



ACCOMMODATIONS & TRAVEL

REGISTRATION

HOME

SCHEDULE »

EXHIBITORS

PRESS

ABOUT NEW ORLEANS

Register now for the first SPE conference
on carbon capture and storage.

Technical Program

ATCE 2009 features approximately 400 technical paper presentations, ePosters, and panel sessions covering all phases of the E&P industry. Meet the [ATCE 2009 program committee](#).

Browse the technical program by day

Monday, 5 October
[Morning](#) | [Afternoon](#)

Tuesday, 6 October
[Morning](#) | [Afternoon](#)

Wednesday, 7 October
[Morning](#) | [Afternoon](#)

Special Sessions

Opening General Session

Innovative Collaboration: What's next for IOCs, NOCs and SCs

This Monday morning session will outline the changes in relationships between national oil companies, international oil companies, and service companies and how they can work together to develop new opportunities. [Read more.](#)

New! Topical Breakfast

The Future of Unconventional Gas Resources

Join us Tuesday morning for a joint breakfast presentation on the future of unconventional gas—from Canadian and global market perspectives. [Read more.](#)

Young Professionals Workshop: Dieting After the \$147/Barrel Bonanza—The Return to Efficiency

This workshop on Tuesday will show young professionals how to navigate cost pressures that will drive our industry in the short- and mid-term future. Industry professionals will share their experiences and inspire young professionals to follow suit. [Read more.](#)

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEYP**

Distinguished Lecture Luncheon: Appropriate Hydraulic Fracturing Technologies for Mature Oil and Gas Formations

At a Tuesday luncheon, **Anthony (Tony) Martin** with BJ Services will discuss how hydraulic fracturing is not just for new wells in tight formations. [Read more.](#)

The Challenges in Reservoir Management

This special session on Tuesday afternoon will emphasize the current status and future trends in reservoir management and will cover the activities' operational components and their interface with drilling, completions, and production operations. [Read more.](#)

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERDD**

New! Topical Breakfast

Cantarell: A Supergiant with a Successful History and a Challenging Future

On Wednesday morning, Carlos Morales Gil, director general of Pemex E&P, will present a history of Cantarell since its discovery as well as the myths that surround it. [Read more.](#)

Managing Dual Career Couples: Balancing Family and Work

In this Wednesday morning session, hear about best practices from experienced professionals around the world who understand the work/life balance issues, and hear from young professionals who are just starting their juggling act. [Read more.](#)

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDCC**

General Information

CEUs

In addition to continuing education units (CEUs) for [short courses](#), ATCE attendees are also eligible to receive CEUs for attending the technical sessions. Earn a maximum of 1.7 CEUs by attending all 3 days of technical sessions and the Opening General Session.

Can't attend a particular session or want to review what you learned in a session?

ATCE 2009 technical session presentations (audio recordings) and slideshows will be available to all attendees. Visit the Content Management Corporation Information booth in Registration, Exhibit Hall B, and turn in the coupon found in your name badge holder for a free day of recordings. If one day isn't enough, you can purchase additional session recordings on-site or visit the [ATCE website](#) post-show for more information.

Please note: US attendees who have already received their attendee badge in the mail will receive an email from SPE with a link to the coupon.

Content Management Corporation

Photography Policy

All SPE sessions are protected by US copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.





ACCOMMODATIONS & TRAVEL

REGISTRATION

[Tech Program Home](#)[Monday Afternoon »](#)[HOME](#)[SCHEDULE](#) »[EXHIBITORS](#)[PRESS](#)[ABOUT NEW ORLEANS](#)

Monday, 5 October morning

0830-0950 | 217/218

PROJECTS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPFC**

Covers project work from early screening studies to successfully executed projects. Includes presentations on technical issues involved in complex deepwater projects, design optimizations, startup issues, and reports on production facility installations.

Session Chairpersons: **Wael ElLaithy**, IPR Energy Red Sea
Sunil Kokal, Saudi Aramco

0830 **124560** [A Simplified Subsea Separation and Pumping System](#)

S. Haheim, Shell; X. Gaillard, Sulzer Pumps

0850 **123790** [Planning and Procedures for the Initial Startup of Subsea Production Systems](#)

H.J. Duhon, J.L. Garduno, N. Robinson, Gibson Applied Technology and Engineering

0910 **121461** [Applying Well Remediation Techniques to Subsea Flow Lines in Deepwater Gulf of Mexico](#)

L. Hudson, G. Brown, Schlumberger; T. Breithaupt, Shell

0830-0950 | 206/207

DISTRIBUTED TEMPERATURE SENSING AND PRODUCTION PROFILING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPMC**

Describes the application of wellbore thermal models, distributed temperature measurements, and biochemical analysis of produced oilfield fluids; for the evaluation of inflow profiling on production wells and injection profiling in acid stimulation treatments.

Session Chairpersons: **Philippe Legrand**, Baker Hughes
Bobby Poe, Schlumberger

0830 **124806** [Development of a Coupled Compositional Wellbore/Reservoir Simulator for Modeling Pressure and Temperature Distribution in Horizontal Wells](#)

M. Shirdel, K. Sepehrnoori, University of Texas at Austin

0850 **124743** [Determining Acid Distribution Using Distributed Temperature Measurements](#)

X. Tan, D. Zhu, A.D. Hill, Texas A&M University

0910 **124873** [Predicting Flow Profile of Horizontal Wells by Downhole Pressure and DTS Data for Water-Drive Reservoir](#)

Z. Li, D. Zhu, Texas A&M University

0930 **124749** [Applying Biochemistry Concepts to the Analysis of Oilfield Produced Fluids](#)

A. Fuller, F. Mackay, C. Mackenzie, C. Rowley-Williams, V. Magdalenic, E. Perfect, LUX Innovate

ePoster **125050** [Comparing the Benefits: Use of Various Wellhead Gas Coning Control Strategies To Optimize Production of a Thin Oil Rim](#)

E. Nennie, S. Savanko, G. Alberts, M. Cargnelutti, TNO; E.V. Donkelaar, Shell

0830-0950 | 225/226/227

ARTIFICIAL LIFT METHODS AND HEAVY OIL

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWO**

The past five years have seen a dramatic increase in oil production from heavy oil. Papers will describe production techniques and technology developments to further enhance heavy oil production.

Session Chairpersons: **Albert Ollre**, Schlumberger
John Patterson, ConocoPhillips

- 0830 **123735** **The Quest To Understand ESP Performance and Reliability at 220C Ambient and Beyond**
S.G. Noonan, ConocoPhillips; M.A. Dowling, Schlumberger; W. Klaczek, K. Piers, C-FER
- 0850 **122596** **Producing Heavy Oil by Thermal Progressive Cavity Pumps in Steam Stimulation Process**
S. Zhang, China National Petroleum; Z. Liguu, Daqing Petroleum Institute; F. Song, B. Lang, F. Wu, E. Luo, China National Petroleum
- 0910 **122006** **Increased Rates, Reserves, and Revenues From Heavy-Oil Reservoir Using ESP Technology: A Suriname Case Study**
E.P. Anthony, G. Grauwde, State Oil; M.P. Domangue, Weatherford
- 0930 **124775** **Research of Gas Separator With Disperser Influence of ESP Work and Increase of Well Operation Efficiency by the Use of ESP**
M. Mochov, A. Tsunevskiy, Gubkin University
- ePoster **124646** **Application of Beam Pumping Wells' Energy-Saving Rebuilding Techniques in Daqing Oilfield**
W. Fengshan, L. He, Z. Wanfu, S. Guochen, C. Gang, C. Ruiqing, Z. Deshi, Daqing Oilfield Company; L. Dingming, Trans-Asia Gas Pipeline

0830-0950 | 228/229/230

CEMENTING TECHNOLOGY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Spans a full spectrum of cement-related issues, ranging from slurry design and best practices for certain harsh environments to bonding performance to techniques to better model the impact of cement on casing design.

Session Chairpersons: **Keith Lynch**, ConocoPhillips
Syed Waheed, Halliburton

- 0830 **124719** **How To Prevent Loss of Zonal Isolation Through a Comprehensive Analysis of Microannulus Formation**
A. Bois, A. Garnier, Total; CurisTec; F. Rodot, J. Saint-Marc, N. Aimard, Total
- 0850 **123738** **Saving Expensive Offshore Deepwater Rig Time by Modeling Accurate Subsea/Subsea Floor Temperature Modeling for Cementing Operations**
F. Tahmourpour, C.W. Quinton, Halliburton
- 0910 **122762** **The Application of High-Density Elastic Cements To Solve HP/HT Challenges in South Texas: The Success Story**
B.L. Wray, Cimarex Energy; D.R. Bedford, L. Leotaud, W.J. Hunter, Halliburton
- 0930 **124733** **Holistic Design of Cement Systems to Survive CO2 Environment**
N. Moroni, Eni; A.K. Santra, K. Ravi, W.J. Hunter, Halliburton

0830-0950 | R08/R09

DRILL BITS/HYDRAULICS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Provides insight in the fundamentals of rock failure, the optimized use of recent drilling innovations, and provides enhanced understanding of predicting and reacting to annular pressure changes.

Session Chairpersons: **Frederick Beck**, Gastar Exploration
Douglas Chester, BP

- 0830 **124631** **Advanced Automatic Control for Dual-Gradient Drilling**
O. Breyholtz, G.H. Nygaard, International Research Institute of Stavanger; M. Nikolaou, University of Houston
- 0850 **124190** **Effect of Eccentricity and Rotation on Annular Frictional Pressure Losses With Standoff Devices**
A. Singh, University of Houston; R. Samuel, Halliburton
- 0910 **124865** **Changing Selection Concepts: True Optimization of Drill Bits With Latest-Generation Rotary-Steerable Systems**
S.P. Barton, G. Pierce; National Oilwell Varco; D. Stroud, Weatherford
- 0930 **124116** **A Comprehensive Methodology To Avoid and Remediate Drilling Problems by Real-Time PWD Data Interpretation**
R. Gandelman, A.L. Martins, G.T. Teixeira, A. Waldmann, Petrobras; A. Mari, Engineering

0830-0950 | R04/R05
FIELD CASE STUDIES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Offers worldwide field case examples and technology-sharing.

Session Chairpersons: **Randal Brush**, William M. Cobb & Associates
Omar Varela, ExxonMobil

- 0830 **123875** **Distribution of Hydrogen Sulphide in the Buzzard Field**
P.S. Beilby, Nexen Petroleum; C. Clayton, CCGS; B.J. Moffatt, Petrophase
- 0850 **124332** **Hierarchical Long-Term and Short-Term Production Optimization**
G. Van Essen, P. Van den Hof, J. Jansen, Delft University of Technology
- 0910 **124857** **A Unified, Multidisciplinary Approach to the Planning and Design of Deepwater Waterflooding Projects**
F.R. Chaban, Gibson Applied Technology and Engineering; M.M. Sharma, A. Suri, University of Texas at Austin; , G.T. Gibson, Gibson Applied Technology and Engineering
- 0930 **124675** **Incremental Reserves and Production Potential From Horizontal Wells in Chuchupa Field, Colombia**
N. Rivera, N.S. Meza, J. Munoz, P. Joya, Chevron; C.A. Mora, Ecopetrol
- ePoster **124319** **MEOR Success in Southern Saskatchewan**
K. Town, Husky Energy; A.J. Sheehy, B.R. Govreau, Titan Oil Recovery
-

0830-0950 | 220/221
RESERVES: REGULATION CHANGES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEMGMT**

Learn from the experts on the most significant changes to regulations in more than 30 years.

Session Chairpersons: **Thomas Gardner**, Simmons
Delores Hinkle, Marathon Oil

- 0830 **123793** **Modernization of the SEC Oil and Gas Reserves Reporting Requirements**
W.J. Lee, Texas A&M University
- 0850 **124211** **A Risk-Adjusted Method for Determining OCS Lease Abandonment Liability In the Gulf of Mexico for MMS Supplemental Bonding**
M.J. Kaiser, Louisiana State University; B.J. Kruse, US Department of the Interior
- 0910 **124938** **Managing Your Business Using Integrated PRMS and SEC Standards**
J.R. Etherington, PRA International
- 0930 **124168** **Methodology for Integrated Reserves Management: Providing Regulatory Compliance and Improving Decision Making**
L. Virine, Project Decisions; R.D. MacDonald, Schlumberger
- ePoster **125178** **Improving Allocation and Hydrocarbon Accounting Accuracy and Automating Associated KPI's**
R. Cramer, D. Schotanus, Shell; N. Colbeck, SNEPCo
-

0830-0950 | R06/R07
SHALE EVALUATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEFE**

Provides an overview of the regional variations of the Barnett Shale before moving on to a strongly geomechanically-oriented session on kerogen-rich shales, the Haynesville Shale, the Caney and Woodford shales, injection testing in the Barnett, and core-based production simulation.

