Watt University)
1:55	<b>Reservoirs that Are Not in Capillary Pressure Equilibrium:</b> M. E. Hoffman (Safford Exploration, Inc.)	<b>SEM-Based Cathodoluminescence Imaging for Discriminating Quartz Types in Mudrocks:</b> K. L. Milliken (Bureau of Economic Geology)
2:20	<b>Novel Approach to Determining Unconsolidated Reservoir Properties: Fabric and Flow in Oil Sands:</b> J. D. Bell, M. P. Maraj (London South Bank University)	<b>Integration of Different Imaging Methodologies to Study Shale Sample Heterogeneity:</b> W. Yang (Dawn Laboratories)
	<b>Station A</b>	
	<b>Theme 15: Fluid Behaviors</b> Co-Chairs: R. Ambrose and TBD	
2:45	<b>Numerical Minimum Miscibility Pressure Determination in Conventional and Unconventional Reservoirs:</b> T. Weldu Teklu <sup>1</sup> , H. Kazemi <sup>1</sup> , X. Yin <sup>1</sup> , R. M. Graves <sup>1</sup> , A. M. Al-Sumaiti <sup>2</sup> (1. Colorado School of Mines; 2. The Petroleum Institute)	<b>Experimental Study of Green River Oil Shale Pyrolysis:</b> T. Le Doan <sup>2</sup> , P. Allix <sup>2</sup> , F. Behar <sup>2</sup> , B. Corre <sup>2</sup> , A. Burnham <sup>3</sup> , R. L. Kleinberg <sup>*1</sup> , A. Pomerantz <sup>1</sup> (1. Schlumberger; 2. TOTAL; 3. American Shale Oil LLC)
		<b>Enhancing SEM Grayscale Images Through Pseudocolor Conversion: Examples from Eagle Ford, Haynesville, and Marcellus Shales:</b> W. Camp <sup>1</sup> , B. Wawak <sup>2</sup> (1. Anadarko Petroleum; 2. Core Laboratories)
		<b>Station C</b>
		<b>Theme 19: 3-D Multi-Component and Processing</b> Co-Chairs: J. O'Brien and R. Ray
3:10	<b>Do Gas Hydrates Occur in Alaminos Canyon, Gulf of Mexico?:</b> B. C. Tost, A. Cook (Ohio State University)	<b>3-D Geological Interpretation Examples in Unconventional Shale Reservoirs:</b> R. Dommissé (AGM)
3:35	<b>Importance of U.S. Oil Shale:</b> G. Vawter (National Oil Shale Association)	
4:00	<b>Interfacial Tension and Mineral Adhesion Properties of Cyclopentane Hydrate:</b> Z. M. Aman <sup>1</sup> , L. E. Zerpa <sup>*1</sup> , W. Leith <sup>2</sup> , D. Sloan <sup>1</sup> , A. Sum <sup>1</sup> , C. Koh <sup>1</sup> (1. Colorado School of Mines; 2. Clarkson University)	
4:25	<b>Effect of Initial Water Saturation on the Elastic Properties of Hydrate-Bearing Sediments:</b> M. Rydzy <sup>1</sup> , K. C. Hester <sup>2</sup> , J. J. Howard <sup>2</sup> , M. Batzle <sup>1</sup> (1. Colorado School of Mines; 2. ConocoPhillips)	

\*Denotes presenter other than first author

Tuesday Morning ePapers			
Station A		Station B	Station C
<b>Theme 1: Developing an Exploration Program</b> Co-Chairs: J. O'Brien and D. N. Valteau		<b>Theme 12: Reservoir Monitoring</b> Co-Chairs: S. Maxwell and TBD	<b>Theme 18: Unconventional Geomechanics</b> Co-Chairs: A. N. Tutuncu and M. D. Zoback
9:00	<b>3-D Seismic Survey Design as a Foundation for Optimizing Unconventional Play Success:</b> W. Ritchie (Geokinetics Inc.)	<b>Integration of Active and Passive Surface Seismic for Understanding the Variations Observed During a Stimulation Campaign:</b> P. Primiero, G. Garcia Leiceaga, J. Le Calvez (Schlumberger)	<b>Characterization of Stress-Field Variation on Subsurface Faults in Surrounding Areas of Hydraulic Fracturing:</b> Q. Gao, Y. Cheng (West Virginia University)
9:25	<b>Data Driven Woodford Shale Risk Characterization:</b> J. Thokelson, P. Fox*, M. M. Kulkarni, J. M. Spaw, C. Williams (Marathon Oil Corp)	<b>Understanding Dynamic Behavior of Reservoirs During Microseismic Monitoring:</b> E. M. Chesnokov <sup>1</sup> , J. Rich <sup>2</sup> , Y. Metwalle <sup>1</sup> (1. University of Houston; 2. University of Oklahoma)	<b>Geomechanics of Fracture Density:</b> J. Wickham, X. Yu, R. McMullen (University of Texas)
Station A		Station C	
<b>Theme 8: Stimulated Volume and Fracture Prediction</b> Co-Chairs: S. Sonnenberg, M. Mullen and M. Kendrick		<b>Theme 19: Seismic Attributes for Sweet Spot Identification</b> Co-Chairs: R. Barrett and R. Ray	
9:50	<b>Ambient Fracture Imaging: A New Passive Seismic Method:</b> A. A. Lacazette, S. Fereja, C. Sicking, J. Vermilye, P. Geiser (Global Geophysical Services)		<b>Advanced Imaging and Inversion for Oil Production Estimates in Unconventional Resource Plays:</b> G. M. Johnson <sup>1</sup> , P. Miller <sup>2</sup> , D. Phillips <sup>2</sup> (1. WesternGeco; 2. Schlumberger)
10:15	<b>Rapid Discrete Fracture Analysis of Hydraulic Fracture Development in Naturally Fractured Reservoirs:</b> W. S. Dershowitz, H. Hooseinpour, M. Cottrell (Golder Associates Inc.)		<b>Fracture Detection Interpretation Beyond Conventional Seismic Approaches:</b> C. Kelley (IHS Energy Technical)
		Station B	
		<b>Theme 14: Geomodels and Reservoir Models</b> Co-Chairs: M. Sorrell and R. Ambrose	
10:40		<b>Compositional Modeling of Liquid-Rich Shales Considering Adsorption, Non-Darcy Flow Effects and Pore Proximity Effects on Phase Behavior:</b> X. Xiong <sup>1</sup> , D. Devegowda <sup>1</sup> , R. Sigal <sup>2</sup> , F. Civan <sup>1</sup> , A. Jamili <sup>1</sup> (1. University of Oklahoma; 2. Consultant)	<b>Risk Reduction for Prospecting in the Unconventional Niobrara Play:</b> T. Rebec (Geokinetics)



