



# Monday Morning Oral Sessions

\*Denotes presenter other than first author

- Theme 1: Molecules to Marketplace: The Business of Energy
- Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P
- Theme 3: Worldwide E&P: Opportunities in the New Decade
- Theme 4: Challenged Resource Frontiers
- Theme 5: Mudstones and Shales: Unlocking the Promise
- Theme 6: Siliciclastics: Advancing Research to Resource

- Theme 7: Insight into Carbonates and Evaporites
- Theme 8: Breakthroughs: Tectonics, Salt and Basin Analysis
- Theme 9: Integrating New Technology, Geophysics and Subsurface Data
- Theme 10: Energy and Environmental Horizons
- Theme 11: The Next Geo-Generation: Who, What and Where

## (Theme 9) Seismic Reservoir Characterization (AAPG)

General Assembly A

Co-Chairs: R. Ray and D. Reiter

- 8:00 Introductory Remarks
- 8:05 Integrated Reservoir Modeling: Rapid, Repeatable Model Updates for 4-D Reservoir Surveillance: P. L. Wigley, S. Galley, A. Evans, R. Pieterse, J. O'Connell
- 8:25 Seismic Technologies for Unconventional Reservoir Characterization: Wamsutter Field Case Study: R. T. Geetan, B. Hornby, R. Wardhana
- 8:45 Advances in Reservoir Monitoring: Performance Enhancement Using Integrated Microdeformation Technology: M. A. Whitezell
- 9:05 Deepwater Reservoir Characterization Using Transient Well Test Data: H. Tang, F. Zhang, K. Mabe
- 9:25 An Investigation of the Petrophysical and Acoustic Properties of Mass-Transport Sediments Within the Oligocene Frio Formation, South Texas Gulf Coast: O. Ogiesoba, U. Hammes, M. A. Mousavi
- 9:45 Break
- 10:25 Integrated Reservoir Modelling of the Natih E Member at a Salt-Cored Carbonate Dome, Jebel Madar, Oman: J. S. Claringbould, J. Sarg, B. B. Hyden, T. R. Birdsall, J. Embry, G. Casini, S. Homke, J. B. Thurmond, D. W. Hunt
- 10:45 Constraining Uncertainty in Static Reservoir Modeling: A Case Study from Namorado Field, Brazil: J. F. Bueno, R. D. Drummond, A. C. Vidal, E. P. Leite, S. S. Sancevero
- 11:05 4-D Multi-component Seismic Modeling of CO<sub>2</sub> Fluid Substitution in the Redwater Devonian Reef, Alberta, Canada: T. M. Sodagar, D. C. Lawton
- 11:25 Hydrocarbon Exploration Prospect of Girujan Clay Formation of North Assam Shelf: A Case Study of Geocellular Modeling of Lakwa Area: D. Das, M. S. Akhtar, S. K. Roymoulik, H. J. Singh\*

## (Theme 5) From Reservoir to Pores and Volumes I (EMD/AAPG)

General Assembly B

Co-Chairs: R. Miller and R. Loucks

- 8:00 Introductory Remarks
- 8:05 My Source Rock Is Now My Shale-Gas Reservoir — Characterization of Organic-Rich Rocks: Q. R. Passey, K. Bohacs, R. E. Klimentidis, W. L. Esch, S. Sinha
- 8:25 Spectrum of Pore Types in Siliceous Mudstones in Shale-Gas Systems: R. Loucks, S. C. Ruppel, R. M. Reed, U. Hammes

- 8:45 Pore Types in the Barnett and Woodford Gas Shales: Contribution to Understanding Gas Storage and Migration Pathways in Fine-Grained Rocks: R. M. Slatt, N. R. O'Brien
- 9:05 Observations of Pores in the Cretaceous Eagle Ford Shale, South Texas, USA: R. M. Reed, S. Ruppel
- 9:25 Recognition of Mudrock Types from Integration and Upscaling of Geologic, Petrophysical and Geochemical Data Examples from Haynesville, Woodford and Marcellus Shales: J. M. Spaw, V. V. Shchelokov, J. Milovac
- 9:45 Break
- 10:25 Petrographic Recognition of Artificially Induced Microfractures Versus Natural Microfractures in Oil/Gas Shales: P. W. Grover
- 10:45 Innovative Methods for Flow Unit and Pore Structure Analysis in a Tight Gas Reservoir, Montney Formation, NE BC: P. K. Pedersen, C. Clarkson, J. Jensen, O. Derder, M. Freeman
- 11:05 Sequence Stratigraphic Control on Lateral Placement in the Marcellus Shale, Appalachian Basin: D. R. Blood
- 11:25 Gas Generation Reactions in Highly Mature Gas Shales: S. Bernard, B. Horsfield, H. Schulz, A. Schreiber, R. Wirth

## Panel: Key Factors Shaping the Future – Opportunities and Challenges (AAPG)

General Assembly C

Co-Chairs: P. Yilmaz and S. Anjos

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8:00 a.m.–11:50 a.m.

## (Theme 6) Shallow Marine Systems and Processes: A Tribute to Roger Walker and Gerry Middleton I (SEPM)

Room 342

Co-Chairs: J. Bhattacharya, B. Willis and B. Dalrymple

- 8:00 Introductory Remarks
- 8:05 A Process-Based Classification for Marginal Marine Systems: Linking the Ancient and the Modern: B. Ainsworth, B. Vakarelov, R. Nanson
- 8:25 Preservation Potential of Coastal Sediments: R. Boyd, J. R. Suter
- 8:45 Defining the First Order Controls on Delta Stratigraphy: D. Edmonds, D. Mohrig, J. Shaw
- 9:05 Unit Mouth Bars and Their Role in the Construction of River-Dominated Delta Fronts: J. Bhattacharya, S. Ahmed, E. Blankenship, D. Garza, Y. Li, Y. Zhu
- 9:25 Tidal Bars: An Overview: R. W. Dalrymple
- 9:45 Break
- 10:25 A Conceptual Framework for Wave Dominated and Tidally Influenced Shorefaces: S. E. Dashtgard, J. A. MacEachern, S. E. Frey, M. Gingras
- 10:45 Borneo — Where Models Go to Die: J. Lambiase