Session Chairpersons: **Paul Boonen**, PathFinder Energy
Jerome Truax, Halliburton

- 0830 **124147** **Application of Downhole Injection Stress Testing in the Barnett Shale Formation**
H. Ramakrishnan, G. Waters, E.C. Boratko, A.S. Latifzai, D. Bentley, Schlumberger; J. Kelley, Devon Energy
- 0850 **124227** **Evaluation of Haynesville Shale Vertical Well Completions With a Mineralogy-Based Approach to Reservoir Geomechanics**

- B. LeCompte, J.A. Franquet, D. Jacobi, Baker Hughes
- 0910 **124840** **Acoustic Signatures, Impedance Microstructure, Textural Scales, and Anisotropy of Kerogen-Rich Shales**
M. Prasad, Colorado School of Mines; T. Mukerji, Stanford University; M. Reinstaedler, Robert Bosch GmbH; W. Arnold, Universität Göttingen
- 0930 **124231** **Effective Geochemical and Geomechanical Characterization of Shale Gas Reservoirs From the Wellbore Environment: Caney and the Woodford Shale**
D.J. Jacobi, Baker Hughes; J.J. Breig, Newfield Exploration; B. LeCompte, M. Kopal, G. Hursan, F.E. Mendez, S. Bieven, J. Longo, Baker Hughes
- ePoster **124236** **Openhole Stability and Solids Production Simulation in Emerging Reservoir Shale Using Transversely Isotropic Thick-Wall Cylinders**
S. Hoang, Y. Abousleiman, University of Oklahoma; R.T. Ewy, Chevron

0830-0950 | 211/212/213

RESERVOIR MONITORING OF LOW-PERMEABILITY FORMATIONS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERM**

Focuses on the testing and modeling of tight gas formations and covers aspects of field development such as incremental vs. accelerated recovery, horizontal well performance, and a deconvolution approach to calculate connected pore volume.

Session Chairpersons: **Jeremy Griggs**, Devon Energy
Stephen Norris, J-W Operating

- 0830 **124441** **Interpretation of Well Test Data in Gas Condensate Deformable Formations**
A. Shandrygin, D. Rudenko, A. Begar, Schlumberger
- 0850 **124961** **A Numerical Study of Performance for Tight Gas and Shale Gas Reservoir Systems**
C.M. Freeman, Texas A&M University; G.J. Moridis, Lawrence Berkeley Laboratory; D. Ilk, T.A. Blasingame, Texas A&M University
- 0910 **124842** **Extending the Limit: Interval Pressure Transient Testing in Low-Permeability Reservoirs in the North Sea**
E.H. Samuelsen, Hess; A. Gisolf, V.V. Achourov, G. Seri, Schlumberger; K. Eriksen, StatoilHydro

0830-0950 | R02/R03

UPSCALING TECHNIQUES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Presents new developments and applications of scaling up and gridding techniques.

Session Chairpersons: **Eric Kreft**, EBN
Fernando Samaniego, UNAM

- 0830 **124648** **Development and Real Field Application of Two Novel Upscaling Methodologies for Simulating Flow in Heterogeneous Reservoirs**
H. Rai, M.M. Chaudhri, Chevron
- 0850 **124581** **Control-Relevant Selective Grid Coarsening**
S. Vakili, J. Jansen, Delft University of Technology
- 0910 **124955** **Development and Application of New Upscaling Techniques for Modeling Near-Well Flow in Heterogeneous Reservoirs**
Y. Chen, A. Bernath, H. Rai, P. Muron, Chevron
- 0930 **124477** **Intelligent Upscaling of Static and Dynamic Reservoir Properties**
V. Gholami, S.D. Mohaghegh, West Virginia University
- ePoster **124846** **Upscaling Local CO₂ Trapping During Buoyancy-Driven Flow**
E. Saadatpoor, S.L. Bryant, K. Sepehrnoori, University of Texas at Austin





ACCOMMODATIONS & TRAVEL

REGISTRATION

« Monday Morning

Tech Program Home

Tuesday morning »

HOME

SCHEDULE »

EXHIBITORS

PRESS

ABOUT NEW ORLEANS

Monday, 5 October afternoon

1400-1700 | 217/218

RESERVOIR CHARACTERIZATION AND MONITORING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERGG**

Focuses on the geological, petrophysical, and geophysical aspects of reservoir characterization, as well as the monitoring aspects for updating subsurface description.

Session Chairpersons: **Madhav M. Kulkarni**, Marathon Oil
Safian Atan, Marathon Oil

- 1400 124280 **Conditioning on Effective Permeabilities From Well Tests in Geostatistical Reservoir Characterization: Real Test Case Evaluation**
A. Skorstad, M.A. Islam, Norwegian University of Science and Technology; E. Borgrav, StatoilHydro
- 1425 124525 **A New Interpretation Method of 4D Seismic for Estimating Steam-Chamber Extent**
M. Tanaka, Waseda University; K. Endo, Japan Canada Oil Sands; T. Nakayama, Japan Petroleum Exploration; S. Onozuka, Japan Oil, Gas and Metals
- 1450 125102 **Effects of Fluid, Frequency, and Heterogeneity on Elastic Properties of Carbonate Rocks**
R. Sharma, Colorado School of Mines; L. Adam, Boise State University; M. Prasad, Colorado School of Mines
- 1545 121450 **Estimating the Reservoir Hydrocarbon Capacity Through Measurement of the Minimum Capillary Entry Pressure of Shale Caprocks**
T.M. Al-Bazali, Kuwait University; J. Zhang, BP; M.E. Chenevert, M.M. Sharma, University of Texas
- 1610 124971 **Accuracy of Fluid Property Estimates for Calculating Seismic Properties**
R.P. Sutton, J.G. Hamman, Marathon Oil
- 1635 124330 **Critical Poroviscoelastic Anisotropic Evaluation of Anelastic Strain Recovery Test**
S. Hoang, Y. Abousleiman, University of Oklahoma

1400-1700 | 206/207

INTELLIGENT FIELDS AND OPTIMIZATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPMC**

Offers novel techniques for field production optimization and illustrates the importance of intelligent field concepts in production optimization.

Session Chairpersons: **Thomas Bruni**, Eni
Marc Durkee, ConocoPhillips

- 1400 123504 **Production Optimization of Horizontal Wells in a Heavy-Oil Field**
Y. Qinghong, G. Lizhen, Z. Peng, China National Oil; T. Thomas, G. He, X. Li, Y. Tong, Schlumberger
- 1425 124999 **Proactive Optimization of Oil Recovery in Multilateral Wells Using Real-Time Production Data**
Z. Alghareeb, R.N. Horne, Stanford University; B. Yuen, S. Shenawi, Saudi Aramco
- 1450 124720 **Model-Based Optimisation of a Gas Production System: The Trinidad Field Optimiser**
A.M. Ramdial, N.H. Hudson, R.G. Pike, BP; J.C. Rodriguez, M.S. Strathman, S. Sama, Aspen Technology
- 1545 124949 **Methodology to Compare Smart and Conventional Wells**
D.J. Schiozer, J.Q. Silva, University Estadual de Campinas

- 1610 **123540** **Revamping Old Fields Using I-Field Technologies**
M.N. Al-Khamis, H. Al-Hamzani, M. Al-Adel Saudi Aramco
- 1635 **124926** **Real-Time Diagnostics of Gas Lift Systems Using Intelligent Agents: A Case Study**
G.B. Stephenson, Occidental Petroleum; R.V. Molotkov, Weatherford; N. De Guzman, L.G. Lafferty, Intelligent Agent

1400-1700 | 225/226/227

ADDRESSING WELL OPERATION PROBLEMS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWO**

Offers approaches to prevent and/or try to mitigate well operation problems. Covers topics such as improving the quality of cement, determining limitations of certain well integrity restoration operations, planning wellbore clean-out operations, and avoiding erosion, corrosion, and organic deposition.

Session Chairpersons: **Francisco Alhanati**, C-FER
Jack English, PDVSA

- 1400 **124506** **A Study of a Low-Frequency Downhole Hydraulic Pulsing Cementing Device and Its Field Application**
C. Nie, Xi'an ShiYou University; B.F. Towler, University of Wyoming; D. Ye, Sichuan-Changqing Drilling
- 1425 **124799** **Using Cross-Polarized Microscopy To Optimize Wax-Treatment Methods**
M.M. Bacon L.B. Romero-Zeron, University of New Brunswick; K.K. Chong, Core Laboratories
- 1450 **124381** **Wellbore Re-entries and Repairs: Practical Limits of Cementing New Casing Inside Existing Casing**
A.S. Metcalf, D.L. Purvis, BJ Services; S. Stillwell, Walsh Petroleum
- 1545 **124653** **Dynamic Flow Simulation of a Well Cleanup Operation at the Asgard Field**
E. Krogh, SINTEF; S. Mjaaland, E. Sletfjerding, StatoilHydro
- 1610 **124108** **Laboratory Modelling of Equipment Erosion by Sand Particles**
L. Graham, C.Y. Wong, D. Lester, J. Wu, CSIRO
- 1635 **123660** **Development and Field Application of a Novel Non-Acid Calcium Naphthenate Inhibitor**
J. Debord, P. Srivastava, Baker Hughes
- ePoster **124638** **Acoustic Logging Techniques for Guiding Casing Recovery Operations in Deepwater Gulf of Mexico**
G. Donovan, P. Fadesere, Shell

1400-1700 | 228/229/230

ADVANCES IN SAND-CONTROL TECHNOLOGY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWC**

Covers advances in open-hole gravel packing, friction reduction during gravel packing, prevention of sand screen failures, sanding prediction, and mitigation.

Session Chairpersons: **Syed Ali**, Schlumberger
Michael Barry, ExxonMobil

- 1400 **122765** **World's First Reverse-Port Uphill Openhole Gravel-Pack With Swellable Packers**
R.A. Jansen, B. Koksaloglu, P. Holweg, R. Hamed, Shell; M.E. Dawson, B. Chay, D.T. Mok, R. Ali, Halliburton
- 1425 **124388** **Modeling Analysis of Sand-Screen Collapse Resistance Under Geotectonic Load**
G. Fuh, ConocoPhillips; N. Morita, Waseda University; K. Furui, ConocoPhillips
- 1450 **123155** **An Alternative Method of Dealing With Pressure: Friction Reducer For Water-Packing of Long Horizontal Open Holes in Low-Fracturing-Gradient Environments**
B. Basar, S.S. Shenoy, B.R. Gadiyar, S. Jain, M. Parlar, Schlumberger
- 1545 **123478** **A Comprehensive Study of Sanding Rate From a Gas Field: From Reservoir, Completion, Production, to Surface Facilities**
G. Han, K.S. Shepstone, I.S. Harmawan, U. Er, H. Jusoh, L.S. Lin, D. Pringle R. Koya, S. Carney, L.D. Barker, Hess; N. Morita, Waseda University; E. Papamichos, Aristotle University of Thessaloniki; P. Cerasi, SINTEF; C.M. Sayers, J.C. Heiland, Schlumberger; M.S. Bruno, J. Diessl, Terralog Technologies
- 1610 **125170** **Can Sand-Screen Failures Be Prevented in Gravel-Packed Cased-Hole Completions?**
G. Gillespie, C. Jones, Weatherford

- 1635 **124350** **Modeling Horizontal Completion Deformations in a Deepwater Unconsolidated Sand Reservoir**
L.B. Hilbert, V. Saraf, Exponent; D.K. Birbiglia, E.E. Shumilak, P. Schutjens, C. Hindrike, F.J. Klever, Shell
- ePoster **124868** **Solid Paraffin Inhibitor Pumped in a Hydraulic Fracture Provides Long-Term Paraffin Inhibition in Permian Basin Wells**
T.W. Smith, S. Szymczak, D. Gupta, J.M. Brown, BJ Services

1400-1700 | R08/R09

DIRECTIONAL DRILLING/ERD

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Summarizes field experiences with drilling ERD wells in challenging environments using evolving and advanced technologies to achieve record performance. Also highlights new approaches to achieve wellbore stabilization.

Session Chairpersons: **Rustom Mody**, Baker Hughes
Dennis Moore, Signa Engineering

- 1400 **124313** **Catenary Well Profiles for Extended and Ultra-Extended-Reach Wells**
X. Liu, Sinopec, R. Samuel, Halliburton
- 1425 **124246** **Optimizing Directional Drilling While Minimizing the Risk of Well Collision in Offshore Drilling**
N. Sharma, M.B. McDonald, J. Mohammed, Baker Hughes; B. Daire, T. Eicks, L. Jew, BP
- 1450 **123577** **Whipstock and Inflatable Packer Combination Decreases Openhole Sidetracking Costs in Central Arkansas**
A.N. Broussard, G.W. Templeton, Weatherford; D. Travis, Southwestern Energy
- 1545 **123161** **Case History Summary: Horizontal Drilling Performance Improvement Due to Torque Rocking on 800 Horizontal Land Wells Drilled for Unconventional Gas Resources**
E.E. Maidla, M. Haci, D. Wright, Slider
- 1610 **124119** **Preventing Hole Enlargement While Drilling Heavy Offshore Oil Reservoirs**
M.V. Ferreira, F.G. Costa, E. Campos, F. Macedo, A.F. Aragao, A.L. Martins, Petrobras
- 1635 **125246** **Practices Implemented To Achieve Record Performance in Narrow-Margin Drilling in Bass Strait Extended Reach**
D.D. Kilroy, F. Dupriest, ExxonMobil
- ePoster **124352** **Unique String Tools Combine To Save Over USD 11 Million in Challenging Hole-Opening Rotary-Steerable Applications**
S.P. Barton, A. Garcia, C. Luther, I. Noriega, National Oilwell Varco; A. Cordova, Weatherford; R. Aguilar, Pemex
- ePoster **124498** **High-Dogleg Rotary-Steerable Systems: A Step Change in Drilling Process**
S. Bryan, J. Cox, D. Blackwell, SEECO; F. Slayden, S. Naganathan, Schlumberger

1400-1700 | R04/R05

STIMULATION FIELD CASE STUDIES AND NEW TECHNOLOGIES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWS**

Showcases several new technologies and case histories developed from around the world.