Tuesday Afternoon ePapers			
Station A		Station B	Station C
<b>Theme 1: Developing an Exploration Program</b> Co-Chairs: J. O'Brien and D. N. Valteau		<b>Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line</b> Co-Chairs: T. Collier and A. N. Tutuncu	<b>Theme 11: Shale Core Analysis</b> Co-Chairs: M. Prasad and P. Connolly
1:30		<b>Apparent Permeability of Liquid Rich Shales:</b> F. Appiah <sup>1</sup> , R. Moghanloo <sup>1</sup> , F. Javadpour <sup>2</sup> , A. Sevdorzi <sup>1</sup> (1. Texas A&M University; 2. University of Texas)	<b>Application of Uniaxial Confining-Core Clamp with Hydrous Pyrolysis in Petrophysical and Geochemical Studies of Source Rocks at Various Thermal Maturities:</b> M. D. Lewan, J. E. Birdwell (U.S. Geological Survey)
1:55	<b>A Case Study to Evaluate Shale Oil Production Performance Models with Actual Well Production Data:</b> H. Yuan, M. Bhuiyan, J. Xu (IHS Inc.)		<b>Pyrolysis and TOC Identification of Tight Oil Sweet Spots:</b> A. Maende, W. Weldon (Wildcat Technologies)
		Station B	
		<b>Theme 4: Unconventional Tight Oil and Tight Gas</b> Co-Chairs: S. Sonnenberg and M. Mullen	
2:20	<b>Stochastic Model and Sensitivity Analysis of the Economics of a "Shale" Development Program:</b> W. Fleckenstein <sup>1</sup> , J. Zimmermann <sup>2</sup> (1. Colorado School of Mines; 2. ABN AMRO)	<b>Reservoir Geometries and Facies Associations of Fluvial Tight-Gas Sands, Upper Williams Fork Fm, Rifle Gap, Colorado:</b> B. McDowell, P. Plink-Björklund (Colorado School of Mines)	<b>A Systematic Approach to Petrophysical Characterization of Organic-Rich Shales in Barnett and Eagle Ford Formations:</b> J. Zhou, C. Jung, M. Chenevert, M. Sharma (University of Texas)
	Station A		
	<b>Theme 2: Reservoir Modeling</b> Co-Chairs: S. Rhodes and R. Barrett		
2:45	<b>Concepts and Methods for the Recognition of Cyclicity in the Marcellus Shale of the Appalachian Basin NE USA:</b> O. O. Emmanuel <sup>2</sup> , S. Sonnenberg <sup>1</sup> (1. Colorado School of Mines; 2. BG Group Plc)	<b>Integration of Structure and Stratigraphy in Bone Spring Tight Oil Sandstones Using 3-D Seismic in the Delaware Basin, TX:</b> J. L. Allen, J. Desantis, K. Schwatz, D. Koglin (Chevron)	
			Station C
			<b>Theme 16: Drilling Optimization/Operations</b> Co-Chair: K. Stephenson and A. Nall
3:10	<b>The Role of Stratigraphic Architecture on Resource Distribution: An Example from the Niobrara Formation of the Denver-Julesburg Basin:</b> W. R. Drake <sup>1</sup> , S. J. Hawkins <sup>2</sup> , S. Lapierre <sup>1</sup> (1. Pioneer Natural Resources; 2. U.S. Geological Survey)	<b>Formation and Distribution of Tight Sand Gas Reservoirs in Upper Triassic, Sichuan Basin in China:</b> H. Wang, C. Bian, X. Zhao, W. Zecheng, L. Yongxin (Petrochina)	<b>Improving Cement Placement in Horizontal Wells of Shale Gas Reservoirs by Using Magneto-Rheological Fluids:</b> M. Ermila, M. Mokhtari* (Colorado School of Mines)
3:35	<b>Two Practical Methods to Determine Pore Pressure Regimes in the Spraberry and Wolfcamp Formations in the Midland Basin:</b> M. Friedrich, G. D. Monson (Pioneer Natural Resources)	<b>Controlling Effects of Overall Basin Uplift on Tight Sand Gas Resources — Case Study of Xujiache Formation in the Sichuan Basin and Upper Paleozoic in the Ordos Basin:</b> C. Bian, W. Zhao, H. Wang (Petrochina)	<b>Efficient Removal of Annular Fluids with Micro-Particulates:</b> J. Benkley, C. Brenneis (Halliburton Energy Services)
		Station B	
		<b>Theme 7: Formation Evaluation Unconventional Plays</b> Co-Chairs: M. Honarpour and P. Connolly	
4:00	<b>Modeling of Abnormal Fluid Pressure in Unconventional Plays Due to Uplift:</b> D. Xia, J. Wallace (Hess Corporation)	<b>Joint VTI and Mud Slowness Inversion Using Multiple Modes and Adaptive Weighting:</b> M. Collins (Halliburton)	<b>Cutting Generation Study Based on Cutter and Design Testing For Improved Drilling Performance:</b> F. Felderhoff, C. El Hakam* (Baker Hughes)
4:25		<b>Pattern Recognition in a Digital Age: A Gameboard Approach to Determining Petrophysical Parameters:</b> D. A. Krygowski, R. Cluff (The Discovery Group)	

\*Denotes presenter other than first author

Wednesday Morning ePapers			
Station A		Station B	Station C
<b>Theme 3: Shale Plays III: Going Global — New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies</b> Chair: P. M. Basinski		<b>Theme 4: Unconventional Tight Oil and Tight Gas Carbonates</b> Chair: S. Sonnenberg	<b>Theme 10: Flow Physics and Reservoir Models</b> Co-Chairs: M. Honarpour and K. E. Williams
9:00	<b>Characteristics of the Gidgealpa Group Composite Resource Play in the Cooper Basin, South Australia:</b> S. Menpes, A. J. Hill, D. M. Pepicelli* (South Australian Government)	<b>Multi-Fracture Stimulation Techniques Make Better Wells in Ultra-Low Permeability Oil Reservoirs:</b> C. Wang (PetroChina Changqing Oilfield Company)	<b>Image-Based Modeling of Flow in Natural Partially Cemented Fractures:</b> A. Tokan-Lawal, M. Prodanovic, P. Eichhubl (University of Texas)
9:25	<b>Shale Gas Assessment of the Carboniferous Prodelta Shales in the Western Black Sea Basin of Turkey:</b> S. Sen (Istanbul University)	<b>Gas-Water Two Phases Flow Characterization and its Influencing Factors in Low Permeability Tight Sandstone:</b> J. Fan <sup>2</sup> , H. Zhou <sup>1</sup> , S. Liu <sup>1</sup> , K. Liu <sup>3</sup> (1. Research Institute of Petroleum Exploration and Development; 2. Peking University; 3. CSIRO Earth Science and Resource Engineering)	<b>Non-Linearity in Decline Behavior of Unconventional Wells:</b> J. R. Gilman, S. Fadaei* (iReservoir.com, Inc.)
9:50	<b>Evaluation of the Carynginia Formation as a Potential Gas Shale Reservoir at Perth Basin, Western Australia:</b> H. Jafary Dargahi, R. Rezaee (Curtin University)	<b>Prediction of Buried-Hill Productive Carbonate Reservoirs using Electrical and Acoustic Image Logs, Ordovician Formation, China:</b> D. Wang <sup>1</sup> , G. Wei <sup>1</sup> , X. Zhao <sup>1</sup> , F. Zhou <sup>2</sup> , Z. Si <sup>2</sup> , F. Lin <sup>2</sup> , D. Liu <sup>2</sup> (1. Schlumberger; 2. PetroChina JiDong Oilfield Company)	<b>Stress-Dependent Permeability Anisotropy and Wettability of Shale Resources:</b> M. Mokhtari, A. N. Tutuncu (Colorado School of Mines)
10:15	<b>Constructing Meaningful Geologic Models of Shale Gas Systems: An Example from the Horn River Basin, Canada:</b> R. Jonk <sup>1</sup> , J. Allen <sup>2</sup> , L. Magennis <sup>1</sup> , K. Potma <sup>1</sup> , M. L. Wamsteeker <sup>1</sup> (1. Imperial Oil Resources; 2. Dalhousie University)	<b>Reservoir Characteristics and Evaluation Methods of Tight Lacustrine Carbonates: Example from Shulu Sag in Bohai Bay, China:</b> Z. Jiang, Q. Li (China University of Geosciences)	