- 11:05 A Reevaluation of Tidally Deposited “Mud Drapes”: Criteria for Recognizing Dynamically Deposited Fluid-Mud Layers: D. A. Mackay, R. Dalrymple
- 11:25 Implications of Flume Studies for Shallow Marine Mud Deposition and the Stratigraphic Record: J. Schiebe

## (Theme 8) New Concepts and Methods in Integrated Basin Analysis & Geodynamics (AAPG/SEPM)

Room 351

Co-Chairs: A. Danforth, B. Johnson and A. Madof

- 8:00 Introductory Remarks
- 8:05 Rapid Subsidence at Outer Continental Margins and SDR Packages During the Rift-Drift Transition: The Roles of Landward-Dipping Faults and “Magmatic Detachment”: J. Pindell, T. Heyn
- 8:25 The Importance of Understanding Lithology and Depositional Environment — Rosebank Field, West of Shetlands, UKCS: S. Stonard, L. Duncan, A. Jarvie
- 8:45 Whole Lithospheric Folding as a Mechanism of Basin Formation and Tectonic Implications for Gondwana Evolution: Evidence from the Palmyride Trough, Syria: B. Wood
- 9:05 A Tale of Two Glaciations: P. Spaak, M. I. Ross\*
- 9:25 A Reconstruction of Global Sediment Fluxes Since the Late Jurassic: Fact, Fiction or Wishful Thinking?: P. Markwick, D. Campanile, A. Galsworthy, L. Raynham, M. Harland, K. Benny, R. Bailiff, K. Bonne, L. Hagan, D. Eue, N. Wrobel
- 9:45 Break
- 10:25 Migration of Dynamic Subsidence Across the Late Cretaceous U.S. Western Interior Basin in Response to Farallon Plate Subduction: D. Nummedal, S. Liu, L. Liu
- 10:45 Control of Thrust-Belt Transverse Zones on Sedimentation Patterns Revisited: Implications for Exploration Strategies in Fold-Thrust Belts and Their Adjacent Foreland Basins: J. L. Aschoff, P. M. Valora, B. D. Trudgill
- 11:05 High Resolution Magnetostratigraphy as a Tool for Investigating Basin Evolution: Example from Upper Cretaceous (Santonian-Campanian) Marine Strata of Western Canada: A. J. Mumpy, O. Catuneanu, J. Lerbekmo, V. Kravchinsky
- 11:25 Geodynamics of Oil Bearing Sedimentary Basins in Argentina: S. Barredo, L. Stinco