Session Chairpersons: **Barry Lloyd**, El Paso Production
Terrence Palisch, Carbo Ceramics

- 1400 **124905** **Evaluating Horizontal Well Placement and Hydraulic Fracture Spacing/Conductivity in the Bakken Formation, North Dakota**
E. Lolon, C.L. Cipolla, StrataGen; L. Weijers, Pinnacle Technologies; R.E. Hesketh, Oasis Petroleum; M.W. Grigg, Kerogen Resources
- 1425 **124067** **The Chiswick Field: Long Horizontal Wells and Innovative Fracturing Solutions in a Low-Permeability, Sandstone Gas Reservoir in the North Sea**
G.P. Coghlan, B. Holland, Venture Production
- 1450 **124144** **Quantum Effects Imparted By Radio Frequencies as a Stimulation Method of Oil Production**
H.L. Becker, J.M. Brown, BJ Services
- 1545 **124480** **Case Study of a Novel Hydraulic Fracturing Method That Maximizes Effective Hydraulic Fracture Length**
E. Tudor, G.W. Nevison, S. Allen, Gasfrac Energy; B. Pike, Paramount Resources

- 1610 **124215** **Improved Oil Recovery From Combining Well Stimulation With Novel Surfactant Technologies**
S.L. Berry, K.L. Smith, J.L. Cutler, BJ Services; L.J. Kalfayan, Hess
- 1635 **125077** **A Field Demonstration of a New Chemical Stimulation Treatment for Fluid-Blocked Gas Wells**
M. Butler, J. Trueblood, Trueblood Resources; G.A. Pope, M.M. Sharma, University of Texas at Austin; D. Johnson, 3M
- ePoster **125077** **A Field Demonstration of a New Chemical Stimulation Treatment for Fluid-Blocked Gas Wells**
M. Butler, J. Trueblood, Trueblood Resources; G.A. Pope, M.M. Sharma, University of Texas at Austin; D. Johnson, 3M
- ePoster **124483** **Oriented Fracturing: A New Technique To Hydraulically Fracture an Openhole Horizontal Well**
H.H. Abass, Saudi Aramco; M.Y. Soliman, Halliburton; A.M. Al-Tahini, Saudi Aramco; J. Surjaatmadja, D.L. Meadows, L. Sierra, Halliburton

1400–1700 | 220/221

WORKPLACE: NEW TOOLS FOR THE NEW WORLD

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEMGMT**

Presents new methods and applications of successful ideas to sharpen your tools to be more effective in the workplace.

Session Chairpersons: **Reidar Bratvold**, University of Stavanger
Bradford Larson, Societe Generale

- 1400 **124723** **Corporate Venture Capital as a Conduit for Early Adoption of Emerging Technology: A Decade of Experience**
T. Unneland, J. Hanten, Chevron
- 1425 **125252** **Application of Continuous Improvement Methods to the Petroleum Upstream Business**
J. McCall, P. Smart, D. McNeil, Imperial Oil
- 1450 **125124** **Repeated Judgment Elicitation: Tapping the Wisdom of Crowds in Individuals**
M.B. Welsh, S.H. Begg, University of Adelaide
- 1545 **124180** **Practical Portfolio Simulation: Determining the Precision of a Probability Distribution of a Large Asset Portfolio When The Underlying Project Economics Are Captured by a Small Number of Discrete Scenarios?**
B.J. Willigers, Palantir Economic Solutions
- 1610 **124230** **Asset Life-Cycle OPEX Modelling With Montecarlo Simulation To Reduce Uncertainties and To Improve Field Exploitation**
F. Verre, A. Giubileo, C. Cadegiani, Eni
- 1635 **124488** **Taking Real Options Into the Real World: Asset Valuation Through Option Simulation**
B. Jafarizadeh, R.B. Bratvold, University of Stavanger
- ePoster **124178** **A Game Theoretic Approach To Conflicting and Evolving Stakeholder Preferences in the E&P Industry**
B.J. Willigers, Palantir Economic Solutions; R.B. Bratvold, K. Hausken, University of Stavanger

1400–1700 | R06/R07

FORMATION TESTING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEFE**

Covers a range of formation testing issues, including field cases, best practices, and challenges in testing and field data analyses of unconventional and tight gas reservoirs.

Session Chairpersons: **Riley Bates**, Plains Exploration and Production
Dawari David Charles, Chevron

- 1400 **124220** **Deconvolution of Wireline Formation Test Data**
J. Wu, D. Georgi, Baker Hughes; E. Ozkan, Colorado School of Mines
- 1425 **124264** **Investigation of Formation Connectivity Using Asphaltene Gradient Log Predictions Coupled With Downhole Fluid Analysis**
J.Y. Zuo, O.C. Mullins, C. Dong, S.S. Betancourt, F.X. Dubost, M. O'Keefe, D. Zhang, Schlumberger
- 1450 **124371** **Numerical Investigation of Oil-Base-Mud Contamination in Condensates: From**

Cleanup to Sample Quality

M. Malik, Chevron; B. Dindoruk, H. Elshahawi, Shell; C. Torres-Verdin, University of Texas at Austin

- 1545 **124048** **Hostile Formation Testing Advances and Lessons Learned**
A.H. Van Zuilekom, M.P. Rourke, Halliburton
- 1610 **124032** **Improved Accuracy in the Measurement of Downhole In-Situ Fluid Density**
L. Gao, A.H. Van Zuilekom, M.T. Pelletier, M. Proett, M. Rourke, Halliburton; R.G. Palmer, A. Santos da Silva, A.A. Hajari, Saudi Aramco
- 1635 **125043** **Practical Solutions for Pressure-Transient Responses of Fractured Horizontal Wells in Unconventional Reservoirs**
M. Brown, E. Ozkan, Colorado School of Mines; R.S. Raghavan, ConocoPhillips; H. Kazemi, Colorado School of Mines

1400–1700 | 211/212/213

CHEMICAL EOR

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERMFPM**

Highlights recent advances in a variety of types of chemical enhanced oil recovery: a review of new developments in chemical EOR, modeling effects of pressure and solution gas on oil recovery from surfactant-polymer floods, mechanisms of improved recovery from fractured reservoirs using surfactants, mechanisms of oil recovery by low-salinity brine injection, and an evaluation of combining alkaline-surfactant-polymer with miscible CO₂ flooding.

Session Chairpersons: **I. Akkutlu**, University of Oklahoma
Gary Teletzke, ExxonMobil

- 1400 **124752** **A Systematic Study of Alkali-Surfactant-Gas Injection as an EOR Technique**
M. Srivastava, J. Zhang, Q.P. Nguyen, G. Pope, University of Texas at Austin
- 1425 **125095** **Effect of Pressure Temperature, and Solution Gas on Oil Recovery From Surfactant Polymer Floods**
M. Roshanfekr, R.T. Johns, G. Pople, L. Britton, H. Linnemeyer, C. Britton, A. Vyssotski, University of Texas at Austin
- 1450 **124822** **Surfactant Screening for Wettability Alteration in Oil-Wet Fractured Carbonates**
R. Gupta, K. Mohan, University of Houston; K.K. Mohanty, University of Texas at Austin
- 1545 **124277** **Oil Recovery by Low-Salinity Brine Injection: Laboratory Results Outcrop and Reservoir Cores**
S. Boussour, Total; M. Cissokho, University of Bordeaux; P. Cordier, Total; H. Bertin, University of Bordeaux; G. Hamon, Total
- 1610 **123866** **A New EOR Method**
S. Behzadi, B.F. Towler, University of Wyoming
- 1635 **124946** **Pore-Level Mechanics of Forced and Spontaneous Imbibition of Aqueous Surfactant Solutions in Fractured Porous Media**
A. Alshehri, E. Sagatov, A.R. Kovscek, Stanford University
- ePoster **124773** **Application of pH-Triggered Polymers for Deep Conformance Control in Fractured Reservoirs**
F. Lalehrokn, S.L. Bryant, University of Texas at Austin

1400–1700 | R02/R03

FLUID CHARACTERIZATION AND MODELING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Focuses on fluid characterization and modeling studies in support of fluid phase behavior related EOR processes. Laboratory, modeling, and field examples are shared.

Session Chairpersons: **Abhijit Dandekar**, University of Alaska
Omar Varela, ExxonMobil

- 1400 **124906** **A Practical Method for Minimum Miscibility Pressure Estimation of Contaminated Gas Mixtures**
R.T. Johns, A. Kaveh, University of Texas at Austin; Z. Dengen, Y. Meisong, Chevron
- 1425 **124109** **Minimum Miscibility Pressure Investigations for a Gas-Injection EOR Project in Al Shaheen Field, Offshore Qatar**
K. Mogensen, P. Hood, N. Lindeloff, S. Frank, Maersk; R. Noman, Qatar Petroleum
- 1450 **124968** **An Improved Model for Water-Hydrocarbon Surface Tension at Reservoir Conditions**

R.P. Sutton, Marathon

1545 **124609** [Modeling of Complex Fluid Systems in Gimboa Field Block 4: An Offshore Field in Angola With Biodegraded Heavy Oils](#)

T. Yang, F. Mengel, A. Iannotta, StatoilHydro; J. Lazary, E. Mouzinho, Sonangol P&P

1610 **124734** [More Accurate Gas Viscosity Correlation for Use at HP/HT Conditions Ensures Better Reserves Estimation](#)

E. Davani, K. Ling, C. Teodoriu, W.D. McCain, G. Falcone, Texas A&M University

1635 **125017** [Lumping and Delumping for Integrated Compositional Modeling](#)

R. Rastegar, K. Jessen, University of Southern California





ACCOMMODATIONS & TRAVEL

REGISTRATION

« Monday Afternoon

Tech Program Home

Tuesday afternoon »

HOME

SCHEDULE »

EXHIBITORS

PRESS

ABOUT NEW ORLEANS

Tuesday, 6 October morning

0830-1155 | 217/218

INNOVATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPFC**

Offers presentations on the application of novel equipment including the qualification process and assessment of project risk in using new technology, the application of novel approaches to asset integrity management, and the selection of facilities concepts.

Session Chairpersons: **Jeff Sawchuk**, BP
John Walsh, Shell

- 0830 **124823** [New Mixer Optimizes Crude Desalting Plant](#)
H. Linga, Propure; F.A. Al-Qahtani, S.D. Al-Qahtani, Saudi Aramco
- 0855 **124869** [Low-Pressure System for Gas Wells: Do We Need It? How Low Should We Go? A Compression Strategy for Tight Gas Wells in South Texas](#)
Q. Bui, L.K. Harms, E.A. Munoz, J.L. Becnel, ConocoPhillips
- 0920 **124539** [Application of Risk-Based Inspection to Offshore Facilities](#)
T. Poulassichidis, Hess
- 0945 **125048** [Deepwater Developments: Successful Application of New Technology](#)
H. Brandt, S.L. Isaksen, Det Norske Veritas; S.H. Friedemann, Research Council of Norway
- 1040 **122726** [Vibration Monitoring System Using Wireless Technology: A Feasible Alternative Solution for Noncritical Machines](#)
M.A. Alhetairshi, Saudi Aramco
- 1105 **124083** [Produced-Water Separation at Unmanned Offshore Wellhead Platform: A Concept Report](#)
A.K. Gupta, R. Rai, A. Kumar, N. Asija, D. Soni, Oil & Natural Gas
- 1130 **123987** [Gas Storage Facility Design Under Uncertainty](#)
A. Ettehadtavakkol, C.J. Jablonowski, L.W. Lake, University of Texas at Austin

0830-1155 | 206/207

DIGITAL ENERGY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDE**

Presents new developments in the area of collecting, processing, and analyzing data. Features platforms and standards to collect and use data to support decisions and knowledge management issues, where information technology is an enabler to facilitate corporate learning's such as the required change management to adopt such systems and consequent new work processes in the organization.

Session Chairpersons: **Surya Rajan**, Marathon Oil
Gerhard Thonhauser, TDE Thonhauser Data Engineering

- 0830 **124203** [Simulations of Field Development Planning Help Improve Economics of Heavy-Oil Project](#)
D.D. Teotico, L. Schauerte, J.E. Griffith, Shell; G.D. Schottle, R.E. Mehl, Halliburton
- 0855 **124247** [Real-Time Decision Support in Drilling Operations Using Bayesian Decision Networks](#)
M. Rajaieyamchee, R.B. Bratvold, University of Stavanger
- 0920 **124306** [Established Knowledge Management \(KM\) Communities of Practice: Moving Across the KM Product Life Cycle](#)
C. Burress, K. Paylow, Halliburton
- 0945 **124347** [WITSML "Comes of Age" for the Global Drilling and Completions Industry](#)
J.G. Pickering, BP; J. Kreijger, Shell; L. Grovik, StatoilHydro; D. Franssens, Halliburton;

- N. Deeks, Schlumberger; A. Doniger, J. Schey, Energistics
- 1040 **124404** **Digital Oilfield Projects: A Perspective Using Examples From Reservoir and Reserves Management**
V. Lasrado, Infosys Technologies
- 1105 **124514** **An Intelligent Platform To Manage Offshore Assets**
C.M. Piovesan, APO Offshore; J.B. Kozman, Carbon Lifecycle Technology Consulting
- 1130 **125166** **A Systems Engineering Approach to Change Management That Overcomes the Barriers to User Acceptance**
M.G. Campbell, Managing Change and Acceptance International
- ePoster **124856** **Data, Information, Knowledge, Wisdom: Shaping E&P World**
E. Lyadina-Saville, Saville Solver

0830–1155 | 225/226/227

ENHANCEMENTS IN MODEL-BASED TECHNIQUES TO MONITOR RESERVOIR PERFORMANCE

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERM**

Features the latest in model-based techniques used to monitor and assess reservoir performance. Topics include HP/HT geomechanical modeling, Joule-Thomson effects in high-rate wells, improvements in PTA, advances in real-time reservoir modeling using the ensemble Kalman filter, and benefit of a standardized reservoir monitoring approach with an illustration about a North Sea field.