## MOBILE INDUSTRIAL SOLUTIONS - CUSTOM CONFIGURATIONS



The image shows a blue industrial trailer with a white door and a spare tire mounted on the side. Above the trailer are technical drawings of the trailer from different angles, including a top view and side views with dimensions like '120" OVERALL HEIGHT' and '107" TRAILER HEIGHT'. The inTech TRAILERS logo is prominently displayed in the center, with 'inTech' in orange and 'TRAILERS' in black.

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	NAME	DAY	TIME	LOCATION	SESSION TITLE
A	Adams, John	Mon.	1:30 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
	Agrawal, Samarth	Wed.	8:30 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
	Ahmed, Ibraheem	Wed.	3:25 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
	Al Duhaikan, Mohammed	Mon.	2:45 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
	Alcantar-Lopez, Leo	Wed.	10:50 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
	Alexis, Dennis	Wed.	2:20 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
	Alfred, Dicman	Tue.	8:55 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
	Aljamaan, Hamza	Tue.	9:45 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
	Allan, Paul	Tue.	9:20 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
	Allen, Jessica	Tue.	2:45 p.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas
	Alqahtani, Adel	Mon.	2:45 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
	Anderson, Brian	Wed.	9:20 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
	Anderson, Jeffrey	Wed.	4:15 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
	Anderson, Thomas	Wed.	11:15 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
	Appiah, Francis	Tue.	1:30 p.m.	Exhibition Hall-Station B	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
B	Bachrach, Ran	Mon.	1:55 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
	Bagley, Lonnie	Wed.	1:55 p.m.	Room 505/506/507	Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development
	Barredo, Silvia	Tue.	9:45 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Barth, David	Wed.	8:50 a.m.	Room 205/207	Panel: Transportation and Processing Capacity of Market Infrastructure in Emerging Plays
	Basinski, Paul	Mon.	1:30 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
	Bassett, Jessica	Tue.	8:30 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
	Bazyleva, Ala	Wed.	11:40 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
	Bearinger, Doug	Wed.	2:20 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
	Bell, Julie	Mon.	2:20 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
	Bello, Hector	Mon.	2:45 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
	Belotti, Hugo	Tue.	2:45 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
	Benkley, James	Tue.	3:35 p.m.	Exhibition Hall-Station C	Theme 16: Drilling Optimization/Operations
	Berg, Charles	Tue.	2:45 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Bernard, Christopher	Tue.	1:55 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Bian, Congsheng	Tue.	3:35 p.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas
	Birdwell, Justin	Wed.	3:25 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	Boak, Jeremy	Wed.	9:45 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
	Bourgeois, Shon	Wed.	11:15 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
	Breyer, John	Wed.	4:15 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
	Brown, Morgan	Wed.	8:55 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
	Browning, John	Wed.	11:25 a.m.	Room 205/207	Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales
	Bryant, Ian	Wed.	9:20 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
	Bui, Binh	Tue.	9:45 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
C	Cakici, Mahmut	Tue.	4:15 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
	Camp, Wayne	Mon.	2:45 p.m.	Exhibition Hall-Station C	Theme 11: Pore Scale Imaging and Computation
	Castrell, Mark	Tue.	8:50 a.m.	Room 205/207	Panel: Nimble Independents: "Moving the Needle" with Innovation and Execution Excellence
	Chen, Dongxia	Tue.	3:50 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
	Chen, Dongxia	Tue.	4:40 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Chesnokov, Evgeny	Tue.	9:25 a.m.	Exhibition Hall-Station B	Theme 12: Reservoir Monitoring
	Chopra, Satinder	Wed.	10:50 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
	Chorn, Larry	Wed.	1:30 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
	Civan, Faruk	Wed.	1:30 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Clark, Brian	Tue.	3:50 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
	Clemons, Kristopher	Wed.	9:20 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
	Clemons, Kristopher	Wed.	11:15 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
	Cobb, Dylan	Wed.	8:55 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
	Colborne, Jacqueline	Tue.	2:45 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Collett, Timothy	Wed.	8:30 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs

# Speaker Cross Reference

	NAME	DAY	TIME	LOCATION	SESSION TITLE
	Collins, Mark	Tue.	4:00 p.m.	Exhibition Hall-Station B	Theme 7: Formation Evaluation Unconventional Plays
	Coopersmith, Ellen	Mon.	1:30 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
	Craft, J. Ross	Tue.	8:30 a.m.	Room 205/207	Panel: Nimble Independents: "Moving the Needle" with Innovation and Execution Excellence
	Cui, Albert	Wed.	2:20 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Curtis, John	Mon.	2:20 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
	Curtis, Mark	Wed.	9:20 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
<b>D</b>	Dahl, Jeremy	Wed.	2:45 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	de Ribet, Bruno	Wed.	1:55 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
	Deen, Tom	Tue.	10:50 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
	Degner, Dennis	Tue.	1:40 p.m.	Room 205/207	Panel: Making it Happen in the Field: Converting Technology into Dollars
	Delorme, Matthieu	Wed.	1:30 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
	Deng, Jack	Tue.	1:55 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
	Dershowitz, William	Tue.	10:15 a.m.	Exhibition Hall-Station A	Theme 8: Stimulated Volume and Fracture Prediction
	Dick, Karan	Mon.	4:40 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
	Djordjevic, Obren	Tue.	10:50 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
	Doe, Thomas	Wed.	11:15 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
	Dommissie, Robin	Mon.	3:10 p.m.	Exhibition Hall-Station C	Theme 19: 3-D Multi-Component and Processing
	Dong, Cuiyu	Wed.	2:45 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
	Donovan, Arthur	Tue.	1:30 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
	Dougherty, Susan	Wed.	4:15 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
	Drake, William	Tue.	3:10 p.m.	Exhibition Hall-Station A	Theme 2: Reservoir Modeling
	Driskill, Brian	Wed.	11:15 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
<b>E</b>	Edman, Janell	Mon.	1:55 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
	Edwards, Brett	Tue.	9:45 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
	Ejofodomi, Efejera	Tue.	1:30 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
	El Hakam, Carmel	Tue.	4:00 p.m.	Exhibition Hall-Station C	Theme 16: Drilling Optimization/Operations
	Elias, Rouven	Wed.	2:20 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	Emmanuel, Olusanmi	Tue.	2:45 p.m.	Exhibition Hall-Station A	Theme 2: Reservoir Modeling
	Emmanuel, Olusanmi	Tue.	4:15 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
	Enayatpour, Saeid	Wed.	4:40 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
	Enderlin, Milton	Mon.	1:30 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
	Evenick, Jonathan	Mon.	1:55 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
<b>F</b>	Fadaei, Sepehr	Wed.	9:25 a.m.	Exhibition Hall-Station C	Theme 10: Flow Physics and Reservoir Models
	Fairfield, Ryan	Mon.	2:20 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
	Fairhurst, William	Tue.	10:50 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Fall, Andras	Wed.	11:40 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
	Fan, Junjia	Wed.	9:25 a.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Farhadi Nia, Shahram	Wed.	3:25 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Fassihi, Reza	Mon.	1:55 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Fishman, Neil	Wed.	2:45 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
	Fleckenstein, William	Tue.	2:20 p.m.	Exhibition Hall-Station A	Theme 1: Predicting Performance and Economics with Limited Data
	Fontana, John	Wed.	1:30 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
	Fox, Phil	Tue.	9:25 a.m.	Exhibition Hall-Station A	Theme 1: Developing an Exploration Program
	Friedrich, Mickey	Tue.	3:35 p.m.	Exhibition Hall-Station A	Theme 2: Reservoir Modeling
	Friedrich, Mickey	Wed.	2:45 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
<b>G</b>	Gading, Marita	Wed.	9:45 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
	Gale, Julia	Wed.	8:30 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
	Gao, Qian	Tue.	9:00 a.m.	Exhibition Hall-Station C	Theme 18: Unconventional Geomechanics
	Garcia, Mariano	Tue.	11:40 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Geza, Mengistu	Wed.	2:20 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
	Goldstein, Barry	Wed.	1:55 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
	Gonzalez, Jorge	Tue.	8:55 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
	Greenwood, Jeremy	Tue.	1:30 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Grieser, William	Tue.	1:55 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Guest, Mark	Tue.	4:15 p.m.	Room 205/207	Panel: Sustainability, Job Creation and Public Image
	Gulen, Gurcan	Wed.	11:35 a.m.	Room 205/207	Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales



NAME	DAY	TIME	LOCATION	SESSION TITLE
Guo, Shiguang	Wed.	9:20 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
Gutierrez, Claudia	Wed.	2:20 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
Gutierrez, Marte	Mon.	2:20 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
<b>H</b> Hager, Dave	Mon.	9:45 a.m.	Mile High Ballroom 1&2	Opening Plenary Session
Ham, Yeonnie	Wed.	1:55 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
Han, Gang	Wed.	2:45 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
Hanson, Gary	Wed.	3:50 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
Heidari, Zoya	Tue.	11:40 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
Heidari, Zoya	Tue.	9:20 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
Heller, Robert	Wed.	1:55 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
Helms, Lynn D	Tue.	3:55 p.m.	Room 205/207	Panel: Sustainability, Job Creation and Public Image
Higgins-Borchardt, Shannon	Mon.	1:55 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
Hill, Peter	Tue.	8:40 a.m.	Room 205/207	Panel: Nimble Independents: "Moving the Needle" with Innovation and Execution Excellence
Hock, Doug	Wed.	2:20 p.m.	Room 505/506/507	Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development
Hoffman, Monty	Mon.	1:55 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
Hosseinienejad, Somayeh	Mon.	1:30 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
Hower, Timothy	Wed.	3:25 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
Hu, Yinan	Tue.	3:50 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
Hull, Robert	Tue.	4:15 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
<b>I</b> Ikonnikova, Svetlana	Wed.	11:15 a.m.	Room 205/207	Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales
Illich, Harold	Mon.	2:45 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
Ingram, Stephen	Wed.	8:55 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
<b>J</b> Jafary Dargahi, Hanieh	Wed.	9:50 a.m.	Exhibition Hall-Station A	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Jafary Dargahi, Hanieh	Wed.	4:15 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
Jäger, Hartmut	Tue.	1:30 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Jaripatke, Omkar	Tue.	2:20 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
Jayakumar, Ramkumar	Tue.	10:50 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
Jayakumar, Ramkumar	Wed.	9:20 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
Jayaram, Vikram	Mon.	4:15 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
Jiang, Zaixing	Wed.	10:15 a.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
Jin, C.j.	Tue.	11:40 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
Jin, Hui	Mon.	4:15 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
Johnson, Gregory	Tue.	9:50 a.m.	Exhibition Hall-Station C	Theme 19: Seismic Attributes for Sweet Spot Identification
Jones, Burt	Wed.	8:30 a.m.	Room 205/207	Panel: Transportation and Processing Capacity of Market Infrastructure in Emerging Plays
Johri, Madhur	Wed.	9:45 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
Jonk, Rene	Wed.	10:15 a.m.	Exhibition Hall-Station A	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Jung, Chang Min	Tue.	9:20 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
<b>K</b> Kalakkadu Venkatasubramanian, Srinivasan	Tue.	11:15 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
Kelley, Clifford	Tue.	10:15 a.m.	Exhibition Hall-Station C	Theme 19: Seismic Attributes for Sweet Spot Identification
Kim, Yonghwee	Tue.	11:15 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
Kinsland, Gary	Wed.	4:40 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
Kleinberg, Robert	Mon.	2:45 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
Kleinberg, Robert	Wed.	10:50 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
Kligfield, Roy	Wed.	2:45 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
Knackstedt, Mark	Wed.	8:30 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
Krygowski, Daniel	Tue.	4:25 p.m.	Exhibition Hall-Station B	Theme 7: Formation Evaluation Unconventional Plays
Krzywiec, Piotr	Mon.	4:40 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program