## (Theme 5) Global Active and Emerging Plays (EMD/AAPG)

Room 360

Co-Chair: J. Breyer and A. Szurkowska

- 8:00 Introductory Remarks



- 8:05 **Power and Limitations of X-ray Fluorescence from Cuttings, a Test in the Utica and Lorraine Shales from Quebec:** J. Chatellier, E. Quartero, M. Urban, M. Molgat, A. Deconinck, P. Francus
- 8:25 **The Geochemistry of Montney and Lower Doig Tight Gas Reservoir, Northeastern British Columbia, Western Canada:** E. I. Egbobawaye, M. Gingras, J. Zonneveld
- 8:45 **Unconventional (Shale Oil or Gas) Petroleum Systems of the Eastern Canadian Paleozoic Sedimentary Basins: Effects of Organic Facies, Organic-Mineral Network, and Maturation:** P. K. Mukhopadhyay
- 9:05 **Petroleum Source Rock Assessment of the Middle Oligocene-Lower Miocene Coal Bearing Deltaic Sediments in the NW Turkey:** S. Sen
- 9:25 **Silurian Shale of the Baltic Syncline: A Significant European Shale Gas Prospect:** A. Owoyemi
- 9:45 **Break**
- 10:25 **Upper Ordovician-Lower Silurian Shale Gas Reservoirs in Southern Sichuan Basin, China:** X. Li, C. Zou, Z. Qiu, J. Li, G. Chen, D. Dong, L. Wang, S. Wang, Z. Lu, S. Wang, K. Cheng
- 10:45 **Carboniferous Sediments in Germany: Palaeogeographic, Sedimentological, and Diagenetic Control on Shale Gas Prospectivity and Production Issues:** H. Schulz, D. Kerschke, A. Hartwig, S. Könitzer, M. Mendez, R. diPrimio, R. Littke, B. Horsfield
- 11:05 **Remarks from the Recent Recognition of Oil & Gas Potential in Poland:** M. M. Zywiecki, M. P. Lewis
- 11:25 **Origin and Thermal Maturity of Cretaceous Shales from the Orange Basin: Insights from Inorganic Geochemistry:** A. Akinlua
- (Theme 3) E&P in the Middle East (AAPG)**  
Room 361  
Co-Chairs: R. Hamilton and A. Fraser  
8:00 **Introductory Remarks**
- 8:05 **Influence of Preexisting Basement Templates on the Deformation and Hydrocarbon Systems of the Zagros Simply Folded Belt:** C. M. Burberry
- 8:25 **Hydrocarbons in the Middle Miocene Jeribe Formation, Dyala, NE Iraq:** T. K. Al-Ameri, J. Zumberge, Z. M. Markarian
- 8:45 **Foreland Basin Evolution of the Northeastern Arabian Margin, Kurdistan Region, Iraq:** B. A. Al-Qayim
- 9:05 **Modeling Hydrocarbon Generations of the Basrah Oil Fields, Southern Iraq; Based on Petromod with Palynofacies Evidences:** T. K. Al-Ameri, M. A. Jafar, J. Pitman
- 9:25 **Reservoir Characterization of the Paleocene/Eocene First Eocene Dolomite Reservoir at Wafra Field, Partitioned Zone (Saudi Arabia and Kuwait):** S. Bachtel, N. Toomey, D. A. Pollitt, A. Saller, M. Playton, V. Heesakkers, D. Dull, P. Montgomery, B. Archuleta, E. Anthonissen, W. Meddaugh
- 9:45 **Break**
- 10:25 **Sequence Stratigraphic Framework, Paleogeography, and Exploration Potential of the Early Jurassic Marrat Formation, Saudi Arabia:** D. Z. Tang, P. Lawrence, A. M. Bakhiet, A. E. Gregory, W. Tan, A. Ahmed, B. Macurda
- 10:45 **Beni Suef Basin – The Key for Exploration Future Success in Upper Egypt:** H. Zahran, K. Abu Elyazid, M. El-Aswany
- (Theme 7) Carbonate Reservoirs: Case Studies & Techniques for Characterization I (SEPM/AAPG)**  
Room 370  
Co-Chairs: G. P. Eberli, S. B. Gaswirth and S. Bachtel  
8:00 **Introductory Remarks**  
8:05 **Reservoir and Production Characterization in a Steep-Sided Upper Paleozoic Isolated Carbonate Platform Reservoir, Karachaganak Field, Kazakhstan:** D. A. Katz, T. Playton, J. A. Bellian, P. M. Harris, C. Harrison, A. Maharaja
- 8:25 **Sequence Stratigraphic Framework, Trace Element and Stable Isotope Geochemistry of the Late Ordovician Red River Formation, Williston Basin, North Dakota:** A. Husinec, J. F. Colony, B. E. Rendall, K. Kornecki, K. N. Hoskinson, K. L. Marvinney
- 8:45 **Sequence Stratigraphy of the First Eocene Reservoir (Paleocene-Eocene) at Wafra Field, Partitioned Zone, Kuwait and Saudi Arabia: The Use of Stacking Patterns to Define the Stratigraphic Framework of a Low-Angle Carbonate Ramp:** N. Toomey, S. Bachtel, D. Dull, D. A. Pollitt, A. Saller, E. Anthonissen
- 9:05 **Facies Analysis and Sequence Stratigraphy of Tertiary Carbonates: Integrating Subsurface and Outcrop Data from the Cepu Block and Rajamandala Outcrops, Java, Indonesia:** R. P. Sekti, F. Hakiki, C. J. Strohmenger, A. N. Derewetzy, B. Sapiie, D. Nugroho, S. Fullmer, T. Simo
- 9:25 **Deepwater Resedimented Carbonate Exploration Play Types: Controls and Models:** P. Winefield, P. Burgess, M. Minzoni\*, B. Pierson, T. Playton, X. Janson
- 9:45 **Break**
- 10:25 **Anhydrite Distribution Typing from Resistivity-Image and Open-Hole Logs in the 1st Eocene Reservoir, Wafra Field:** M. Hruska, S. Bachtel, B. Archuleta, M. Skalinski
- 10:45 **Carbonate Rock Characterization and Modelling for Improved Properties Predictability: Capillary Pressure and Permeability in Multimodal Rocks:** I. Hulea, C. Nicholls
- 11:05 **Quantification of Heterogeneity in Carbonate Reservoirs; Application to Geological and Petrophysical Property Characterization:** P. Fitch, S. Davies, M. Lovell, T. Pritchard, C. Sirju
- 11:25 **Carbonate Rock Typing – Modelling Heterogeneity. A Case Study Comparison of Whole Core and Core Plug Permeability Data:** C. Nicholls, I. Hulea, R. Forkner

# Monday Afternoon Oral Sessions

\*Denotes presenter other than first author

Theme 1: Molecules to Marketplace: The Business of Energy  
Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P  
Theme 3: Worldwide E&P: Opportunities in the New Decade  
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## (Theme 3) E&P in the Americas (AAPG)

General Assembly A

Co-Chairs: B. Erlich and F. Sanchez-Ferrer

1:15 **Introductory Remarks**

1:20 **Mars Life Cycle Field Development – Maximizing Recovery from a Deepwater Giant:** M. Harris, K. Lambert, D. Newberry

1:40 **TBD**

2:00 **Fluid Properties Indicated by Natural Gas Isotopes in Gulf of Mexico:** X. Xia, D. M. Jarvie, Y. Tang

2:20 **Role of Caribbean Arc Collision on the Development of the SE Gulf of Mexico, Florida and Bahamas:** J. Pindell

2:40 **Control of Oblique Collision, Transform Faulting and Uplift on Cenozoic Basin Development Along the Caribbean-South America Plate Boundary:** X. Xie

3:00 **Break**

3:40 **New Explorations Tramps in the Espino Graben. Eastern Venezuela Basin:** Y. A. Barrios, N. Baptista, G. Gonzales

4:00 **Geological Setting and Petroleum Potential of the Paleozoic Hudson Platform, Northern Canada:** D. Lavoie, N. Pinet, S. Zhang, M. Duchesne, V. Brake, J. Dietrich, E. Asselin, D. Armstrong, M. Nicolas, P. Lajeunesse, J. Roger, G. Huot-Vézina

4:20 **Gross Depositional Environment Offshore Nova Scotia:** H. Wilson, M. Luheshi, D. Roberts

4:40 **The Importance of Upwelling Along the Californian Margin with Links to Sequence Stratigraphy and Petroleum Significance:** M. A. Reynald, W. L. Prendergast, A. Davies, A. C. Messer