Session Chairpersons: **James Clark**, Mariner Energy
Marise Mikulis, Baker Hughes

- 0830 **124713** **Depletion-Induced Stress Changes in an HP/HT Reservoir: Calibration and Verification of a Full Field Geomechanical Model**
M.H. Hettema, B. Bostrom, E.S. Pedersen, StatoilHydro
- 0855 **124338** **Field Cases: Nonisothermal Behavior Due to Joule-Thomson and Transient Fluid Expansion/Compression Effects**
J.F. App, Chevron
- 0920 **125099** **Significant Improvement in the Accuracy of Pressure Transient Analysis Using Total Least Squares**
A. Dastan, R.N. Horne, Stanford University
- 0945 **124788** **Production Optimization Benefits Through Applications of Standardized Operating Procedures for Reservoir Monitoring**
V. Bhushan, R. Lee, Shell; P. Mukerji, Schlumberger
- 1040 **124690** **Numerical Simulation of Seismicity Induced by Hydraulic Fracturing in Naturally Fractured Reservoirs**
X. Zhao, R. Young, University of Toronto
- 1105 **124826** **A Hybrid Ensemble Kalman Filter With Coarse Scale Constraint for Nonlinear Dynamics**
S. Watanabe, A. Datta-Gupta, Y. Efendiev, Texas A&M University; D. Devegowda, University of Oklahoma
- 1130 **124055** **Integration of Well Test Pressure Data Into Heterogeneous Geological Reservoir Models**
G. Li, M. Han, University of Tulsa; R. Banerjee, Schlumberger; A.C. Reynolds, University of Tulsa
- ePoster **125042** **Localization of Ensemble-Based Control Setting Updates for Production Optimization**
Y. Chen, Chevron; D.S. Oliver, University of Oklahoma

0830–1155 | 228/229/230

DEEPWATER COMPLETIONS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWC**

Includes case histories from several deepwater operators on their frac pack and intelligent wells completions and a root cause analysis of intelligent well performance. Includes an overview of a deepwater scale squeeze operation, the advent of 15 Cr materials, and expandables for frac pack installation.

Session Chairpersons: **Paul Butler**, Halliburton
Karen Olson, BP

- 0830 **124937** [Expandable Tubulars Enable Multizone Frac-Packing in Open Hole](#)
P.L. York, R.V. Gandikota, Weatherford
- 0855 **124155** [Scale Prevention Application of a Chemical Technology That Has Been Effectively and Economically Applied to a 420oF, 13,500-Ft-Deep, Gulf of Mexico \(GOM\) Well To Prevent Lead and Zinc Sulfide Deposition](#)
G. Darby, D. Uhlig, J. Steckler, BJ Services; J. Martin, Apache
- 0920 **123943** [New Family of Setting Tools for Ultradeep and High-Temperature Well Condition](#)
C.W. Kessler, J. Hill, E. Shook, R. Housden, Halliburton; E. Collum, Water Oil and Gas
- 0945 **124705** [Hydraulic Intelligent Well Systems in Subsea Applications: Options for Dealing With Limited Control-Line Penetrations](#)
R.A. Tirado, Baker Hughes
- 1040 **124336** [The Systematic Application of Root-Cause Analysis to Failures of Intelligent-Well Completions](#)
E.K. Beyer, M.F. Barrilleaux, BP; J.A. Hother, T.F. Keates, Proneta
- 1105 **124887** [Corrosion Inhibition of New 15-Chromium Tubulars in Acid Stimulation Fluids at High Temperatures](#)
J.L. Boles, BJ Services; M. Ke, Consultant; C. Parker, BJ Services

0830-1155 | R08/R09

DRILLING FLUIDS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Focuses on curing, mitigating, or preventing costly problems associated with drilling or completion fluids. Wellbore stabilization, internal phase salinity of oil-based fluids, low-rheology reservoir drilling fluids for ERD wells, and fluids-related problems with underbalanced drilling are addressed.

Session Chairpersons: **James E. Friedheim**, M-I Swaco
Catalin Ivan, Chevron

- 0830 **124137** [Predicting Dynamic Barite Sag in Newtonian Oil-Based Drilling Fluids](#)
T. Nguyen, S.Z. Miska, M. Yu, N.E. Takach, University of Tulsa
- 0855 **124409** [Formation and Removal of Hydrates Inside Wellhead Connectors](#)
T.J. Akers, ExxonMobil
- 0920 **124238** [Low-Rheology RDF Successfully Drills Troublesome Qannik ERD Wells in the Alpine Field, North Slope Alaska](#)
G.L. Alvord, B.D. Noel, E. Galiunas, ConocoPhillips; J.W. Murphy, J.A. Cucullu, C. Ornt, M-I SWACO
- 0945 **124429** [Minimizing Water Invasion in Shales Using Nanoparticles](#)
T. Sensoy, M.E. Chenevert, M.M. Sharma, University of Texas at Austin
- 1040 **124044** [Corrosion Inhibition of Low-Alloy Steels in Brine with Highly Oxygenated Nitrogen Membrane Gas for Underbalanced Drilling Applications](#)
B. McNealy, Blade Energy; R. Hausler, Corro Consultants; M. Tabinor, BP
- 1105 **124333** [Causes of Severe Magnetite Formation on Drillstring During Underbalanced Drilling and Practical Mitigation Strategies](#)
A.M. Ezzat, R.G. Ezell, Halliburton; J.K. Turner, R. Mcnealy, L. Mason, Blade Energy

0830-1155 | R04/R05

DESIGN AND MICROSEISMIC MONITORING OF HYDRAULIC FRACTURE TREATMENTS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWS**

The advent of sophisticated fracture treatment diagnostics has led to more effective improvement of stimulation designs resulting in improved reservoir recovery. Focuses on refinement of microseismic mapping events, integration of various diagnostic tools, and field case studies to improve stimulation performance.

Session Chairpersons: **James Heinze**, Devon Energy
Mauro Tambini, Eni

- 0830 **124361** [Fluid Selection for Energized Hydraulic Fractures](#)
K.E. Frieauf, M.M. Sharma, University of Texas at Austin
- 0855 **125121** [Assessing the Impact of Microseismic Location Uncertainties on Interpreted Hydraulic Fracture Geometries](#)
S.C. Maxwell, Schlumberger
- 0920 **124208** [Anisotropy Effects in Microseismic Monitoring](#)

- N.R. Warpinski, C.K. Waltman, J. Du, Q. Ma, Pinnacle Technologies
- 0945 **124673** **Fracture Mapping in the San Juan Basin, New Mexico**
E. Estrada, N.R. Roberts, ConocoPhillips; L. Weijers, T.G. Riebel, S.D. Logan, Pinnacle Technologies
- 1040 **124877** **Increased Production Through Microseismic Monitoring of Hydraulic Fracturing Over a Multiwell Program**
W. Barker, Microseismic
- 1105 **124327** **Coupled 3D Numerical Investigation of Hydraulic Fracture Cleanup for Both Slickwater and Gelled Fluids**
H.A. Wills, J.L. Miskimins, H. Kazemi, Colorado School of Mines

0830–1155 | 220/221

INTEGRATED GEOLOGICAL MODELING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERGG**

Focuses on integrated approaches to geophysical and geological modeling.

Session Chairpersons: Calvin Kessler, Halliburton
Madhav M. Kulkarni, Marathon Oil

- 0830 **KEYNOTE** **The Importance of Integration: Then and Now**
SPEAKER James Gilman, iReservoir.com
- 0855 **124426** **Close-Loop Modeling of a Gulf of Mexico Reservoir Using Petrophysical Seismic Inversion**
Y. Liu, M. Pelissier, M. Barnes, J.R. Tribe, R. Uden, Marathon Oil; J.J. Teer, University of Oklahoma
- 0920 **123988** **Successful Carbonate Well Log Facies Prediction Using an Artificial Neural Network Method: Wafra Maastrichtian Reservoir, Partitioned Neutral Zone (PNZ), Saudi Arabia and Kuwait**
H. Tang, N. Tooney, W. Meddaugh, Chevron
- 0945 **120942** **Continuous Improvement Initiative To Optimize Reservoir Management in Carbonate Fractured Reservoir: Integrated GGRP in East Java Throughout Bali Area**
G. Agusetiawan, G. Sutadiwiria, D. Rukmana, BP
- 1040 **125229** **Evaluating the Movement of Injected Gas and Identifying Bypassed Condensate in the OSO Field, Offshore Nigeria**
L. Sumpster, M. Gunther, I. Kerscher, S. Leininger, B. Wudlri, ExxonMobil
- 1105 **124296** **Stochastic Modeling of Objects Extracted From High-Quality Seismic Data**
A. Syversveen, R. Hauge, Norwegian Computing Center; J. Tollefsrud, University Laegreid; A. MacDonald, Roxar

0830–1155 | R06/R07

PETROPHYSICS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEFE**

Focuses on cost-effective workflows, strategies, and methods to determine static and dynamic reservoir properties that can add significant value to the industry. Presentations will be of interest to geophysicists, reservoir engineers, and geologists.

Session Chairpersons: Jeffry Hamman, Marathon Oil
Badarinadh Vissapragada, Schlumberger

- 0830 **123913** **The Equations Archie Forgot: Anisotropy of the Rocks**
C.F. Haro, Occidental Oil and Gas
- 0855 **124049** **Determination of Petrophysical Parameters and Mud-Filtrate Invasion Profile Using Joint Inversion of Induction Logging and Pressure Transient Measurements**
L. Liang, A. Abubakar, T. Habashy, Schlumberger
- 0920 **124206** **Cost-Effective Reservoir Characterization Utilizing Dielectric Logging Measurements, San Joaquin Basin, California**
D. Pilman, Plains Exploration and Production; T. Skinner, Crimson Resource Management; R. Denton, M. Hansen, D.O. Torres, Halliburton
- 0945 **124625** **A Robust Measure of Heterogeneity for Ranking Earth Models: The F-PHI Curve and Dynamic Lorenz Coefficient**
G.M. Shook, K. Mitchell, Chevron
- 1040 **124624** **Joint Radial Inversion of Resistivity and Sonic Logs To Estimate In-Situ**

Petrophysical and Elastic Properties of Formations

R. Mallan, J. Ma, C. Torres-Verdin, G. Wang, University of Texas at Austin

- 1105 **124969** **Balancing Lithology and Low-Pressure Hydrocarbon Effects: Evaluation of Low-Pressure Reservoirs Utilizing Magnetic Resonance in the Alaska Cook Inlet**
E. Toumelin, B. Voorhees, D. Shafer, S. Jebuta, Chevron; M. Manning, D. Coope, Baker Hughes
- 1130 **125169** **Strategies for Acquiring and Integrating Petrophysical Data for Reservoir Evaluation**
M.O. Amabeoku, D.G. Kersey, R.H. BinNasser, H.H. Mohammadi, Saudi Aramco
- ePoster **124762** **The Variability of Gamma Ray Tool Response and Calibration as a Function of Tool Design**
R. Pederson, B. Haecker, Crescent Directional Drilling; D.C. Minette, Minette Consulting

0830–1155 | 211/212/213

FLOW IN POROUS MEDIA

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERMFPM**

Offers exciting new fundamental research on two-phase flow in porous media; a unified theory for the imbibitions and drainage processes; new measurement techniques of relative permeability using imaging and permeation experiments; effects of external magnetic field on multiphase flow dynamics and on flow of surface-coated nanoparticles in rock; and simulation of flow in porous media using pore-network and Lattice-Boltzmann approaches.

Session Chairpersons: **I. Akkutlu**, University of Oklahoma
Cengiz Satik, Chevron

- 0830 **124418** **Enhanced Migration of Surface-Treated Nanoparticles in Sedimentary Rocks**
E. Rodriguez, M. Roberts, H. Yu, C. Huh, S.L. Bryant, University of Texas at Austin
- 0855 **124805** **A Macroscopic Method of Measuring Microscopic Scale Phenomena in Porous Media: The Transition Between a Sharp and Diffuse Imbibition Front**
B. Aminzadeh, D.A. DiCarlo, University of Texas at Austin
- 0920 **123676** **Analysis of Transient Data During Relative Permeability Measurements Using Steady-State Technique**
M.R. Fassih, BP; G. Potter, Core Laboratories
- 0945 **124974** **Predicting Relative-Permeability Curves Directly From Rock Images**
D.B. Silin, Lawrence Berkeley National Laboratory; T.W. Patzek, University of Texas at Austin
- 1040 **124771** **Unified Model of Drainage and Imbibition in 3D Fractionally Wet Porous Media**
S. Motealleh, M. Ashouripashaki, D.A. DiCarlo, S.L. Bryant, University of Texas at Austin
- 1105 **124440** **Improving Fidelity of Network Models for Drainage and Imbibition**
Y. Peng, M. Prodanovic, S.L. Bryant, University of Texas at Austin
- 1130 **124617** **Simulation of Two-Phase Flow in Reservoir Rocks Using a Lattice-Boltzmann Method**
T. Ramstad, P.E. Oren, S. Bakke, Numerical Rocks
- ePoster **124819** **A New Upscaling Method of Relative Permeability Curves for Reservoir Simulation**
K. Wang, J.E. Killough, Halliburton; K. Sepehrnoori, University of Texas at Austin

0830–1155 | R02/R03

UNCONVENTIONAL RESOURCES AND CO2 PROCESSES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Covers two critical topics in today's oil and gas industry: unconventional resources and CO2 sequestration. They are undeniably of great strategic and economic importance in today's environment if we want to meet tomorrow's needs.