# Speaker Cross Reference

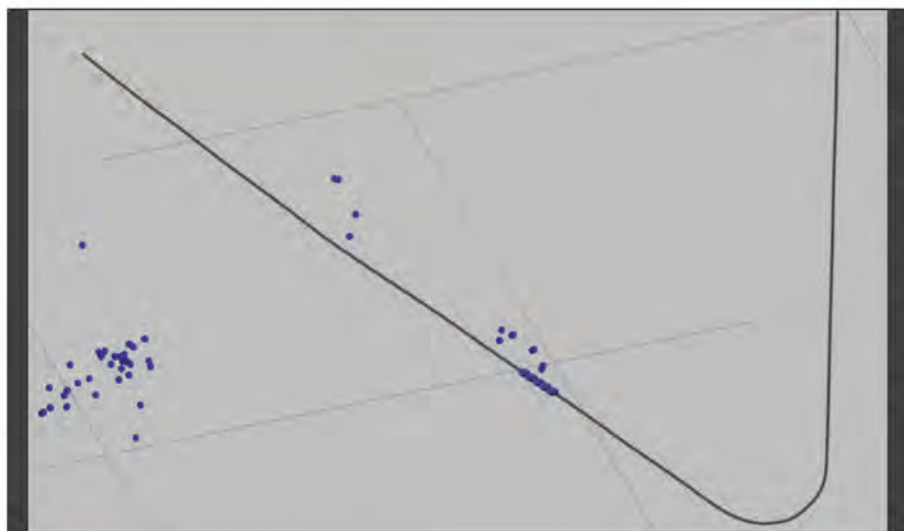
	NAME	DAY	TIME	LOCATION	SESSION TITLE
	Kumar, Sanyog	Mon.	1:30 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Kurtoglu, Basak	Mon.	4:40 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Kuuskras, Vello	Mon.	9:25 a.m.	Mile High Ballroom 1&2	Opening Plenary Session
L	Lacazette, Alfred	Tue.	9:50 a.m.	Exhibition Hall-Station A	Theme 8: Stimulated Volume and Fracture Prediction
	Lalehrokh, Farshad	Mon.	4:40 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
	Law, Ben	Tue.	11:15 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Lee, Boram	Wed.	8:55 a.m.	Room 201/203	Theme 6: Other Unconventional Reservoirs
	Lemmens, Herman	Wed.	3:50 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Lepore, Matthew	Wed.	2:45 p.m.	Room 505/506/507	Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development
	Leveille, Greg	Tue.	11:15 a.m.	Room 205/207	Panel: Technologies that May Transform the Future
	Lewan, M.	Tue.	1:30 p.m.	Exhibition Hall-Station C	Theme 11: Shale Core Analysis
	Liu, Chunlei	Tue.	8:55 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
	Ly, Chi	Tue.	2:20 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
M	Ma, Jingsheng	Mon.	1:30 p.m.	Exhibition Hall-Station C	Theme 11: Pore Scale Imaging and Computation
	Maende, Albert	Tue.	1:55 p.m.	Exhibition Hall-Station C	Theme 11: Shale Core Analysis
	Malayalam, Atif	Mon.	2:45 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Malpani, Raj	Wed.	2:20 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
	Maucec, Marko	Wed.	8:55 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
	May, Jeffrey	Tue.	1:55 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
	McDowell, Bryan	Tue.	2:20 p.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas
	Meek, Robert	Wed.	1:55 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
	Melton, Brad	Tue.	10:50 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
	Merkle, Stefan	Wed.	11:40 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
	Metzner, David	Mon.	1:30 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
	Michael, Gerald	Wed.	4:40 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	Michel, Guillermo	Mon.	3:50 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Michel, Guillermo	Tue.	2:45 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
	Michelena, Reinaldo	Wed.	8:30 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
	Milad, Benmadi	Tue.	11:15 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
	Miller, Jeff	Mon.	3:50 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
	Milliken, Kitty	Mon.	1:55 p.m.	Exhibition Hall-Station C	Theme 11: Pore Scale Imaging and Computation
	Mohan, Kshitij	Tue.	9:20 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
	Mohan, Kshitij	Wed.	4:15 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
	Mokhtari, Mehdi	Tue.	9:20 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
	Mokhtari, Mehdi	Tue.	3:10 p.m.	Exhibition Hall-Station C	Theme 16: Drilling Optimization/Operations
	Mokhtari, Mehdi	Wed.	9:50 a.m.	Exhibition Hall-Station C	Theme 10: Flow Physics and Reservoir Models
	Molenaar, Mathieu	Mon.	2:45 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
	Moncada, Katharine	Mon.	3:50 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
	Mullen, Mike	Tue.	10:55 a.m.	Room 205/207	Panel: Technologies that May Transform the Future
	Muncrief, Rick	Tue.	1:30 p.m.	Room 205/207	Panel: Making it Happen in the Field: Converting Technology into Dollars
N	Nagarajan, Narayana	Tue.	1:30 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
	Nakamura, Kazumi	Tue.	3:50 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Nelson, Philip	Tue.	9:20 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Nummedal, Dag	Wed.	4:40 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
O	O'Farrell, Colin	Wed.	9:45 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
	Offenberger, Randy	Tue.	8:30 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
	Ovaysi, Saeed	Wed.	11:40 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
P	Pagels, Markus	Wed.	4:15 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Pashin, Jack	Wed.	1:30 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
	Patel, Hemali	Mon.	3:50 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
	Paterniti, Melanie	Tue.	8:30 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Pedersen, Per	Tue.	8:55 a.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas
	Peebles, Ross	Wed.	10:50 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
	Pepicelli, Dominic	Wed.	9:00 a.m.	Exhibition Hall-Station A	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies



NAME	DAY	TIME	LOCATION	SESSION TITLE
Perry, Sandra	Mon.	4:15 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
Petrie, Elizabeth	Mon.	4:15 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
Plaksina, Tatyana	Wed.	3:50 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
Portis, Douglas	Mon.	2:45 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
Portis, Douglas	Mon.	4:15 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
Pratama, Andra	Wed.	3:25 p.m.	Room 201/203	Theme 20: Health, Safety and Environmental Issues
Pratikno, Helmi	Tue.	11:40 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
Primiero, Paolo	Tue.	9:00 a.m.	Exhibition Hall-Station B	Theme 12: Reservoir Monitoring
<b>R</b> Rabiller, Philippe	Wed.	3:50 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
Rahmani Didar, Behnaz	Wed.	1:55 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
Raji, Munira	Tue.	4:40 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Ramirez, Kelly	Tue.	9:45 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
Ramirez-Caro, Daniel	Mon.	4:40 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
Rauch-Davies, Marianne	Wed.	9:45 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
Rebec, Tony	Tue.	10:40 a.m.	Exhibition Hall-Station C	Theme 19: Seismic Attributes for Sweet Spot Identification
Rebec, Tony	Wed.	11:40 a.m.	Room 401/402/403/404	Theme 19: 3-D Multi-Component and Processing
Reeder, Stacy	Tue.	8:30 a.m.	Room 201/203	Theme 7: Formation Evaluation Unconventional Plays
Reine, Carl	Wed.	10:50 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
Ritchie, Walt	Tue.	9:00 a.m.	Exhibition Hall-Station A	"Theme 1: Developing an Exploration Program "
Roberts, Tom	Tue.	11:40 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
Roth, Michael	Wed.	11:15 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
Roth, Murray	Mon.	4:40 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
Roth, Murray	Wed.	11:40 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
Rutledge, James	Mon.	2:20 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
Rydz, Marisa	Mon.	4:25 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
<b>S</b> Safari, Reza	Mon.	4:40 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
Sahoo, Ajit	Wed.	8:30 a.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification I
Saunders, Colin	Tue.	4:15 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Scoggins, M.W	Mon.	9:05 a.m.	Mile High Ballroom 1&2	Opening Plenary Session
Scott, Kyle	Mon.	4:15 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
Sen, Samil	Wed.	9:25 a.m.	Exhibition Hall-Station A	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Sheffield, Scott	Mon.	8:45 a.m.	Mile High Ballroom 1&2	Opening Plenary Session
Sheng, James	Wed.	3:50 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
Sherwood, Owen	Wed.	1:30 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
Singh, Harpreet	Tue.	2:20 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
Sipeki, Julianna	Tue.	11:15 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
Slatt, Roger	Tue.	2:20 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
Slocombe, Robin	Wed.	10:50 a.m.	Four Seasons Ballroom 1	Theme 17: Completion Optimization - Improved Recovery, Open vs. Cased Hole
Smith, Langhorne	Tue.	11:40 a.m.	Four Seasons Ballroom 1	Theme 2: Reservoir Modeling
Smith, Lee	Tue.	11:15 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
Smith, Mike	Wed.	1:30 p.m.	Room 505/506/507	Energy Policy Forum: Government Regulations that Affect Unconventional Resource Development
Smye, Katie	Wed.	11:05 a.m.	Room 205/207	Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales
Snyder, Horace	Tue.	2:20 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
Sonnenberg, Stephen	Tue.	1:30 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
Sorensen, James	Wed.	3:25 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
Spalding, Tom	Tue.	1:50 p.m.	Room 205/207	Panel: Making it Happen in the Field: Converting Technology into Dollars
Spaw, Joan	Tue.	2:45 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
Spaw, Joan	Tue.	4:40 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
Spomer, Elizabeth	Wed.	8:40 a.m.	Room 205/207	Panel: Transportation and Processing Capacity of Market Infrastructure in Emerging Plays
Stephens, Andrew	Mon.	3:50 p.m.	Room 401/402/403/404	Theme 19: Seismic Attributes for Sweet Spot Identification
Stephens, Mike	Tue.	8:55 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
Stephenson, Ben	Tue.	4:40 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids

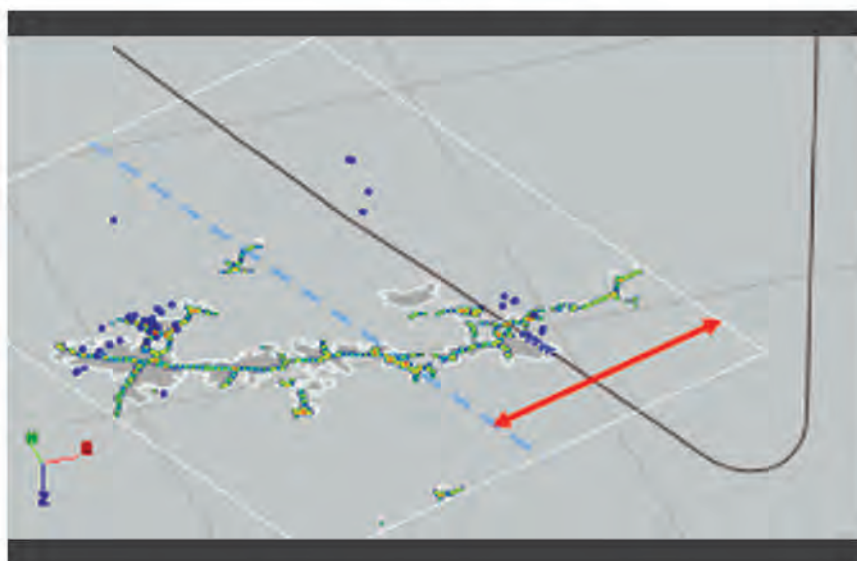
	NAME	DAY	TIME	LOCATION	SESSION TITLE
	Stilwell, Heather	Tue.	3:50 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Suliman, Bailo	Tue.	8:55 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
	Swan, Monte	Mon.	2:20 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
	Swan, Monte	Wed.	3:50 p.m.	Four Seasons Ballroom 2&3	Theme 2: Play and Sweet Spot Identification II
<b>T</b>	Teklu, Tadesse Weldu	Mon.	2:45 p.m.	Exhibition Hall-Station A	Theme 15: Fluid Behaviors
	Theloy, Cosima	Tue.	2:20 p.m.	Room 501/502/503/504	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Tinker, Scott	Wed.	10:55 a.m.	Room 205/207	Bottom Up Integrated Shale Gas Reserve and Production Forecasting: Comparison of the Barnett, Fayetteville, Haynesville Shales
	Tinnin, Beau	Tue.	4:15 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Tokan-Lawal, Adenike	Wed.	9:00 a.m.	Exhibition Hall-Station C	Theme 10: Flow Physics and Reservoir Models
	Tost, Brian	Mon.	3:10 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
	Tovar, Francisco	Wed.	4:15 p.m.	Four Seasons Ballroom 1	Theme 8: Stimulated Volume and Fracture Prediction
<b>V</b>	Valleau, Doug	Tue.	11:05 a.m.	Room 205/207	Panel: Technologies that May Transform the Future
	Van Puymbroeck, Luc	Tue.	10:50 a.m.	Room 401/402/403/404	Theme 16: Drilling Optimization/Operations
	Vawter, Glenn	Mon.	3:35 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
	Vega, Bolivia	Wed.	9:45 a.m.	Four Seasons Ballroom 4	Theme 11: Pore Scale Imaging and Computation
	Ventura, Jeff	Tue.	8:30 a.m.	Four Seasons Ballroom 4	Theme 1: Predicting Performance and Economics with Limited Data
	Vera, Fabian	Tue.	9:45 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
	Vincent, Mike	Tue.	2:45 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
<b>W</b>	Waite, Lowell	Mon.	2:20 p.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays I: Practical Lessons Learned on the Road to New Resources
	Walls, Joel	Tue.	1:55 p.m.	Four Seasons Ballroom 4	Theme 3: Shale Plays III: Going Global-New Unconventional Workflows, Integrated Sweet Spot Assessments, and Case Studies
	Wang, Chengwang	Wed.	9:00 a.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Wang, Da Li	Wed.	9:50 a.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas-Carbonates
	Wang, Hongjun	Tue.	3:10 p.m.	Exhibition Hall-Station B	Theme 4: Unconventional Tight Oil and Tight Gas
	Wang, Weiwei	Wed.	8:55 a.m.	Room 501/502/503/504	Theme 8: Importance of Natural Fractures
	Washburn, Kathryn	Wed.	3:50 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	Washburn, Kathryn	Wed.	4:40 p.m.	Four Seasons Ballroom 4	Theme 11: Shale Core Analysis
	Watson, Marshall	Wed.	2:45 p.m.	Room 205/207	Theme 5: CBM: Integrated Characterization and Optimization Driving a Global Reawakening
	Welker, Carrie	Mon.	1:55 p.m.	Four Seasons Ballroom 4	Theme 1: Developing an Exploration Program
	Whitsitt, William	Tue.	4:05 p.m.	Room 205/207	Panel: Sustainability, Job Creation and Public Image
	Wickham, John	Tue.	9:25 a.m.	Exhibition Hall-Station C	Theme 18: Unconventional Geomechanics
	Wiener, Jack	Tue.	4:40 p.m.	Room 401/402/403/404	Theme 9: Well Design and Geosteering
	Wilson, Edith	Tue.	3:50 p.m.	Four Seasons Ballroom 1	Theme 2: Core Evaluation and Depositional Environment
<b>X</b>	Xia, Daniel	Tue.	4:00 p.m.	Exhibition Hall-Station A	Theme 2: Reservoir Modeling
	Xiong, Xinya	Tue.	10:40 a.m.	Exhibition Hall-Station B	Theme 14: Geomodels and Reservoir Models
	Xu, Tao	Wed.	4:40 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
	Xue, Han	Mon.	1:55 p.m.	Room 501/502/503/504	Theme 12: Reservoir Monitoring
<b>Y</b>	Yan, Bicheng	Tue.	4:40 p.m.	Room 201/203	Theme 10: Flow Physics and Reservoir Models
	Yang, Daegil	Mon.	3:50 p.m.	Room 205/207	Theme 18: Unconventional Geomechanics
	Yang, Wendy	Mon.	2:20 p.m.	Exhibition Hall-Station C	Theme 11: Pore Scale Imaging and Computation
	Yang, Yi	Tue.	8:30 a.m.	Four Seasons Ballroom 2&3	Theme 3: Shale Plays II: "Breaking" Assessments that Move the Bottom Line
	Yates, Malcolm	Tue.	1:55 p.m.	Four Seasons Ballroom 2&3	Theme 17: Completion Optimization - Design, Integration and Fluids
	Yu, Shaoyong	Mon.	2:20 p.m.	Four Seasons Ballroom 1	Theme 14: Geomodels and Reservoir Models
	Yuan, Hong	Tue.	1:55 p.m.	Exhibition Hall-Station A	Theme 1: Predicting Performance and Economics with Limited Data
<b>Z</b>	Zargari, Saeed	Mon.	4:15 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
	Zerpa, Luis	Mon.	4:00 p.m.	Exhibition Hall-Station B	Theme 6: Other Unconventional Reservoirs
	Zhang, Tongwei	Wed.	1:55 p.m.	Room 401/402/403/404	Theme 13: Source Rock Characterization
	Zhang, Yijia	Wed.	1:30 p.m.	Room 501/502/503/504	Theme 15: Fluid Behaviors
	Zheng, Limin	Mon.	3:50 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications
	Zhou, Junhao	Tue.	2:20 p.m.	Exhibition Hall-Station C	Theme 11: Shale Core Analysis
	Zimbrick, Grant	Mon.	1:30 p.m.	Room 201/203	Theme 13: Organic Geochemical Applications