### (Theme 5) From Reservoir to Pores and Volumes II (EMD/AAPG)

General Assembly B

Co-Chairs: S. C. Ruppel and A. Pepper

- 1:15 Introductory Remarks
- 1:20 Detailed Mineralogical Characterization of the Upper Montney Fine-Grained 'Shale' Interval Using Micro-CT and Electron Microprobe Analyses: T. Playter, M. Gingras, J. Zonneveld
- 1:40 Kinetics of the Opal-CT to Quartz Phase Transition Control Diagenetic Traps in Siliceous Shale Source Rock from the San Joaquin Basin and Hokkaido: D. Dralus, K. E. Peters, M. D. Lewan, O. Schenk, M. Herron, K. Tsuchida
- 2:00 Integrated Sedimentary, Geochemical, and Geomechanical Evaluation of the Mancos Shale, Uinta Basin, Utah: L. P. Birgenheier, C. Johnson, A. Kennedy, B. Horton, J. McLennan
- 2:20 Development of Mechanically Layered Haynesville-Bossier Shale-Gas Play: A. I. Younes, H. Moore, N. Suumeyer, M. Sandstrom, P. R. Smith
- 2:40 Estimation of Gas Volumes in Shales Gas: Kinetic and Isotope Modeling for Methane and Ethane Generation: F. Behar, D. M. Jarvie\*, L. Mazeas, S. Roy
- 3:00 Break
- 3:40 Organic Matter, Kerogen, Bitumen, Petroleum, Generation, Sorption, Absorption, Adsorption, Expulsion and Migration: What's the Difference and Why Does It Matter in Unconventional Resource Assessment?: A. Pepper
- 4:00 Cyclic Nature of Intracratonic Versus Passive Margin Mudstone Systems — A Reservoir Perspective: S. Egenhoff, N. Fishman, S. Paxton
- 4:20 Hydrocarbon Phase Prediction in Unconventional Resource Plays Using Geochemical and PVT Data: J. Reed, K. Ferworn, S. Brown, J. Zumberge
- 4:40 A Quick-Look Determination of Oil-in-Place in Oil Shale Resource Plays: M. W. Downey, J. Garvin, R. C. Lagomarsino, D. F. Nicklin

### Forum: Discovery Thinking (AAPG/DPA)

General Assembly C

Co-Chairs: C. Sternbach and E. Dolly

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- 1:15 Introductory Remarks
- 1:20 Jack and Other Discoveries Open the Lower Tertiary Trend in the Gulf of Mexico: J. Cearley
- 2:00 Tamar — The Opening of a Frontier Basin in the Eastern Mediterranean: S. Cunningham
- 2:40 Hidden Beneath Desert Sands — The Discovery of the Barmer Basin in Rajasthan and Its Giant Oil Fields: S. Burley
- 3:20 Break
- 3:40 Exploration of the Tano Basin & Discovery of the Jubilee Field, Ghana: A New Deepwater Game-Changing Hydrocarbon Play in the Transform Margin of West Africa: P. Dailly
- 4:20 Northern Mozambique True Wildcat Exploration in East Africa: C. Law
- 5:00 Conclusion

### Michel T. Halbouty Lecture: The Next Era of Exploration (AAPG)

General Assembly C

Chair: R. Merrill

See Summary Page 7

Speaker: David Lawrence

5:10 p.m.–6:00 p.m.

### (Theme 6) Shallow Marine Systems and Processes: A Tribute to Roger Walker and Gerry Middleton II (SEPM)

Room 342

Co-Chairs: J. Bhattacharya, D. Edmonds and J. Garrison

- 1:15 Introductory Remarks
- 1:20 Tidal Deposits of the Campanian Western Interior Seaway: R. Steel, P. Plink-Bjorklund, J. L. Aschoff
- 1:40 Forced-Regressive Tidal Flats: Response to Falling Sea Level in Tide-Dominated Settings: P. R. Desjardins, L. A. Buatois, B. R. Pratt, M. Mángano
- 2:00 Channelization and Stratigraphic Architecture of a Tide-Dominated, High Tidal Resonance Basin Succession: Upper Eocene Temple Member of the Qasr Al Sagha Formation, Egypt: B. Vakarelov, B. Ainsworth
- 2:20 Bio-Pipeline Networks in Low Permeability Gas Charged Bioturbated Reservoirs: G. Pemberton, M. Gingras
- 2:40 High-Resolution Mapping of Depositional Trends over the Vulcan Structure and Bow Island Arch: Cardium Formation (Turonian-Coniacian), Southern Alberta: J. Shank, G. Plint
- 3:00 Break
- 3:40 The Upper Cretaceous of the Bight Basin, Australia: A Large Deltaic System in a Greenhouse World: P. J. McCabe, J. M. Totterdell
- 4:00 Sediment Dynamics of the Brazos River, Texas: Storage in the Lower River, Transport to the Shelf: J. Carlin, T. M. Dellapenna
- 4:20 Downstream Controlled Avulsion and Local Base Level in Submarine Fans: The Role of Hydraulic Choke and Backwater—A Scaling Analysis: D. Hoyal, J. J. Fedele, B. Sheets, K. Strom
- 4:40 3-D Architecture of a Wave-Influenced Parasequence in the Ferron "Notom" Delta, Capital Reef Utah, USA: Implications for Delta Asymmetry Models: W. Li, J. Bhattacharya

### (Theme 3) Worldwide E&P: Arctic (AAPG)

Room 351

Co-Chairs: R. Scheidemann and S. Fraser

- 1:15 Introductory Remarks
- 1:20 The Acquisition of Deep, Long Offset Seismic Data Provides New Information on the Play Fairways on the NE Greenland Margin: R. Whittaker, M. Dinkelman, J. Granath
- 1:40 Stratigraphy of the Eagle Plain Basin, Northern Yukon Territory: Reservoir Facies Distribution and New Play Opportunities in Middle to Upper Cretaceous Strata: K. Jackson, P. Pedersen, L. S. Lane
- 2:00 Beaufort-Mackenzie Basin Offshore Shelf and Slope: Vast, Mostly Untested, Potential of Oligocene and Younger Sequences: P. A. Emmet, N. Kumar, J. A. Helwig, M. Dinkelman
- 2:20 Unlocking the Exploration Potential of the U.S. Beaufort Sea Continental Shelf, Offshore Arctic Alaska: S. Phelps, J. L. Shepard, R. Foster, J. Lambrecht, G. Jaeger, T. X. Homza, M. Zechmeister, D. Collins, M. Roffall, M. Newell, C. Teff, R. Scheidemann