Session Chairpersons: **Raymond Ambrose**, Devon Energy
Joel Le Calvez, Schlumberger

- 0830 **124253** **Pore Networks and Fluid Flow in Gas Shales**
F.P. Wang, R.M. Reed, University of Texas at Austin
- 0855 **124153** **Transference of Reservoir Uncertainty in Multi-SAGD Well Pairs**
J.P. Vanegas, C.V. Deutsch, L.B. Cunha, University of Alberta

- 0920 **124002** **CO₂-ECBM/Storage Activities at the San Juan Basin's Pump Canyon Test Site**
G. Koperna, A. Oudinot, Advanced Resources International; G. McColpin, Pinnacle Technologies; N. Lieu, J. Heath, New Mexico Institute of Mining and Technology; A. Wells, US Department of Energy; G. Young, Colorado Geological Survey
- 0945 **125029** **Residual Trapping of CO₂ in Aquifers During Countercurrent Flow**
D. Nattwongasem, K. Jessen, University of Southern California
- 1040 **125167** **Geomechanical Risk Mitigation for CO₂ Sequestration in Saline Aquifers**
D. Tran, V.K. Shrivastava, L.X. Nghiem, B.F. Kohse, Computer Modelling Group
- 1105 **124628** **The Influence of CO₂ Solubility in Brine on CO₂ Flooding Simulation**
W. Yan, E.H. Stenby, University of Denmark
- 1130 **124630** **Extraction of Dissolved Methane in Brines by CO₂ Injection: Implication for CO₂ Sequestration**
I.J. Taggart, RISC





ACCOMMODATIONS & TRAVEL

REGISTRATION

« Tuesday Morning

Tech Program Home

Wednesday Morning »

[HOME](#)[SCHEDULE](#) »[EXHIBITORS](#)[PRESS](#)[ABOUT NEW ORLEANS](#)

Tuesday, 6 October afternoon

1400-1700 | 217/218

FLOW ASSURANCE AND MODELING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPFC**

Presents flow-assurance studies and modeling results related to production of hydrocarbons with challenging properties, remediation of flow problems, and the debottlenecking of existing systems.

Session Chairpersons: **David Aron**, Petroleum Development Consultants
John Walsh, Shell

- 1400 124205 [CFD Characterization of Liquid Carryover in Gas/Liquid Separator With Droplet Coalescence Due to Vessel Internals](#)
Y. Lu, J. Greene, FMC Technologies; M. Agrawal, Ansys
- 1425 124499 [Mechanistic Modeling of Solids Separation in Solid/Liquid Hydrocyclones](#)
J.G. Severino, Cimarex Energy; L.E. Gomez, S. Wang, R.S. Mohan, O. Shoham, University of Tulsa
- 1450 124057 [Prediction of Slug Frequency for High-Viscosity Oils in Horizontal Pipes](#)
B. Gokcal, A. Al-Sarkhi, C. Sarica, University of Tulsa; E.M. Alsafran, Kuwait University
- 1545 125201 [Simplification of Coupled Reservoir and Facility Modelling To Facilitate Efficient Decision Making: An Example of a Miscible Sour Gas Flood for Enhanced Oil Recovery](#)
J. Van Berkel, Shell; A. Hassan, B. Haynes, Petroleum Development Oman; T. Woodhead, Shell
- 1610 124956 [The Importance of Asphaltene Deposition Measurements in the Design and Operation of Subsea Pipelines](#)
K. Akbarzadeh, J. Ratulowski, T. Lindvig, T.L. Davies, Schlumberger; Z. Huo, G. Broze, R. Howe, K. Lagers, Shell
- 1635 123934 [Use of Steady-State Multiphase Models To Approximate Transient Events](#)
Y. Fan, T.J. Danielson, ConocoPhillips

1400-1700 | 206/207

DATA INTERPRETATION FOR OPTIMAL WELL PERFORMANCE

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPMC**

Presents production data analysis and interpretation techniques for well performance analysis, inflow control device design, and gas well optimization.

Session Chairpersons: **Stephen Baumgartner**, Marathon Oil
Kenji Furui, ConocoPhillips

- 1400 124431 [Comprehensive Model for Flow Behavior of High-Performance Fracture Completions](#)
Y. Zhang, M.M. Porcu, C.A. Ehlig-Economides, Texas A&M University; S. Tomic, Noble Energy; M.J. Economides, University of Houston
- 1425 125240 [Automatic Detection of Pressure-Buildup Intervals From Permanent Downhole Pressure Data Using Filter Convolution](#)
S. Suzuki, D. Chorneyko, ExxonMobil
- 1450 124195 [Simulation of Liquid Unloading From a Gas Well With Coiled Tubing Using a Transient Software](#)
P.H. Salim, J. Li, BJ Services
- 1545 124677 [Understanding the Roles of Inflow-Control Devices in Optimizing Horizontal-Well Performance](#)
P. Fernandez, Z.Li, D. Zhu, Texas A&M University

- 1610 **124154** **Practical Consideration of an Inflow-Control Device Application for Reducing Water Production**
L. Ouyang, Chevron
- 1635 **124911** **Optimizing Mature Gas Wells in South Texas: A Team Approach**
L.K. Harms, J. Uralwub, B. Carrier, B. Cremar, ConocoPhillips
- ePoster **125031** **Decline-Curve Analysis for HP/HT Gas Wells: Theory and Applications**
D. Ilk, Texas A&M University; J.A. Rushing, Anadarko; T.A. Blasingame, Texas A&M University
- ePoster **124571** **Plunger-Lift Dynamic Characteristics in Single Well and Network System for Tight Gas Well Deliquification**
Y. Tang, Chevron

1400–1700 | 225/226/227

INNOVATIVE TECHNOLOGIES APPLIED TO RESERVOIR MONITORING

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERM**

Previews the theory and application of cutting-edge technology in reservoir monitoring. Includes papers on electromagnetic tomography, multi-point temperature sensing, time-lapse geochemistry, and tracer detection by laser spectroscopy.

Session Chairpersons: Daniel Gunderson, BJ Services

- 1400 **124286** **Development of a Ribbon Gravity Gradiometer and Its Applications for Reservoir Monitoring**
F.J. Neill, Gravitec
- 1425 **124932** **High-Resolution, Real-Time Casing Strain Imaging for Reservoir and Well Integrity Monitoring: Demonstration of Monitoring Capability in a Field Installation**
J.G. Pearce, F.H. Rambow, W.W. Shroyer, P.T. Huckabee, H. De Jong, D.E. Dria, Shell; B.A. Childers, T. Hall, T. Dominique, Baker Hughes
- 1450 **124689** **Tracer Detection by Laser Spectroscopy for Applications in Oil and Gas Industry**
R. Nava, H. Schuessler, M. Fahes, H. Nasrabadi, A. Kolomenski, Texas A&M University
- 1545 **124620** **Application of Relative Location Techniques to Induced Microseismicity from Hydraulic Fracturing**
J.M. Reyes-Montes, W. Pettitt, B. Hemmings, J.R. Haycox, J.R. Andrews, Applied Seismology Consultants; R. Young, University of Toronto

1400–1700 | 228/229/230

NEW CHALLENGES OF COMPLETION SYSTEMS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWC**

Presents an overview of completions systems that might change the way we design wells. Aspects of high-rate gas wells completions, downhole equipment, and intelligent well systems will be covered.

Session Chairpersons: Tim Long, Chevron
Catalin Teodoriu, Texas A&M University

- 1400 **125047** **Subsea Deployment of Instrumented Sand Screens in High-Rate Gas Wells**
G. Somaschini, J.R. Lovell, H. Abdullah, B. Chariyev, P. Singh, F. Arachman, Schlumberger
- 1425 **124396** **New Liner-Hanger Technology Improves Safety and Reduces Non-Productive Time in Deviated High-Temperature Wells in South Central Venezuela**
C. Jiminez, S. Soto, A. Leon, PDVSA; P. Marval, M.F. Schoener-Scott, Halliburton
- 1450 **125084** **Composites Improve Well-Construction Efficiency**
J. Imhoff, D. Parmer, B. Ronck, K. Smith, Y. Yuan, Baker Hughes
- 1545 **121548** **Innovative Retrievable Lock Mandrel Extends Monobore Completion Potential**
F.G. Millet, P. Foucher, Geoservices; P. Helderle, E.W.E.; D.K. Djunaedi, Vico Indonesia; P. Petel, PT Welltekindo Nusantara
- 1610 **124349** **Identifying Well Completion Applications for Passive Inflow-Control Devices**
G.A. Garcia, M.P. Coronado, P. Gavioli, Baker Hughes
- 1635 **124916** **Intelligent Well System: Providing Value or Just Another Completion?**
K. Sun, J.J. Constantine, R.A. Tirado, F. Eriksen, L. Costa, Baker Hughes

1400–1700 | R08/R09

NEW DEVELOPMENTS IN DOWNHOLE DRILLING TOOLS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Spans different cutting-edge advancements in downhole drilling tools, including rotary-steerable systems, logging-while-drilling tools, hole-enlargement tools, expandable tools, and rotating drilling liner systems.

Session Chairpersons: **Jose Cunha**, Petrobras
Joachim Oppelt, Baker Hughes

- 1400 **124121** **Salt Drilling While Underreaming Behaviors Illuminated by Distributed Downhole Measurements**
B. Kull, R.G. Duff, Chevron; A. Clarke, D. Perez, S. Stuart, National Oilwell Varco
- 1425 **124854** **Nonretrievable Rotating Liner Drilling System Successfully Deployed To Overcome Challenging Highly Stressed Rubble Zone in a GOM Ultradeepwater Sub-Salt Application**
J. Kunning, Y. Wu, I.J. Thomson, Anadarko; L.M. Marshall, D. Daigle, H.J. Mata, R. Pena, M. Hensgens, B. Eppley, Baker Hughes
- 1450 **124591** **All-in-One Concept With Expandable Tubular and Swellable Elastomer Technology: A Systems Approach to Well Design**
Y. Ifeh, E. Austin, A. Tunde, O. Adedeji, O. Phillips, SPDC
- 1545 **124674** **Development and Implementation of a Slimhole Very-High-Dogleg Through-Tubing Rotary-Steerable Drilling System**
S.K. Andersen, K.M. Winterstør, M. Eidem, StatoilHydro; R.I. Robson, Schlumberger
- 1610 **123940** **Deep Electrical Images, Geosignal, and Real-Time Inversion Help Guide Steering Decisions**
D.J. Seifert, S. Al Dossary, Saudi Aramco; R.E. Chemali, M.S. Bittar, A.A. Lotfy, J.L. Pitcher, M. Bayrakdar, Halliburton
- 1635 **124965** **Installation and Operational Performance of Horizontal Solid Expandable Openhole Production Liners in Maximum-Reservoir-Contact Wells: Case Histories**
T. Sanders, P.L. York, Weatherford; T. Joulaud, Vallourec & Mannesmann Oil and Gas; J. Teo, R. Gandikota, Weatherford
- ePoster **124973** **New Class of Logging-While-Drilling Tools Extends Possibilities for Trajectory and Stratigraphic Control While Drilling in Deep, HP/HT Wells**
S. Mazzoni, M. Borghi, Eni; G. Affleck, R.W. Christie, M. Troiano, Weatherford

1400-1700 | R04/R05

HYDRAULIC FRACTURE MODELING AND CASE HISTORIES IN SHALES AND UNCONVENTIONAL RESERVOIRS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWS**

Presents modeling solutions as well as case histories on stimulation methods for shale and unconventional reservoirs.

Session Chairpersons: **John Blevins**, Bapco
Brian Ward, Hess

- 1400 **124767** **Multistage Fracturing of Horizontal Shale Gas Wells Using >90% Foam Provides Improved Production**
H.D. Brannon, D.E. Kendrick, E. Luckey, BJ Services; A. Stipetich, Equitable Resources
- 1425 **125079** **Haynesville Shale: One Operator's Approach to Well Completions in This Evolving Play**
C.D. Pope, B. Peters, T. Benton, GMX Resources; T. Palisch, Carbo Ceramics
- 1450 **124843** **Evaluating Stimulation Effectiveness in Unconventional Gas Reservoirs**
C.L. Cipolla, E. Lolon, B.A. Dzubin, StrataGen Engineering
- 1545 **124125** **To Gel or Not To Gel?**
R.J. Curtice, W.D. Salas, M. Paterniti, Halliburton
- 1610 **125068** **Proppant Transport in Slickwater Fracturing of Shale-Gas Formations**
A. Dayan, S.M. Stracener, P.E. Clark, University of Alabama

1400-1700 | 220/221

EMERGING RESOURCES: MANAGING ENERGY INDUSTRY RESOURCES FOR THE NEXT 100 YEARS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEMGMT**

Provides insight, outlook, and analysis of key emerging resources and insights toward more effective

exploitation.

