

100TH AAPG ANNIVERSARY

ACE 2017

ANNUAL CONVENTION & EXHIBITION

2-5 April 2017 • Houston, TX • George R. Brown Convention Center

with:



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2-5 April 2017

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Theme Descriptions and Subthemes for ACE 2017 Technical Program

Theme 1: Siliciclastics

This theme will showcase the latest concepts and research in siliciclastic deposition, stratigraphy and reservoir characterization. Featured will be the latest technologies and integrative workflows that are adding value in exploration and development.

Subthemes

- Advances in Seismic Stratigraphy and Geomorphology
- Integrated Source to Sink Sedimentary Systems and Basin Scale Stratigraphy
- Innovative Techniques and Workflows for Characterizing Sedimentary Systems
- Continental to Shallow Marine Depositional Systems and Sediments
- Applied Sedimentological Models and Experiments
- **Clastic Diagenesis, Reservoir Quality and Geochemistry**
- Impact of Structure on Sedimentary Systems and Reservoir Properties
- Challenging Basins – Mixed Systems, Seismically-Challenged, etc.
- New Insights From the Sediments of Mexico and Eastern North America

Theme 2: Carbonates and Evaporites

This theme will highlight the latest thinking on carbonate and evaporite depositional systems and diagenetic patterns as well as describe the critical pore networks associated. Application to major oil and gas reservoirs will be stressed.

Subthemes

- Depositional Models for Carbonate and Evaporite Systems
- Carbonate Diagenesis and Paleohydrologic Modeling
- Pore Networks: From Nano-Scale to Touching Vug & Fracture Systems
- Carbonate-Evaporite Stratigraphy – Sub-Milankovitch to High-Resolution Scale
- Giant Carbonate Reservoirs and Their Basins

Theme 3: Geochemistry, Basin Modeling and Petroleum Systems

Geochemistry and basin modeling provide the means to describe the petroleum system along the value chain via the integrated study of hydrocarbon charge through geological time and calibration to present day fluid observations. Methods available in this technical space allow improved understanding of conventional and unconventional plays.

Subthemes

- Basin Modeling and Geochemistry Along the Value Chain
- Risk Quantification Through Petroleum System Analysis
- New Technologies and Workflows in Geochemistry and Basin Modeling
- Hydrocarbon Charge Assessments of Unconventional Settings

Theme 4: Structure, Tectonics and Geomechanics

This theme invites abstract submissions covering all aspects of the discipline. We are particularly interested in presentations showcasing the exceptional and direct business value of structural geology and geomechanics, in terms of increased reserves, increased production and reduced costs and risk. We welcome case studies on lessons learned from failures and problem mitigation. We also seek presentations highlighting new techniques or data sets that illuminate structure.

Subthemes

- Salt Basins: Structure, Tectonics and Stratigraphy
- Structure and Tectonics
- Geomechanics
- Structural Analysis in Fractured and Unconventional Reservoirs
- Business Impact of Structural Geology
- Reservoir Stratigraphy, Architecture and Trapping Configuration

Theme 5: Deepwater

This theme will present the current trends on depositional concepts, stratigraphy, reservoir characterization, modeling and play development associated with deepwater geological units. Contributions that emphasize process oriented sedimentology and stratigraphy, as well as innovative business relevant case studies are of particular interest to this theme.

Subthemes

- Deepwater Deposits: From Classic Models to Paradigm Shifts
- Mixed Carbonate-Siliciclastic Systems
- Contributions From Numerical and Physical Models in the Deepwater World
- Deepwater Sequence/Seismic Stratigraphy and Geomorphology
- New Trends in Deepwater E&P: From Reservoir to Play Scale
- Salt Basins: Structure, Tectonics and Stratigraphy

Theme 6: Unconventional Resources

Unconventional resources have dominated growth in production over the past several years and have radically changed global oil markets. Geoscientific understanding of these plays has also grown exponentially over the past several years. The first three subthemes in this category divide the plays into geographic areas as well as the maturity of the plays. The final subtheme for unconventional addresses the technological advancements that are applicable to all plays.