- 2:40 Unlocking the Exploration Potential of the U.S. Chukchi Sea Continental Shelf, Offshore Arctic Alaska: J. L. Shepard, S. Phelps, R. Scheidemann, R. Foster, M. Newell, M. Roffall, C. Teff, C. Minerio

### (Theme 10) Astrogeology (AAPG)

Room 351

Co-Chairs: W. A. Ambrose and H. Schmitt

- 3:40 Introductory Remarks
- 3:45 Lunar Helium-3 Value Chain: Investment and Funding: D. Beike
- 4:05 The Near Earth Asteroids as the First Step on the Way to Mars: B. L. Cutright
- 4:25 Revisiting the Apollo Lunar Surface Geophysical Experiments: S. Nagihara, Y. Nakamura, L. Lewis
- 4:45 Origin of Oil and Hydrocarbon Gases Within Our Solar System — Biogenic and Abiogenic?: P. K. Mukhopadhyay, D. J. Mossman, J. M. Ehrman

### (Theme 8) Global Salt Tectonics: Models, Outcrops and Case Studies (AAPG)

Room 360

Co-Chairs: C. Fiduk and T. E. Hearon

- 1:15 Introductory Remarks
- 1:20 Stress Orientation Changes Around Evaporites in the Nile Delta: M. Tingay, P. Bentham, A. De Feyter, A. Kellner
- 1:40 Three-Dimensional Structural Evolution of a Salt-Cored, Domed, Reactivated Fault Complex, Jebel Madar, Oman: J. S. Claringbould, J. Sarg, B. B. Hyden, B. D. Trudgill
- 2:00 Geomechanical Modeling of Stresses Adjacent to Salt Bodies: Poro-Elasto-Plasticity and Coupled Overpressures: M. A. Nikolinakou, G. Luo, M. Hudec, P. B. Flemings
- 2:20 Geomechanical Modeling of Stresses Adjacent to Salt Bodies: 1. Uncoupled Models: G. Luo, M. A. Nikolinakou, P. B. Flemings, M. Hudec
- 2:40 Controls on Alluvial Architecture During Passive Salt Diapirism, Chinle Formation, Paradox Basin, Utah: A. J. Hartley, L. Evenstar
- 3:00 Break
- 3:40 Vertical and Lateral Segmentation of an Evaporite-Detached Normal Fault Array: The Halten Terrace, Offshore Mid-Norway: P. Wilson, G. Elliott, R. L. Gawthorpe, C. Jackson, L. Michelsen, I. Sharp
- 4:00 Compression Salt Tectonics and Synkinematic Strata Record in the Western Kuqa Foreland Basin, Southern Tian Shan: X. Wang, S. Li, H. Xie, Z. Wang
- 4:20 Interaction of Neogene Salt and Magatics at the Jordan Rift Valley: N. Inbar, A. Flexer\*
- 4:40 Sub-salt Petroleum Potential of the Neoproterozoic Adelaide Rift, South Australia: S. Menpes

### (Theme 9) Seismic Structural Interpretation (AAPG)

Room 361

Co-Chairs: J. Jordan and S. L. Getz

- 1:15 Introductory Remarks
- 1:20 Onshore U.S. Depth Imaging and Velocity Model Building: M. P. Brown, J. H. Higginbotham, C. Macesanu, O. E. Ramirez



- 1:40 **Geological Principles of Imaging Permian Salt Bodies in the North Sea and Irish Sea:** G. H. Ward
- 2:00 **Reducing Structural Uncertainty at Tahiti Field Using TTI WAZ Imaging:** A. M. Swanston, M. D. Mathias, C. A. Barker\*
- 2:20 **From Dry-Hole to Discovery and Sanction-Ready Development in Less than Three Years: OBS-WAZ Seismic Enables West Boreas and South Deimos Discoveries and Fast-Paced Big Cat Development:** R. F. Sloan, F. Diegel, M. Mc Rae, A. Van den Beukel
- 2:40 **Deep Cardamom Discovery Enabled by Multi-azimuth Seismic and Anisotropic Imaging:** B. Hewett, D. Garner, J. Douma, M. Kohli, D. Johnson
- 3:00 **Break**
- 3:40 **An Integrated Geomechanical Approach for Development of the Mars Field in the Gulf of Mexico:** J. L. Weiland, M. Cuttitta, A. W. Chan\*, K. Hindriks
- 4:00 **Optimized Trishear Modeling of Incomplete Seismic Data:** J. P. Brandenburg, F. O. Alpak, J. Solum, S. Naruk
- 4:20 **The Pony Discovery, Green Canyon Block 468, U.S. Gulf of Mexico: Structural Uncertainty Analysis:** R. Mann, H. Zollinger\*, S. Checkles

- 4:40 **Subduction-to-Strike-Slip Transition in the Southeastern Caribbean Imaged Using Deeply Penetrating Seismic Reflection Lines and Tomography:** T. Alvarez, C. Vargas, P. Mann, A. Escalona, J. Latchman

**(Theme 7) Seismic Interpretation of Carbonate Systems (SEPM)**

Room 370

Co-Chairs: K. Lamb-Wozniak and T. Simo

- 1:15 **Introductory Remarks**
- 1:20 **Bump to Prospect: An Empirical Approach to the Recognition and Characterization of Isolated Carbonate Buildups on Seismic Data:** P. Burgess, P. Winefield
- 1:40 **Current Impact on Carbonate Platform Growth and Drowning:** C. Betzler, C. Hübscher, J. Fuerstenau, T. Luedmann, S. Lindhorst, A. W. Droxler, A. Paul, J. Reijmer
- 2:00 **Seismic Geomorphology of a Tertiary-Aged Isolated Carbonate Platform System, Browse Basin, Northwest Shelf of Australia: The Spatial and Temporal Evolution of Carbonate Platform Environments I – The Lower Section:** H. W. Posamentier, S. Bachtel, T. P. Gerber, J. Lomask
- 2:20 **Seismic Geomorphology of a Tertiary-Aged Isolated Carbonate Platform System, Browse Basin, Northwest Shelf of Australia: The Spatial and Temporal Evolution of Carbonate Platform Environments II – The Upper Section:** S. Bachtel, H. W. Posamentier, T. P. Gerber