Session Chairpersons: **Al Denson**, Bonanza Creek Energy Resources
David Yaw, EnCana Oil and Gas

- 1400 **124680** **The Quest for Energy in the Black Sea**
M. Antonini, K.J. Kasparian, BJ Services
- 1425 **124885** **The Impact of Oil Prices on Oil Shale Development in the United States**
K. Biglarbigi, Intek; J. Killen, US Department of Energy; M.J. Carolus, Intek
- 1450 **125085** **Worldwide Deepwater Petroleum Exploration and Development Prospectivity: Comparative Analysis of Efforts and Outcomes**
O.O. Iledare, Louisiana State University
- 1545 **124490** **Oil, Natural Gas, and NGL Endowment in North, Central, and South America**
R.F. Aguilera, University of Vienna; R. Aguilera, University of Calgary

1400–1700 | R06/R07

FLUID FLOW SIMULATION TECHNIQUES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Discusses the development and application of fluid flow simulation techniques.

Session Chairpersons: **Luiz Amado**, Petrobras
Leonardo Bermudez, Chevron

- 1400 **124980** **A Next-Generation Reservoir Simulator as an Enabling Technology for a Complex Discrete Fracture Modeling Workflow**
K. Lim, M. Hui, B.T. Mallison, Chevron
- 1425 **124307** **Development of a Geomechanical Reservoir Modelling Workflow and Simulations**
B. Bostrom, StatoilHydro
- 1450 **124252** **Understanding Reservoir Mechanisms Using Phase and Component Streamline Tracing and Visualization**
S. Kumar, A. Datta-Gupta, Texas A&M University; E. Jimenez, Shell
- 1545 **124364** **Development and Application of a New Well Pattern Optimization Algorithm for Optimizing Large-Scale Field Development**
J.E. Onwunalu, L. Durllofsky, Stanford University
- 1610 **125251** **Coupled Completion and Reservoir Simulation Technology for Well Performance Optimization**
M. Grobert, J. Wan, S. Ghai, S. Livescu, W. Brown, T. Long, ExxonMobil
- 1635 **123794** **Coupled Reservoir Flow Simulation: Fault Leakage Analysis**
L.G. Rodrigues, Petrobras; L.B. Cunha, R.J. Chalaturnyk, University of Alberta
- ePoster **123794** **Coupled Reservoir Flow Simulation: Fault Leakage Analysis**
L.G. Rodrigues, L.B. Cunha, R.J. Chalaturnyk, University of Alberta

1400–1700 | 211/212/213

FLOW IN FRACTURED POROUS MEDIA

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERMFPM**

Offers new techniques to model fluid flow in fractured reservoirs using analytical and numerical methods. Includes papers that apply an analytical technique to an actual reservoir field case; validate an analytical model using laboratory experiments; use an analytical method together with appropriate use of a numerical simulator resulting in a novel averaging technique that mimics the fluid displacement in fractured porous media; and investigate the effect of CO₂ injection in coal beds and cleat spacing through laboratory experiments.

Session Chairpersons: **Seung Kam**, Louisiana State University
Jawaid Saeedi, Schlumberger

- 1400 **125255** **A Technique for Averaging Matrix-Fracture Fluid Transfer Rates for Multiple Displacement Processes in a Naturally Fractured Reservoir Model**
T.K. Eccles, ExxonMobil
- 1425 **124918** **A New Approach to Compositional Modeling of CO₂ Injection in Fractured Media Compared to Experimental Data**
J. Moortagat, A. Firoozabadi, M. Moravvej, Reservoir Engineering Research Institute
- 1450 **124348** **Permeability Variations in an Upper Freeport Coal Core Due to Changes in Effective Stress and Sorption**

- S.A. Jikich, R.T. McLendon, D.H. Smith, US Department of Energy
- 1545 **124745** **Investigation of Stress-Dependent Fracture Permeability in Naturally Fractured Reservoirs Using a Fully Coupled Poroelastic Displacement Discontinuity Model**
Q. Tao, C.A. Ehlig-Economides, A. Ghassemi, Texas A&M University
- 1610 **123900** **Naturally Fractured Reservoir Three-Dimensional Analytical Modeling: Theory and Case Study**
V.X. Nguyen, Y.N. Abousleiman, University of Oklahoma
- 1635 **122612** **Simulation of Multiphase Non-Darcy Flow in Porous and Fractured Media**
Y. Wu, B. Lai, J.L. Miskimins, Colorado School of Mines; Y. Di, Peking University
- ePoster **124047** **Laboratory and Field Scale Analysis of Steam-Over-Solvent Injection in Fractured Reservoirs (SOS-FR) for Heavy-Oil Recovery**
A.M. Al Bahlani, T. Babadagli, University of Alberta
- ePoster **124484** **New Technique To Determine Biot Coefficient for Stress-Sensitive Dual-Porosity Reservoirs**
H.H. Abass, A.M. Al-Tahini, Saudi Aramco; Y. Abousleiman, University of Oklahoma; M. Khan, Saudi Aramco

1400-1700 | R02/R03

EOR PROCESSES AND APPLICATIONS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Shows examples of injection of polymer, surfactant-polymer, alkali-surfactant-gas, CO₂, and other fluids for depleted and water-flooded reservoirs.

Session Chairpersons: **Randal Brush**, William M. Cobb & Associates
Mazher Ibrahim, EOG Resources

- 1400 **124001** **Oil-Recovery Predictions for Surfactant-Polymer Flooding**
K. Rai, R.T. Johns, L.W. Lake, M. Delshad, University of Texas at Austin
- 1425 **123971** **Streamline-Based Simulation of Non-Newtonian Polymer Flooding**
A.M. Al-Sofi, M.J. Blunt, Imperial College
- 1450 **124798** **Development of a Comprehensive Rheological Property Database for EOR Polymers**
S. Lee, D.H. Kim, C. Huh, G.A. Pope, University of Texas at Austin
- 1545 **124257** **A New Method for Fast Screening of Long-Term Thermal Stability of Water-Soluble Polymers For Reservoir Conformance Control**
Y. Wu, Missouri University of Science and Technology; K. Wang, California Institute of Technology; B. Bai, Missouri University of Science and Technology; P. Shuler, Y. Tang, California Institute of Technology
- 1610 **124197** **Injectivity and Gravity Segregation in WAG and SWAG Enhanced Oil Recovery**
A. Faisal, K. Bisdorn, B. Zhumabek, A. Mojaddam Zadeh, W.R. Rossen, Delft University
- 1635 **124907** **Compositional Modeling in Three-Phase Flow for CO₂ and Other Fluid Injections Using Higher-Order Finite Element Methods**
S. Sun, A. Firoozabadi, Reservoir Engineering Research Institute
- ePoster **124977** **Development of a Successful Chemical Treatment for Gas Wells With Water and Condensate Blocking Damage**
V.S. Bang, ConocoPhillips; G.A. Pope, M.M. Sharma, University of Texas at Austin; J.R. Baran, 3M





ACCOMMODATIONS & TRAVEL

REGISTRATION

« Tuesday afternoon

Tech Program Home

Wednesday afternoon »

HOME

SCHEDULE »

EXHIBITORS

PRESS

ABOUT NEW ORLEANS

Wednesday, 7 October morning

0830-1125 | 217/218

ADVANCES IN KNOWLEDGE TRANSFER

• Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEETP**

Presents cases studies to understand what is working and what is not working in knowledge transfer.

Session Chairpersons: **Abdallah Harouaka**, King Fahd University
Frank Platt, Texas A&M University

- | | | |
|---------|---------------|--|
| 0830 | 124419 | Management and Operation of the "Colorado" School Field: An Interinstitutional Experience Between the Academy and the Industry
Z.H. Calderon Carrillo, L. Acevedo, Universidad Industrial de Santander; N.F. Saavedra, Ecopetrol |
| 0855 | 124748 | Real-Time, Long-Distance Teaching: Overview of 2 Years of Tele-Teaching Between Texas and Germany
C. Teodoriu, Texas A&M University; K.M. Reinicke, University of Clausthal; G. Falcone, Texas A&M University |
| 0920 | 125045 | Experiences In Introducing 3D Visualization In Petroleum Engineering Education
A. Gupta, F. Platt, Texas A&M University |
| 0945 | 124260 | The Growing Importance of Petroleum Reserves Estimating and Auditing Standards
D.R. Harrell, Ryder Scott |
| 1010 | 124957 | A Successful and Economic Way To Have the Right Professionals
A. Reyes-Harker, N. Saavedra, Ecopetrol; W. Plata, Strycom |
| 1035 | 125230 | Training the Next Generation of Project Leaders
R. Massingill, J. Upper, ExxonMobil |
| 1100 | 124777 | Expanding Knowledge to Young Engineers in Our Industry
S.A. Jabaley, Shell |
| ePoster | 123166 | A Study on Peer Assessment of Teamwork Projects in Undergraduate Petroleum Engineering Education
Y. Cinar, University of New South Wales; A. Bilgin, Macquarie University |
| ePoster | 124742 | Adjustments in Teaching Petroleum Engineering Field Operations Lab: An Experience
M. Radonjic, D. Bourgoyne, S. Panchadhara, Louisiana State University |
| ePoster | 124200 | Designing a Successful Training Class: Benefits and Challenges of Knowledge Transfer From Chemists to Engineers
M.A. Vorderbruggen, G. Woo, BJ Services |
| ePoster | 124487 | A New Performance Award System for Petroleum Engineering Students: Development and Implementation
J.M. Williams, The Petroleum Institute |

0830-1125 | 206/207

EXPANDING THE HORIZONS OF DIGITAL ENERGY

Session organized by the SPE Digital Energy Technical Section

• Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDE**

Looks beyond current achievements in the application of digital technologies to implement new systems and work processes that increase the efficiency and effectiveness of reservoir, well, and facilities performance. Describes how progress in this area is shaping future directions.

Session Chairpersons: **Philippe Flichy**, IO-hub
Mehrzad Mahdavi, DEXA Systems

0830 Introduction to Digital Energy Session

Kamel Bennaceur, Schlumberger

0835 Enterprise DOF Deployment Approach

Michel-Jean Guille, Total

0905 Assessment of DOF Adoption Methodology

Don Paul, Energy and Technology Strategies

0945 Panel Presentations: Production, Drilling and Reservoir Perspective on DOF

Moderator: Herb Yuan, Shell

Panelists:

Don Moore, Occidental; John Blaymires, Hess; Peter Breunig, Chevron; Iraj Ershagi, University of Southern California; James Pappas

0830-1125 | 225/226/227

ARTIFICIAL LIFT

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWO**

Covers interesting papers on new technologies, selection methods, and advanced analysis techniques.

Session Chairpersons: **Tom Gee**, Weatherford
Neil Skinner, Halliburton

0830 123996 First 4.5-in. Through-Tubing ESP With Downhole Wet Connect

J.C. Patterson, ConocoPhillips; P. Head, P.A. Mouldsdale, Artificial Lift Company

0855 123938 The Geared Centrifugal Pump: A New High-Volume Lift System

J.C. Patterson, ConocoPhillips; W.B. Morrow, Harrier Technologies; M.R. Berry, Mike Berry Consultants

0920 124515 Plunger Lift Modeling Toward Efficient Liquid Unloading in Gas Wells

G. Chava, G. Falcone, C. Teodoriu, Texas A&M University

0945 123684 Fuzzy Analysis of ESP System Performance

D.G. Thornhill, D. Zhu, Baker Hughes

1010 123881 The Piston-Tubing-Rod Performance Curve: A New and Useful Concept for Sucker-Rod-Pumping Analysis

S.A. Caicedo, PDVSA; S.D. Carma, University Central Venezuela

1035 12029 Selection Criteria for Artificial Lift Technique in Bokor Field

M. Wahba, M.B. Jadid, I.B. Subari, M.B. Talib, Petronas; P.V. Pattay, D. Saenz, Schlumberger

1100 124986 Laboratory Testing of Downhole Gas Separators in Inclined Wellbore Configurations

O.A. Alabi, A.L. Podio, University of Texas at Austin

ePoster 123881 The Piston-Tubing-Rod Performance Curve: A New and Useful Concept for Sucker-Rod-Pumping Analysis

S.A. Caicedo, PDVSA; S.D. Carma, University Central Venezuela

0830-1125 | 228/229/230

**PART 1: APPLIED TECHNOLOGY—ONSHORE HORIZONTAL
 PART 2: APPLIED TECHNOLOGY—PERFORATING SYSTEMS**

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWC**

Split into two sections addressing applied technology: the onshore horizontal portion will be a series of horizontal technology case studies and the perforating systems section is a combination of papers presenting new perforating technology and the evaluation of perforator performance.

Session Chairpersons: **Stephen Lipari**, Aspect Abundant Shale
Daniel Wood, Devon Energy

0830 124686 Stimulation Results and Completion Implications From the Consortium Multiwell Project in the North Dakota Bakken Shale

T.N. Olsen, E. Gomez, Schlumberger; D.D. McCrady, XTO Energy; G. Forrest, A. Perakis, P. Kaufman, Schlumberger

0855 123651 A Comprehensive Modeling Analysis of Borehole Stability and Production Liner

Deformation for Inclined/Horizontal Wells Completed in a Highly Compacting Chalk Formation

K. Furui, G. Fuh, N.A. Abdelmalek, ConocoPhillips; N. Morita, Waseda University

- 0920 **124120** **Cemented Ball-Activated Sliding Sleeves Improve Well Economics and Efficiency**
T. Bozeman, D.L. Degner, EnCana
- 0945 **125008** **A Novel Approach to Identifying Refracturing Candidates and Executing Refracture Treatments in Multiple Zone Reservoirs**
R.E. Barba, Integrated Energy Services
- 1010 **124783** **Predicting Depth of Penetration of Downhole Perforators**
M. Gladkikh, W. Harvey, Baker Hughes; P.M. Halleck, Pennsylvania State University
- 1035 **125020** **A Survey of Industry Models for Perforator Performance: Suggestions for Improvements**
L.A. Behrmann, B.M. Grove, I.C. Walton, L. Zhan, C. Graham, D.C. Atwood, J.P. Harvey, Schlumberger
- 1100 **124343** **Perforator Performance Study Determines Optimum System and Achieves Field Performance Projections**
M. Rook, Talisman; D.J. Haggerty, D. Manning, C. Quattlebaum, Halliburton

0830-1125 | R08/R09

WELLBORE STABILITY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Provides a general overview of current wellbore stability theory and discusses field applications of lost circulation and wellbore strengthening while drilling. Also discusses use of advanced modeling applications (pore pressure and poroelastic) to predict downhole behavior.