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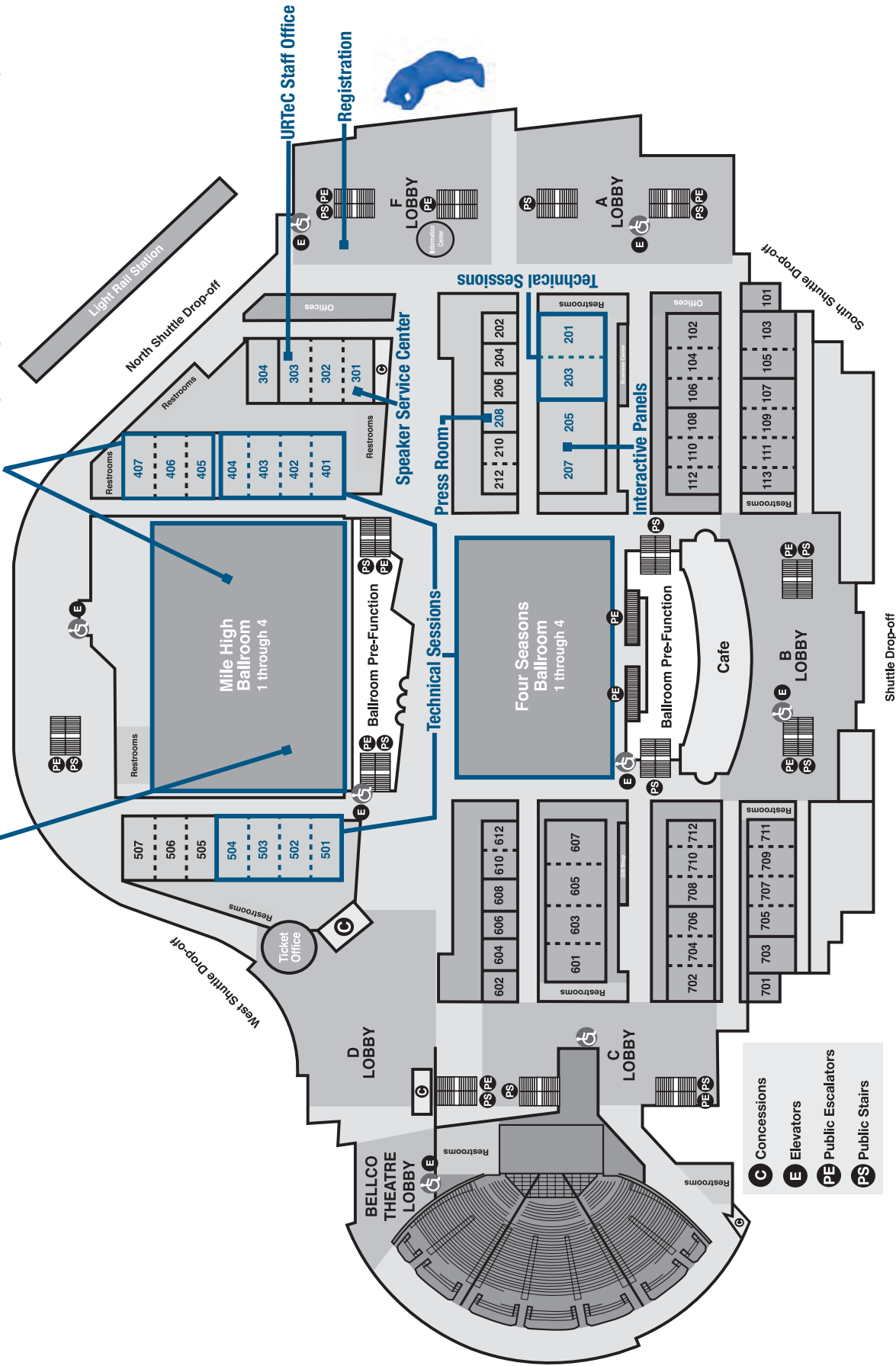
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Opening Plenary Sessions (Mile High Ballroom 1&2)      Topical Breakfasts & Luncheons (Mile High Ballroom 4 & Rooms 405/406/407)





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Main Entrance

Exhibition Sales & Service Office

Freeman Service Desk

**The Exhibition is in Halls D/E/F of the Colorado Convention Center. Main entrance is located at the top of the F Lobby Escalators across from the Blue Bear.**

Monday ..... 10:00 a.m.–7:00 p.m. (Opening Reception)  
 Tuesday ..... 9:00 a.m.–6:00 p.m. (Networking Reception)  
 Wednesday ..... 9:00 a.m.–2:00 p.m.



## Exhibition Hall Highlights

### Refreshment Breaks

Grab a cup of coffee or tea with the exhibitors during the breaks in the morning and afternoons.

- Morning Refreshment Breaks: 10:10 a.m.–10:50 a.m. (Monday, Tuesday & Wednesday)
- Afternoon Refreshment Breaks: 3:10 p.m.–3:50 p.m. (Monday and Tuesday)

### Breakfast Bites

Stretch your legs during the Opening Plenary session and come grab a quick snack as we open the Exhibition Hall Monday morning.