- 2:40 **Eocene-to-Miocene Karst Seismic-Sag Structural Systems, Southeastern Florida Platform:** K. J. Cunningham, C. Walker, J. N. King

**(Theme 7) New Geologic Perspectives on the Permian Reef Complex, West Texas (SEPM)**

Room 370

Co-Chairs: C. Kerans and J. A. Bellian

- 3:40 **Introductory Remarks**
- 3:45 **Three-Dimensional Geometry of Platform-Scale Fracture Systems, Guadalupe Mountains, New Mexico, USA:** P. G. Resor, D. W. Hunt, E. Flodin
- 4:05 **Stepwise Termination of the Permian Reef Complex, Permian Basin: Implications for Structural and Depositional Patterns of Saline Giants:** C. Kerans, C. Zahm, J. El-Azzi, N. Jones
- 4:25 **Quantified Facies Geometry Within a Mixed Carbonate-Clastic Reef-Rimmed Shelf: High-Resolution Sequence Stratigraphic Architecture of the Yates Formation in Slaughter Canyon, New Mexico:** C. Harman, C. Kerans
- 4:45 **A Digital Outcrop Analog for Upper Paleozoic Carbonate Slope Reservoirs:** J. A. Bellian, T. Playton, J. Kenter, P. M. Harris, J. Ellis

MONDAY AFTERNOON ORALS

# Monday All-day Poster Sessions

Presenters in their Booths 9:30 a.m.–10:30 a.m. and 3:00 p.m.–4:00 p.m. /// \*Denotes presenter other than first author

- Theme 1: Molecules to Marketplace: The Business of Energy  
 Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P  
 Theme 3: Worldwide E&P: Opportunities in the New Decade  
 Theme 4: Challenged Resource Frontiers  
 Theme 5: Mudstones and Shales: Unlocking the Promise  
 Theme 6: Siliciclastics: Advancing Research to Resource

- Theme 7: Insight into Carbonates and Evaporites  
 Theme 8: Breakthroughs: Tectonics, Salt and Basin Analysis  
 Theme 9: Integrating New Technology, Geophysics and Subsurface Data  
 Theme 10: Energy and Environmental Horizons  
 Theme 11: The Next Geo-Generation: Who, What and Where

**(Theme 11) AAPG Student Research Poster Session**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: S. Waters and W. Hottman

- **Crustal Structure, Sequence Stratigraphy and Petroleum Potential of the Western Colombian Basin Adjacent to Costa Rica and Nicaragua:** M. I. Prieto, H. Van Avendonk, P. Mann, S. Holbrook, D. Lizarralde, P. Denyer
- **Petrophysical Characterization of Bioturbated Facies from the Upper Jurassic Ula Formation, Norwegian North Sea, Europe:** G. Baniak, M. Gingras, B. Burns, G. Pemberton
- **Flexurally Driven Subsidence History of the Llanos Foreland Basin of Colombia: Implications for Hydrocarbon Exploration:** H. Campos, P. Mann, A. Escalona, N. Cardozo
- **Rift Basin-Fill Architecture of Fluvial-Lacustrine Lower Permian Lucaogou and Hongyanchi Low-Order Cycles, Southern Bogda Mountains, NW China:** B. Jeffrey, W. Yang, Q. Feng, Y. Liu

- **Non-Volcanic Rift Margin Evolution: The Temporal and Spatial Relationships Between Uplift, Extension and Erosion, Gulf of Suez and Northern Red Sea, Egypt:** J. Hammerstein, K. McClay
- **Isolated, Top-Truncated, Wave-Dominated Lowstand Delta Deposits and the Potential for Stratigraphic Entrapment Within the Frontier Formation, Northeast Bighorn Basin, Wyoming:** A. Hutsky, C. Clark, C. Fielding
- **Sequence to Architectural Element Framework of the Tuscaloosa Massive Sandstone, Eastern Gulf of Mexico Province, USA:** K. S. Woolf, L. Wood
- **Stratigraphy, Diagenesis and Fracture Distribution of the Three Forks Formation, Williston Basin:** V. V. Nekhorosheva, A. A. Gantyno, S. Sonnenberg, J. Sarg
- **Clearwater Formation, Cold Lake Oil Sands Deposit: Estuarine Incised Valley Complex?:** C. Currie, M. Gingras
- **Lower Magdalena Basin, Colombia: A Forearc Basin Formed Above a Zone of Active, Shallow Subduction:** R. D. Bernal-Olaya, P. Mann, C. Vargas

- **A Comparison of the Geometries of Two Plio-Pleistocene Shelf Margin Delta Sequences, Vermilion South Addition and Northeast Garden Banks, Gulf of Mexico:** P. Lee, J. Bhattacharya, S. Rubio
- **Sedimentary Characteristics of Fine-Grained Resurge Facies, Wetumpka Marine Impact Structure, Central Alabama:** J. K. Markin, D. T. King
- **Subsurface Facies Analysis and Correlations for the Pennsylvanian-Permian, Western Nebraska, U.S. Midcontinent:** C. Gilleland, T. D. Frank
- **Structural Framework of the Corsair and Clement-Tomas Growth Fault Systems in the Texas Continental Shelf, Gulf of Mexico:** O. A. Ajiboye, S. Nagihara
- **Syn-rift Sedimentology and Stratigraphic Development of Footwall-Sourced Conglomeratic Depositional Systems; South Hadahid Block, Suez Rift, Egypt:** J. P. de Boer, R. L. Gawthorpe, I. Sharp, C. Jackson, W. Helland-Hansen, P. Whipp