Session Chairpersons: **Terry Hemphill**, Halliburton
Philippe Marchina, Total

- 0830 **124669** **Wellbore Stability: A Critical Review and Introduction to DEM**
Y. Kang, M. Yu, S. Miska, N. Takach, University of Tulsa
- 0855 **124982** **Geomechanical Modeling Helps Designing the Wells in the Neuquen Basin, Argentina**
E.M. Araujo, GeoMechanics International; D. Casalis, Petrobras; C.D. Ward, J. Sheridan, GeoMechanics International
- 0920 **125093** **Avoiding Losses in Depleted and Weak Zones by Constantly Strengthening Wellbores**
E. Van Oort, Shell; J.E. Friedheim, T. Pierce, J. Lee, M-I SWACO
- 0945 **124054** **Improved Kick Management During MPD by Real-Time Pore-Pressure Estimation**
J. Gravdal, International Research Institute of Stavanger; M. Nikolaou, University of Houston; O. Breyholtz, L. Carlsen, International Research Institute of Stavanger
- 1010 **124295** **New Integrated Approach for Updating Pore-Pressure Predictions During Drilling**
M. Lüthje, H. Helset, S. Hovland, SINTEF
- 1035 **123901** **Geomechanical Coupled Poromechanics Solutions While Drilling in Naturally Fractured Shale Formations With Field Case Applications**
V.X. Nguyen, Y.N. Abousleiman, University of Oklahoma; T. Hemphill, Halliburton
- 1100 **124422** **The Porochemoelastoc Coupled Solutions of Stress and Pressure With Applications to Wellbore Stability in Chemically Active Shale**
V.X. Nguyen, Y.N. Abousleiman, University of Oklahoma
- ePoster **123427** **Coupled Thermoporomechanical Effects on Borehole Stability**
Z. Zhai, K.S. Zaki, S.A. Marinello, A.S. Abou-Sayed, Advantek International

0830-1125 | R04/R05

MATRIX AND FRACTURE STIMULATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWS**

Shares theoretical, laboratory, and field experiences for fluids in fracturing and stimulation treatments.

Session Chairpersons: **Jorge Manrique**, Shell
Mathew Samuel, Schlumberger

- 0830 **124212** **Well Treatment Fluids Prepared With Oilfield Produced Water**
L. Li, K.E. Eliseeva, V. Eliseev, O.A. Bustos, K.W. England, P.R. Howard, C.L. Boney, M.D. Parris, S.A. Ali, Schlumberger

- 0855 **125024** **A Novel α -Amylase Enzyme-Stabilizers for Applications at High Temperatures**
M.M. Samuel, A.A. Mohsen, A. Ejan, Y. Ooi, S. Ashraf, Schlumberger; H.A. Nasr-El-Din, Texas A&M University
- 0920 **124141** **The Art and Practice of Acid Placement and Diversion: History, Present State and Future**
L.J. Kalfayan, Hess; A.N. Martin, BJ Services
- 0945 **124704** **Design Criteria and Application of High-Density Brine-Based Fracturing Fluid for Deepwater Frac and Packs**
X. Qiu, W.E. Martch, L.N. Morgenthaler, J. Adams, H.S. Vu, Shell
- 1010 **124755** **A Theoretical Study of Acid Fracture Conductivity Under Closure Stress**
J. Deng, A.D. Hill, D. Zhu, Texas A&M University
- 1035 **124874** **Acid Re-fracturing: Is It a Good Practice?**
M. Pournik, M. Mahmoud, H.A. Nasr-El-Din, Texas A&M University
- 1100 **121757** **Rheological Characterization of Novel Delayed-Transition Metal Crosslinked Fracturing Fluids: Correlation With First Field Applications**
A.L. Mirakyan, C. Abad, M.D. Parris, Y. Chen, Schlumberger
- ePoster **124881** **A Placement Model for Matrix Acidizing of Vertically Extensive, Heterogeneous Gas Reservoirs**
M. Nozaki, A.D. Hill, Texas A&M University

0830–1125 | 220/221

SAFETY AND CO₂ SEQUESTRATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEHSE**

Offers a mixture of high-priority topics ranging from the latest information on hurricanes in the Gulf of Mexico, safety management systems, and carbon dioxide capture and sequestration.

Session Chairpersons: **Deonarine Jaggernauth**, Petroleum Company—Trinidad & Tobago
Enid Sullivan Los Alamos National Laboratory

- 0830 **125232** **Managing Safety to Achieve Operating Excellence**
T. Prihandoko, S. Mahan, M. Nurdin, M. Bourhanuddin, ExxonMobil
- 0855 **124430** **Sequestering Carbon Dioxide in a Closed Underground Volume**
M.J. Economides, University of Houston; C. Economides, Texas A&M University
- 0920 **124003** **Lessons Learned While Conducting Drilling and CO₂ Injection Operations at the Victor J. Daniel Power Plant in Mississippi**
G. Koperna, D.E. Riestenberg, R.L. Petrusak, Advanced Resources International; R.A. Esposito, Southern Company Generation; R. Rhudy, Electrical Power Research Institute
- 0945 **124909** **CO₂ Sequestration: Temperature and Gas Compositional Effects on the Kinetics of Mineralogical Reactions**
P. Mandalaparty, M.D. Deo, J. Moore, University of Utah
- 1010 **123864** **Are There Less Costly Ways to Sequester Carbon Than CCS?**
S.C. Gupta, EnCana

0830–1125 | R06/R07

ROCK AND FLUID PROPERTIES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEFE**

Highlights application of low-cost mud log gas, produced water reinjection, advanced sonic log interpretation, nanotechnology, high-resolution CT digital images, and modeled numerical well tests to measure, estimate, and model the rock and fluid properties.

Session Chairpersons: **Nigel Radcliffe**, ExxonMobil
Sanjeev Thakur, Kuwait Oil

- 0830 **124315** **Technology for Determining Reservoir Pressure From Mud Log Gas Improves Mature, Tight-Gas Asset Performance: A Case Study of Ada Field, North Louisiana**
S.G. LaPierre, B.H. Prine, M. Pickrel, ConocoPhillips
- 0855 **124161** **Determination of Rock Strength Using Advanced Sonic Log Interpretation Techniques**
C.M. Sayers, Schlumberger; C.L. Russell, M. Pelorosso, Eni; J. Adachi, J.S. Pastor, V. Singh, K.M. Tagbor, P.J. Hooyman, Schlumberger
- 0920 **125218** **Drill-Bit Metamorphism: Recognition and Impact on Show Evaluation**
L.M. Wenger, R.J. Pottorf, G. Macleod, G. Otten, S. Dreyfus, H.K. Justwan, ExxonMobil; E.S. Wood, University of South Carolina

- 0945 **124428** **GeoMechanics Field Characterization of the Two Prolific US Midwest Gas Plays With Advanced Wireline Logging Tools**
Y. Abousleiman, M.H. Tran, S. Hoang, University of Oklahoma; A. Ortega, F. Ulm, Massachusetts Institute of Technology
- 1010 **123751** **Properties of Tight Gas Sand From Digital Images**
M.J. Metz, G. Briceno, Occidental Oil and Gas; Q. Fang, E. Diaz, A. Grader, J. Dvorkin, Ingrain
- 1035 **124415** **Dynamics Characteristic Evaluation Methods of Stress-Sensitive Abnormal High Pressure Gas Reservoir**
X. Xiao, S. Hedong, Y Han, J. Yang, Petrochina
- 1100 **124790** **Pore-Pressure Depletion and Effective Stress Issues in the Gulf of Mexico's Lower Tertiary Play**
G.N. Boitnott, New England Research; J. Shafer, Consultant; T.W. Miller, Geomechanics

0830-1125 | 211/212/213

HEAVY OIL AND UNCONVENTIONAL RESOURCES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERMFPM**

Presents technical advances in the areas of recovery mechanisms and flow in porous media of heavy oil, gas hydrate, and tight gas reservoirs. Offers heavy oil papers on steam solvent, displacement of viscous oil by polymer, convective heat transfer, and concentration-dependant diffusivity coefficient determination in solvent systems. Offers hydrate and tight gas papers on transport properties of hydrate-bearing formations, flow in fractured tight gas reservoirs, and natural gas solubility enhancement in water in small pores.

Session Chairpersons: **Mridul Kumar**, Chevron
George Petrosky, ConocoPhillips

- 0830 **124717** **Coupling Capillarity-Controlled Fluid Displacement With Unconsolidated Sediment Mechanics: Grain Scale Fracture Opening**
M. Prodanovic, J. Holder, S.L. Bryant, University of Texas at Austin
- 0855 **122400** **The Displacement of Viscous Oil by Associative Polymer Solutions**
M. Buchgraber, University of Leoben; T. Clemens, OMV Exploration and Production; L.M. Castanier, A.R. Kovscek, Stanford University
- 0920 **124072** **Analytic Investigation of Convection During Conduction Heating of a Heavy-Oil Reservoir**
K.A. Lawal, V. Vesovic, Imperial College
- 0945 **124832** **Determination of Concentration-Dependent Diffusivity Coefficient in Solvent Gas-Heavy Oil Systems**
S. Etminan, B.B. Maini, H. Hassanzadeh, Z. Chen, University of Calgary
- 1010 **124882** **Transport Properties of Hydrate-Bearing Formations From Pore-Scale Modeling**
J. Phirani, R. Pitchumani, K.K. Mohanty, University of Houston
- 1035 **124930** **Mechanistic Modeling of Emulsion Formation and Heat Transfer During the Steam-Assisted Gravity Drainage (SAGD) Process**
P. Azom, S. Srinivasan, University of Texas at Austin
- 1100 **124491** **A Molecular Dynamics Study on Natural Gas Solubility Enhancement in Water Confined to Small Pores**
M. Campos, I. Akkutlu, R.F. Sigal, University of Oklahoma

0830-1125 | R02/R03

RESERVOIR ENGINEERING FUNDAMENTALS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERE**

Discusses classic reservoir engineering methods and techniques.

Session Chairpersons: **Robert Hoff**, Esso
Keshav Narayanan, Occidental Oil and Gas

- 0830 **124613** **Analysis of Production Decline in Waterflood Reservoirs**
Z. Yang, Aera Energy
- 0855 **123982** **A New Pressure-Rate Deconvolution Algorithm To Analyze Wireline Formation Tester and Well-Test Data**
E.A. Pimonov, C. Ayan, Schlumberger; M. Onur, Istanbul Technical University; F.J. Kuchuk, Schlumberger
- 0920 **124524** **Effect of Material Balance on Well-Test Analysis**
A. Madahar, G. Stewart, Weatherford; A.C. Grngarten, Imperial College

- 0945 **124041** [New Inflow Performance Relationship for Solution-Gas-Drive Oil Reservoirs](#)
M.A. Elias, A.H. El-banbi, H. Ahmed, K. Fattah, E.A. El-Tayeb, Cairo University
- 1010 **124827** [Simultaneous Interpretation of Pressure, Temperature, and Flowrate Data for Improved Model Identification and Reservoir Parameter Estimation](#)
O.O. Duru, R.N. Horne, Stanford University
- 1035 **123930** [Identification and Characterization of High Conductive Layers in Waterfloods](#)
C. Kabir, Hess; B. Izgec, Chevron
- 1100 **124538** [Experimental and Theoretical Studies of Three-Phase Relative Permeability](#)
F. Ahmadloo, K. Asghari, B. Jamaloe, University of Regina





ACCOMMODATIONS & TRAVEL

REGISTRATION

[« Wednesday morning](#)[Tech Program Home](#)[HOME](#)[SCHEDULE](#) »[EXHIBITORS](#)[PRESS](#)[ABOUT NEW ORLEANS](#)

Wednesday, 7 October afternoon

1400-1630 | 217/218

NEW TRAINING METHODS FOR THE 21ST CENTURY IN THE E&P INDUSTRY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEETP**

Offers what's new and what the industry will see in the near future in training methods.

Moderators: **Lee Dillenbeck**, Chevron
Satinder Purewal, Shell

Panelists: **Tom Blasingame**, Texas A&M University
Roberto Aguilera, University of Calgary
Turgay Ertekin, Pennsylvania State University
Alain Gringarten, Imperial College
Bill Fiffick, BJ Services

1400-1630 | 206/207

FLOW ASSURANCE AND MULTIPHASE FLOW

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEPMC**

Discusses the modeling and measurement of multiphase flow and various aspects of flow assurance and corrosion management.