Subthemes

- Emerging Plays in North America
- International Unconventional Plays
- Established Unconventional Plays
- Advances in Unconventionals

Theme 7: Energy and Environment

This theme will provide an opportunity to showcase an array of issues that concern impacts and resolutions of energy on our environment. Topics for this theme will address best practices in the energy sector to meet growing regulatory pressures, global demands, public perceptions and current environmental challenges and solutions.

Subthemes

- Demand Trends on Oil, Gas, Coal and Global Regions
- Induced Seismicity, Hydro Fracturing and Other Oil Recovery Best Practices
- Environmental Best Practices: Hydrogeology, Geophysics and Forensics
- Reclamation and Greenhouse Gas Sequestration Techniques and Best Practices
- Coastal and Oceanic Environmental Challenges (Deepwater Gulf of Mexico)

Theme 8: Emerging Frontiers and New Technology

This theme will showcase recent exploration results in emerging frontiers, new insights of petroleum systems, as well as innovations and new technologies used to hunt resources and manage risks, and workflows and strategies to narrow temporal and spatial gaps between potential resources and reserves.

Subthemes

- Emerging Frontiers in the East Hemisphere: Arctic Russia to the Far East
- Emerging Frontiers in the West Hemisphere: Alaska to Falkland Islands
- Geosciences for Environmental Management and Protection
- Seep Hunters: Validating Charge in Wildcat Settings for Better Resulting
- Convergence of Exploration With Development and Enhanced Recovery

Theme 9: Geophysics – Integration of the Technology Across the Business

This theme covers the broad spectrum of innovative theory development, advanced geophysical techniques, geoscience integration workflows and case studies for risk and cost management. Thus, integration of advanced geophysical techniques and different aspects in geosciences plays a key role in reducing risk and costs in these challenging economic times.

Subthemes

- Integration of Geophysics With Geology: Theory, Workflow and Case Studies
- Deepwater, Subsalt, Sub-Basalt Exploration: Challenges and Case Studies
- Reservoir Characterization in Clastics, Carbonates and Unconventionals
- 4D Seismic and Practical Microseismic Technologies
- Non-Seismic Methods: Remote Sensing, EM, Gravity and Joint Inversion
- Seismic Stratigraphy: Chronostratigraphy, New Techniques and Case Studies
- Rock Physics and Borehole Geophysics
- Environmental Challenges and Protection

Theme 10: International Regions Highlights

This theme will consist solely of invited papers, which will address developing exploration and production opportunities and trends, as well as technological advances in all of AAPG's International Regions.

Subthemes

- Africa
- Asia Pacific
- Canada
- Europe
- Latin America and Caribbean
- Middle East

Theme 11: Future of Energy Exploration

Industry is again in a downturn with reduced exploration budgets and staffing levels. This theme will look at medium-to long-term forecasting from two perspectives. Subtheme 1 will focus on post-appraisal of previous forecasts and will attempt to establish a realistic level of confidence in our ability to forecast the future. Subtheme 2 seeks to generate discussion that will establish coherent views of the near to medium future. Abstracts from a diverse cross-section of the industry are desired, not only from geoscientists, but also from our colleagues in, for example, the commercial, economic and human relations functions.

Subthemes

- Look-Back on Previous Predictions: What Worked & What Didn't
- The Future of Exploration: External Drivers, Technical Trends and Estimates

Theme 12: SEPM/AAPG Research Symposium

40 years after AAPG Memoir #26 and 30 years after SEPM Special Publication #42: How Seismic and Sequence Stratigraphy Has Advanced.

Deadline for Submissions is 22 September 2016

For more information please contact:

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Special Session: History of Petroleum Geology

AAPG Student Research Poster Sessions

SEPM Student Research Poster Sessions