- Monday, 12 August 10:00 a.m.–11:00 a.m.

### Opening Reception

A great opportunity to mingle with exhibitors and relax with a drink and hors d'oeuvres in the exhibition hall.

- Monday, 12 August 5:00 p.m.–7:00 p.m.

### Networking Reception

Another opportunity to network with colleagues and exhibitors with a drink and light snacks.

- Tuesday, 13 August 5:00 p.m.– 6:00 p.m.

### Core Museum

Be sure to visit the Core Museum located inside the Exhibition Hall where there are more than 10 formations on display including Eagle Ford, Avalon, Utica and Wolfcamp to name a few.

- Monday – Wednesday during Exhibition hours

### ePapers

Come listen to a live ePaper presentation or visit the On-Demand station to view at your convenience. In addition to the Oral Presentations, URTeC will also feature ePapers which are an electronic version of a traditional oral presentation in a PowerPoint format available during the conference. Conveniently located inside the Exhibition Hall, there are three LIVE presentations and one On-Demand station with four monitors.

- Monday – Wednesday during open exhibition hours

### Cyber Café Booth

If you need to check your email or just surf the web, visit booth 1419 inside the Exhibition Hall.

### URTeC 2014 Booth

Start making your plans to attend, exhibit and/or sponsorship (or all three) at the 2nd Annual Unconventional Resources Technology Conference.

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*Note: Children under the age of 16 will not be allowed in the exhibition hall during setup and teardown. Children 13 and older are allowed inside the exhibition hall during open hours provided they are properly registered and wearing their badges. During exhibition hours, children under the age of 13 will not be allowed into any activities within the exhibition hall, including any receptions, unless they are young or small enough to be confined to a stroller, backpack harness or frontpack.*



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## Map of Denver



1. Hyatt Regency Denver



2. Embassy Suites Denver



3. Hilton Garden Inn



4. The Curtis — a DoubleTree by Hilton Hotel



5. Denver Marriott City Center



6. Crowne Plaza Denver



7. Hampton Inn & Suites Denver Downtown



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A full service business center is located just off Lobby A in the red-carpeted corridor. On-site printing and shipping services are available. In addition to DHL, FedEx and UPS shipping services, the business center has workstations with high-speed internet, as well as office supplies, copy, fax and printing services. Send your faxes to +1 720 904 0796 for pick-up at your convenience.

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Free internet service is available in the Cyber C@fé located in the exhibition hall during open show hours.

**Location:** Exhibition Booth 1419

## Exhibition

The Exhibition will be located in Halls E/F on the upper level with the main entrance directly above registration.

Monday, 12 August ..... 10:00 a.m.–7:00 p.m.

Tuesday, 13 August ..... 9:00 a.m.–6:00 p.m.

Wednesday, 14 August ..... 9:00 a.m.–2:00 p.m.

### Exhibitor Sales & Service Office

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**Phone Number:** +1 303 228 8376

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Sunday, 11 August ..... 8:00 a.m.–6:00 p.m.

Monday, 12 August ..... 8:00 a.m.–6:00 p.m.

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Items found during the conference should be turned in at Registration. If you lose an item, check with Registration. If your item has not been turned in, you may leave information on how to contact you should the item be found.

**Location:** Information Counter at Registration in Lobby F

## Luggage Check

A luggage check is available at a cost of \$2 per item checked.

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**Time:** 6:30 a.m.–5:30 p.m.

**Location:** Lobby F — across from Blue Bear Café

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Capturing or photographing contents of oral or ePaper presentations or exhibition booths via any electronic device or media is strictly prohibited at URTeC.

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Smoking is prohibited throughout the Convention Center.

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The Press room is a lounge/working area for editorial personnel covering the conference. Press releases and other announcements for the media are welcome to be left at the Press Room.

**Location:** Room 208

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Tuesday ..... 8:00 a.m.–5:00 p.m.

Wednesday ..... 8:00 a.m.–12:00 p.m.

## Proceedings

Pick up your purchased copy of the conference proceedings at Registration by redeeming the ticket included in your registration packet. The proceedings are also available for sale for US \$100 at Registration. Limited quantity available.

## Registration

Registration will be located in the Lobby F on Street Level just North of the Blue Bear.

Saturday, 10 August ..... 12:00 p.m.–5:00 p.m.

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Monday, 12 August ..... 7:00 a.m.–5:30 p.m.

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### Badges

Badges must be worn at all times while attending the conference. For your safety, remove our name badge when you leave the Colorado Convention Center.

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Please report security issues or emergencies to one of the following:

- Badge checkers/security guards: Located in lobby areas outside of technical session rooms and inside the exhibition hall.
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- URTeC Attendee Supervisor located at the Registration Desk.

### First Aid Station

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**Location:** Room 301

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Speakers should check in at the Speaker Service Center after picking up their badge at registration.

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Union Taxi: +1 303 922 2222  
Yellow Cab: +1 303 777 7777
- Town Car and Limousine Services are available, however must be arranged and paid for in advance. Average cost per trip is \$80-\$120. Some companies will have minimums and others may be all-inclusive. Visit [www.denver.org/travel-professionals/transportation/Town-Car-Limousine-Service](http://www.denver.org/travel-professionals/transportation/Town-Car-Limousine-Service) for additional information and a complete list.
- SkyRide Buses are available outside Level 5, Doors 507-511 in the East Terminal and Doors 506-510 in the West Terminal at Island 5. Route Information is available at the RTD counter on Level 5.
- Rental Car Counter information can be found on Level 5 with the shuttle pick up outside the East and West Terminals on Island 4.

*All rates and schedules are subject to change.*

### Public Transportation

Denver's Regional Transportation District (RTD) offers eco-friendly transportation by bus or light rail services within and around Denver.  
[www.rtd-denver.com](http://www.rtd-denver.com)  
**Telephone:** +1 303 299 6000

### URTeC Staff Office

**Telephone:** +1 303 228 8375

**Location:** Room 303

Saturday, 10 August ..... 8:00 a.m.–5:30 p.m.  
Sunday, 11 August ..... 8:00 a.m.–5:30 p.m.  
Monday, 12 August ..... 7:30 a.m.–5:30 p.m.  
Tuesday, 13 August ..... 7:30 a.m.–5:30 p.m.  
Wednesday, 14 August ..... 7:30 a.m.–5:30 p.m.

The URTeC website contains a Visit Denver microsite outlining all there is to see and do in Denver. Look for this logo on [www.urtec.org](http://www.urtec.org) and click through for more information.



# Calling Prospective Authors and Reviewers

Come and visit AAPG Publications at booth 909 and learn what it takes to be an AAPG author or reviewer.

AAPG staff and AAPG Publications Committee members will be available, and training sessions will be conducted at the booth. Don't miss this opportunity to learn what it takes to be involved with AAPG publications.



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### You will:

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- Maintain a positive work-life balance at a company that encourages working hard and playing hard
- Have opportunities for continuing education and professional development, supported by proactive mentorship
- Enjoy the best of both worlds in a career that combines the stability of a global company with the agility of an independent

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**Geosciences - [CPGeoJobs.com/URTeC](http://CPGeoJobs.com/URTeC)**



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