Session Chairpersons: **Dennis Dria**, Shell
Elizabeth Zuluaga, Chevron

- | | | |
|---------|---------------|--|
| 1400 | 125235 | Multivariable Control for Upstream Gas Processing
M.J. Vines, ExxonMobil |
| 1425 | 124535 | Flow Assurance Design and Initial Operating Experience From Blind Faith in Deepwater Gulf of Mexico
S. Subramanian, M.P. Price, R.A. Pinnick, Chevron |
| 1450 | 124188 | Real-Time Response to Field Corrosion Data Through an Electronic Client Portal Interface Leads to Decreased Well Failures
R. Higgins, J. Lamb, S. Szymczak, BJ Services |
| 1515 | 124725 | Modeling of Multiphase Wax Deposition in Submarine Pipelines After Shut-In
G.G. Michel Villazon, F. Civan, University of Oklahoma |
| 1540 | 124542 | Experimental Study on High-Viscosity Oil/Water Flow in Horizontal and Vertical Pipes
D. Vuong, H. Zhang, M. Li, C. Sarica, M. Li, University of Tulsa |
| 1605 | 124181 | A Mechanistic Model for Gas/Liquid Flow in Upward Vertical Annuli
T. Yu, H. Zhang, M. Li, C. Sarica, University of Tulsa |
| ePoster | 124875 | Qualification Testing Toward Utilizing an In Well Flowmeter for Production Optimization and Allocation in Nigeria
J.T. Ong, Baker Hughes; D. Meinert, Chevron; A.A. Oyewole, M. Blowers, ABCO; R. Thomson, Baker Hughes |

1400-1630 | 225/226/227

WELL INTERVENTION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWO**

Addresses some of the new technologies used to fix downhole problems quicker, easier, and safer with less operational and economic impact.

Session Chairpersons: Tom Gee, Weatherford
Neal Skinner, Halliburton

- 1400 **125258** [Single Successful Subsea Interventions in North Sea Beryl Field](#)
S.B. Lonnes, B. Williams, S. Burlison, ExxonMobil
- 1425 **124156** [Application of Chemical Concentrates to Well Annulus via Patented High Quality, Low Liquid Volume Foam Application](#)
J.G. Darby, J.M. Brown, BJ Chemical
- 1450 **124616** [Isolation Valve Contingencies Using Wireline Stroker and Tractor Technologies](#)
B.J. Schwanitz, Welltec
- 1515 **123826** [A Novel Approach of Wireline Intervention for Newly Drilled Well: Sotong Case Study and Best Practices](#)
M. Abdul Razak, M. Hashim, Z. Ali, N. Ezalina, Petronas
- ePoster **124443** [Collaboration in Extracting More Oil in Mature Dual-Completion Wells](#)
M.B. Khalid, R.E. Poit, Petronas; M. Jumaat, Schlumberger

1400-1630 | 228/229/230

COMPLETION TECHNOLOGY

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWC**

Features papers describing enabling technologies to improve operational efficiencies in well completions. Topics include new tool developments, well completion techniques, and production enhancement advances.

Session Chairpersons: Martin Coronado, Baker Hughes
Michael Weiss, J-W Operating

- 1400 **124998** [Field Test Results of an Electromechanical Precision Pipe-Cutting Tool](#)
O.N. Fanini, K. Fuhst, D. Cousin, M. Moeller, M.A. Ahmed, B. Ross, S. Krueger, P. Lowson, S.M. Cattanaach, Baker Hughes
- 1425 **123869** [Clean Up Acid System for Gravel-Pack Completions Without Increasing Water Production](#)
E.L. Barragan, F.L. Serrano, Andes Petroleum; M. Cayo, C.R. Ramirez, Halliburton
- 1450 **124797** [Monobore Completion System Provides Low-Cost Completion Option](#)
D. Ingvarlsen, J.H. Kritzler, Baker Hughes
- 1515 **120559** [Metrics for Evaluating Cementing Success](#)
D.A. Duckworth, BJ Services
- 1540 **125083** [Bidirectional Downhole Barrier Valve for Lubricator Applications](#)
T. Andrews, J. Sloan, Baker Hughes
- 1605 **124966** [New Slickline Smart-Release Tool Mitigates Wire Recovery Issues in Extreme Well Conditions](#)
J. Clemens, D.W. Moore, J. Schram, J. Foster, Halliburton; J. Garrett, Shell

1400-1630 | R08/R09

DRILLING OPTIMIZATION

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEDO**

Explores the optimization efforts taken to conquer deeper waters and remote locations. The integration and implementation of modeling and technology is shown to improve drilling performance.

Session Chairpersons: Fred Florence, National Oilwell Varco
Kenneth Dupal, Expert E&P Consultants

- 1400 **125111** [Challenges and on Drilling and Completion Operations of Deep Wells in Ultradeepwater Zones in the Gulf of Mexico](#)
J.C. Cunha, O. Moreira, G. Azevedo, B.Pereira, L. Rocha, Petrobras
- 1425 **124324** [Drilling and Evaluation Technologies Extend Operating Limits in Challenging High-Pressure Deepwater Environments](#)
W. Denham, Shell; B.A. Donadieu, E. Lee, R. Mathur, A. Srinivasan, Baker Hughes
- 1450 **124729** [Combining Drilling and Evaluation Technology in Remote Operations Increases Reliability](#)
A.K. Thorsen, E. Vargervik, V. Nygaard, Baker Hughes
- 1515 **124710** [Wellbore, Tortuosity, Torsion, Drilling Indices and Energy: What Do They Have To Do With Wellpath Design?](#)
R. Samuel, Halliburton; X. Liu, Sinopec
- 1540 **124142** [Comprehensive Drilling Model Analyzes BHT Parameters](#)

A.W. Iyoho, J.H. Rask, J.B. Wieseneck, L.S. Grant, Shell

1605 **124316** **How To Avoid Shale Intervals in the Grane Reservoir by Utilizing Real-Time Geosteering Data and Openhole Sidetracking**

M. Bakka, K.J. Ronning, A. Saebo, StatoilHydro; K.R. Jensen, E. Saeverhagen, C. Erichsen, Baker Hughes

1400-1630 | R04/R05

STIMULATION IN NATURALLY FRACTURED RESERVOIRS

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEWS**

Focuses on the modeling and measurements of hydraulic fracture growth in naturally-fractured reservoirs and its interaction with natural fractures, performance evaluation, and treatment data analysis.

Session Chairpersons: **Jing Du**, Pinnacle Technologies
Richard Keck, BP

1400 **123827** **Combination of Chemical Diverters and Degradable Fiber Technology Enhances the Success of Stimulation in Complex Carbonate Environments**

Q. Dashti, Kuwait Oil; H. Liu, Schlumberger; T. Cirrincione, M.B. Al-Saqabi, Kuwait Oil; T.M. Lesko, A.B. Abdul Majid, Schlumberger

1425 **124135** **After-Closure Analysis for Unconventional Reservoirs and Completion**

M.Y. Soliman, C.G. Miranda, H. Wang, Halliburton

1450 **124884** **Numerical Modeling of Multistranded Hydraulic Fracture Propagation: Accounting for the Interaction Between Induced and Nature Fractures**

A. Dahi Taleghani, J.E. Olson, University of Texas at Austin

1515 **124697** **Characterization of Hydraulically Induced Shale Fracture Network Using an Analytical/Semianalytical Model**

W. Xu, M.J. Thiercelin, I.C. Walton, Schlumberger

1540 **124269** **A Fully Coupled Numerical Poroelastic Model To Investigate Interaction Between Induced Hydraulic Fracture and Pre-existing Natural Fracture in a Naturally Fractured Reservoir: Potential Application in Tight Gas and Geothermal Reservoirs**

M.M. Rahman, S.S. Rahman, University of New South Wales

1605 **124919** **Measuring Hydraulic Fracture Growth in Naturally Fractured Rock**

R.G. Jeffrey, A. Bunger, CSIRO Petroleum; B. Lecampion, Schlumberger; X. Zhang, Z. Chen, CSIRO Petroleum; A. Van As, Rio Tinto Technology and Innovation; D.P. Allison, W. De Beer, Golder Associates; J.W. Dudley, Shell; E. Siebrits, M.J. Thiercelin, Schlumberger; M. Mainguy, Total

ePoster **124323** **Multicomponent Advisory System Can Expedite Evaluation of Unconventional Gas Reservoirs**

Y. Wei, S.A. Holditch, Texas A&M University

1400-1630 | 220/221

ENVIRONMENTAL ISSUES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEHSE**

Discusses a range of environmental issues in oil and gas activities, including desalination, heat-related considerations, and how to minimize the environmental footprint of drilling operations.

Session Chairpersons: **David Burnett**, Texas A&M University
Arlette Ruiz, Champion Technologies

1400 **124235** **Minimizing Environmental Footprint by Utilizing Prevention Technology**

M. Clark, Q. Holtby, Katch Kan

1425 **122931** **Environmental Considerations of Modern Shale Gas Development**

J.D. Arthur, B. Bohm, D. Cornue, All Consulting

1450 **124248** **Photo Review: Remote Assessment of HSE Conditions at Operational Facilities Using Digital Photography and Online Meeting Capabilities**

F. Simon, R.A. Godfrey, L. Pilling, J.M. Graf, BJ Services

1515 **124897** **A Study of Heat-Related Factors Caused by Color Selection of Hard Hats and FRC Garments in Outdoor Work Environments**

M. Davis, Lockton; D.R. Kaminski, M.C. Oliver, J. Graf, L. Pilling, BJ Services

1540 **124462** **Seawater Desalination Using Excess Heat From GTL Process**

J. Srivatsan, P. Linke, M. Amani, Texas A&M University-Qatar

1400–1630 | R06/R07

FORMATION EVALUATION TECHNOLOGY UPDATE

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCEFE**

Demonstrates newer developments and improvements in density, sonic, geochemical, LWD, and production logging technologies. Discusses newer methods on analysis of tracer test data, inversion techniques, and nuclear-log simulation. Formation evaluation in vertical, highly-deviated, and horizontal wells would be benefited by application of these newer developments and methodologies.

Session Chairpersons: **Annie Audibert-Hayet**, Total
Leon Beugelsdijk, Shell

- 1400 **124614** **Determining Reservoir Properties and Flood Performance From Tracer Test Analysis**
G.M. Shook, Chevron; G.A. Pope, University of Texas at Austin; K. Asakawa, PetroTel
- 1425 **125028** **Improving the Process of Understanding Multiprobe Production Logging Tools From the Field to Final Answer**
G.J. Frisch, D.F. Dorffer, M. Jung, Halliburton; A. Zett, M.J. Webster, BP
- 1450 **123890** **Laminated Sand-Shale Formation Evaluation Using Azimuthal LWD Resistivity**
R.J. Bootle, M. Waugh, BG Group; M.S. Bittar, F. Hveding, W.E. Hendricks, S. Panoram, Halliburton
- 1515 **124234** **The Direct Measurement of Carbon in Wells Containing Oil and Natural Gas Using a Pulsed-Neutron Mineralogy Tool**
R.R. Pemper, X. Han, F.E. Mendez, D. Jacobi, B. LeCompte, M. Bratovich, G. Feuerbacher, M. Bruner, S. Gliven, Baker Hughes
- 1540 **123865** **Wellbore Profiling With Broadband Multipole Sonic Tools**
J. Market, W. Canady, P. Elliott, D. Hinz, Halliburton
- 1605 **124193** **A Second-Order Fast-Forward Model for a Gamma-Gamma Density Logging Tool**
T. Zhou, J. Miles, C. Case, J.M. Chiamonte, D. Ellis, Schlumberger
- ePoster **124879** **Rapid, Interactive Assessment of Petrophysical and Geometrical Effects on Density and Neutron Logs Acquired in Vertical and Deviated Wells**
Z. Heidari, C. Torres-Verdin, A. Mendoza, D. Ijasan, B. Voss, University of Texas at Austin; W.E. Preeg, Consultant
- ePoster **123992** **Field Test Results of a New Neutron-Induced Gamma Ray Spectroscopy Geochemical Logging Tool**
J.E. Galford, J. Quirein, S. Shannon, J. Truax, J. Witkowsky, Halliburton

1400–1630 | 211/212/213

GAS INJECTION AND CO2 PROCESSES

- Please share ideas and follow the discussion in this session on [Twitter](#) using the hashtag **#ATCERMFPM**

Presents recent work regarding reservoir mechanisms and flow specifically pertaining to gas and CO2 processes, including network modeling of porosity and permeability alteration due to dissolution/precipitation, caveats for using 1D CO2 MMP experiments in 2D and 3D simulations, dispersion's role in upscaling heterogeneous reservoir properties, advances in determining trapped gas in foam flow, error in adsorption introduced by porosity upscaling in tight gas, and mechanisms of condensate mobilization during CO2 injection.

Session Chairpersons: **Baosheng Liang**, Chevron
Kola Ayeni, ExxonMobil

- 1400 **124305** **Reactive Pore Network Modeling Dedicated to the Determination of the Petrophysical Properties Changes While Injecting CO2**
L. Algive, S. Bekri, O. Vizika, Institut Français du Pétrole
- 1425 **124803** **Complex Flow and Composition Path in CO2 Injection Schemes from Density Effects in 2 and 3D**
H. Nasrabadi, Texas A&M University-Qatar; A. Firoozabadi, Reservoir Engineering Research Institute; T.K. Ahmed, Texas A&M University-Qatar
- 1450 **124000** **Upscaling of Miscible Floods in Heterogeneous Reservoirs Considering Reservoir Mixing**
G. Garmeh, R.T. Johns, University of Texas at Austin
- 1515 **124157** **Determining Trapped Gas in Foam From CT Images**
R. Kil, Delft University; Q.P. Nguyen, W.R. Rossen, University of Texas at Austin
- 1540 **124478** **Nonlinear Sorption Kinetics and Surface Diffusion Effects on Gas Transport in Low-Permeability Formations**