MONDAY ALL-DAY POSTERS



**(Theme 11) SEPM Student Awards Poster Session**  
Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: H. E. Harper and T. R. Carr

- **Primary Controls on Organic Carbon Content in UK Upper Mississippian Gas Shales:** S. Könitzer, S. Davies, M. Stephenson, M. Leng, S. Gabbott, L. Angiolini, J. Macquaker, C. Vane, D. Millward, I. A. Kane
- **Geometry of Upper Jurassic Sponge/Microbial Bioherms: 3-D Georadar Analysis and Modelling (Swabian Alb, SW-Germany):** M. Boldt, T. Aigner
- **Facies and Porosity-Permeability Relationships in Red River A and B Intervals, North Dakota:** J. F. Colony, B. E. Rendall, A. Husinec
- **Tidal and Deltaic Influence in Storm-Dominated Prograding Shoreline Deposits of Pictured Cliffs Sandstone, Northern San Juan Basin – Implication Toward Reservoir Characterization:** S. Yuvaraj, J. E. Evans
- **Significance of the Tide-Influenced Facies Distribution Within the Shelf-Margin Deposits, Kookfontein Formation, South Africa:** M. Bubba, P. Plink-Bjorklund
- **Assessment of Porosity and Diagenesis in the Lower Cretaceous Aptian-Albian Sligo Formation, South Texas:** E. Aina, B. L. Kirkland
- **Neochronological Trends at the Fluvial-Tidal Transition of the Columbia River Delta, Northwest USA:** R. Dicks, S. E. Dashtgard, J. R. Suter, M. Gingras
- **Local and Regional Sources for Upper Permian-Lowermost Triassic Fluvial-Lacustrine Fills in the Tarlong-Taodonggou Half Graben, Southern Bogda Mountains, NW China:** W. Guan, W. Yang, Y. Liu, Q. Feng
- **Vicissitudes of the Eocene, Radical Overturning of Middle Eocene Planktonic Biostratigraphy:** S. Hilding-Kronforst, B. S. Wade
- **Basalt Grain Distribution in the Cimarron River and Its Tributaries, Cimarron County, Oklahoma:** S. T. Anderson, A. R. Simms
- **The Black Death of a Carbonate Ramp: Poisoning of the Phosphoria Platform and Its Relevance to Source Rock Depositional Models:** C. F. Cassle, S. Egenhoff
- **Importance of Dimorphosiphon and Other Skeleton-Building Green Algae for Facies and Biostratigraphic Studies of the Late Ordovician Red River Formation, Williston Basin:** B. E. Rendall, J. F. Colony, A. Husinec
- **Petrographic Comparison and Contrast of Fluvial and Deltaic Sandstones, Upper Pennsylvanian Oread Cyclothem, NE Oklahoma:** J. Obrist, W. Yang
- **Geochemistry and Microfacies of Lower Aptian Organic Rich Beds Within the Arcillolitas Abigarradas Member of Paja Formation (Villa de Leiva, Colombia): Its Relationship to Oceanic Anoxic Global Events:** T. Gaona-Narvaez, F. Maurrasse, F. Etayo-Serna, C. Rebenack
- **Stratigraphy, Sedimentology and Heterogeneity of Carbonates Facies and Its Relation with Global and Local Sea Level Fluctuations in a Miocene to Pleistocene Carbonate Platform in the Caribbean, Isla de Mona, Puerto Rico:** A. M. Rodriguez-Delgado, L. Gonzalez, W. Ramirez

**(Theme 2) Deepwater Africa E&P (AAPG/SEPM)**  
Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: A. Donovan and A. Fildani

- **Constraints on Deepwater Sedimentation in the Karoo Basin, South Africa, from U-Pb Geochronology of Ash Interbeds:** A. Weislogel, R. Brunt, S. Flint, A. Fildani, J. Rothfuss
- **The Gambian Basin: Play Analysis and Hydrocarbon Potential:** M. Uzcátegui
- **The Hydrocarbon Potential of Keta Basin, Deepwater Ghana:** C. Abu, M. Francis, N. Herbst, G. Milne, C. Rodriguez
- **Cretaceous Deepwater (Base of Slope and Basinfloor) Depositional Architecture and Evolution in the Rio Muni Basin, West Africa:** Z. Xu, L. Fullang, G. Fan, D. Shao
- **Development of Architecture Elements in Deepwater Depositional System from Canyon to Distal Lobe: A Comparison Example:** G. Fan, G. Yao, L. Fullang, H. Sun, D. Shao, Z. Xu
- **Borehole Images as a Vital Tool to Constrain the Architecture of a Channelized Slope System, Karoo Basin, South Africa:** Y. Kolenberg, S. M. Luthi\*, E. Morris, D. Hodgson, S. Flint, Y. Toorenburg

**(Theme 2) Deepwater E&P: Gulf of Mexico (AAPG/SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: K. M. Campion and M. Casey

- **The K/Pg Boundary Chicxulub Impact Deposit in the Deepwater Gulf of Mexico: Implications for Regional Stratigraphy and the “MCU”:** R. A. Denne, E. D. Scott, T. S. Buddin, S. D. Carlson, D. P. Eickhoff, R. Hill, J. M. Spaw
- **Biostratigraphic, Lithologic, and Seismic Characteristics of the K/Pg Boundary Chicxulub Impact Deposit, Deepwater Gulf of Mexico:** R. A. Denne, E. D. Scott, T. S. Buddin, S. D. Carlson, D. P. Eickhoff, R. Hill, J. M. Spaw
- **Identifying Exploration Fairways in the Gulf of Mexico: Deepwater Tuscaloosa/Woodbine Play:** B. W. Horn
- **Sediment Redistribution in the Gulf of Mexico Resulting from the K/Pg Boundary Chicxulub Impact and the Resulting Influence on Wilcox Formation Sedimentation Patterns:** E. D. Scott, R. A. Denne, J. Kaiser, T. S. Buddin, S. D. Carlson, D. P. Eickhoff, R. Hill, J. M. Spaw
- **An Integrated Approach to Characterization and Modeling of the Jackfork Group at the Baumgartner Quarry Area, Western Arkansas, and Its Implications to Deepwater Exploration and Production:** F. Zou, R. M. Slatt
- **Methodological Design for the Use of Synthetic Aperture Radar Imagery to Monitor Seepage Activity Behavior in the Gulf of Mexico:** E. C. Pedroso, P. Genovez, P. Bruno, G. Torres, L. P. Martins
- **Exploring the Hydrocarbon Potential Offshore Western Florida:** G. N. Scaife, G. Scaife, R. Miller
- **The Deep Water Drilling Tolerance Window: Walking a Fine Line, Case Histories from Gulf of Mexico:** S. S. Shaker
- **The Discovery and Exploration Potential of the Eocene-Miocene Shelf Margin Deltas in the Baiyun Sag of Pearl River Mouth Basin, South China Sea:** Q. Xu, Z. Weilin, Y. Wang, M. Lv, K. Zhong, D. Li

**(Theme 2) Emerging Deepwater Plays Around the World (AAPG/SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: K. M. Campion and M. Casey

- **Experimental Study on Bedforms Created by Density Currents:** J. J. Fedele, D. Hoyal, K. Guentzel, J. Draper
- **Deepwater (Slope and Basinfloor) Depositional Architecture and Evolution of the Northeast Bengal Fan (Miocene-Pleistocene) in Offshore Northwest Myanmar:** Z. Xu, L. Fullang, G. Fan, S. Hui
- **Facies, Characteristics, and Depositional Model of the Deepwater Fan Complex in the Zujiang Formation, Baiyun Sag, Pearl River Mouth Basin, South China Sea:** W. Li, Y. Wang
- **Integrated Sand Source Directions, Provenance and Stratigraphy in the Møre and Vøring Basins:** P. Wellsbury, K. Wien, M. Urdal, J. Ford, C. Gill, G. Spence
- **Aggradational Slope Channel Complexes: An Important Reservoir Element in Pliocene in the Rakhine Basin, Offshore Myanmar:** H. Sun, J. Yang
- **Big Deepwater Channel: One of Important Sediment Supply Pathways in Northern South China Sea:** Y. Shengqiang, Z. Zongju, J. Hua, L. Yu'e
- **Facies Characterization Using Multi-resolution Graphical Clustering Techniques on the Pony Discovery (GOM) and MTJDA Fields (Malay Basin):** S. Carney, G. Perov, K. Kemp, N. Shin Ni Chai, R. Beaubouef, C. R. Handford, K. Grush
- **Petrophysics and Rock Physics Modeling to Improve Seismic Reservoir Characterization – Case Study of Lower Hackberry Sandstone:** R. Y. Hu, T. Holden, M. Broussard
- **Digital Image Analysis of Conglomeratic Outcrops: A Novel Quantitative Approach to Detailing and Predicting the Temporal and Spatial Evolution of Slope Channel Systems:** N. R. Tuitt, B. Kneller

**(Theme 2) Prediction of Deepwater Stratigraphic Uncertainty: Quantification, Characterization and Modeling (AAPG/SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: M. D. Sullivan and D. Pyles

- **Quantitative Seismic Geomorphology of Miocene Submarine Channel-Levee and Distributary Channel Networks Around Growing Salt-Related Slope Topography, Offshore W Africa:** A. P. Oluboyo, D. Vachtman, R. L. Gawthorpe
- **Integrating Outcrop Sections and Research Boreholes to Understand the Internal Organisation of Submarine Lobe Deposits:** A. Prelat, D. Hodgson, S. Flint
- **Stratigraphic Architecture of a Structurally Confined, Ponded Submarine Fan: An Outcrop Study of the Guaso I Turbidite System (Ainsa Basin, Southern Spanish Pyrenees):** G. Gordon, D. Pyles, J. Clark, M. Hoffman, J. Stammer, J. D. Moody, G. Ford
- **The Stratigraphic Transition from Slope to Shelf, Karoo Basin, South Africa:** G. Jones, D. Hodgson, S. Flint
- **Beyond Analogues: A Quantitative Analytical Approach to Modeling Deep Marine Architecture:** E. Mortimer, J. Baas, W. D. McCaffrey, M. Patacci



- **U-Shaped Slope Gully Systems on Low-Sediment Supply Passive Margins: Examples from Gabon (West Africa) and Timor Sea (Indonesia):** L. Lonergan, N. Jamin, J. Bromley, D. Orange, H. D. Johnson, P. Teas, J. Decker, C. Jackson
- **Debrite and Turbidite Sand Relationships as Observed in the Britannia Sandstone Formation, Early Cretaceous, UK North Sea and the Vocontian Palaeomargin, South-East France:** F. H. Wilson, P. Haughton, W. D. McCaffrey, O. Parize, C. Bell, T. Fuzeau, A. Jarvie
- **Evolution and History of Filling of Early Pleistocene, Coarse-Grained Slope Canyons (Peri-Adriatic Basin, Central Italy):** C. Di Celma, G. Cantalamessa, R. Teloni, A. Corradetti, V. Marini
- **Geostatistically Modeling Topographically Controlled Deposition of Sub-seismic Scale Sandstone Packages Within a Mass Transport Dominated Deepwater Channel Belt:** L. Stright, A. Bernhardt, A. Boucher
- **Coeval Deepwater Slope Channel and Transient Fan Successions in the Eocene Juncal Formation, Coast and Transverse Ranges, Southern California:** O. C. Turner, M. Dykstra
- **Erosion Generated Slump Topography as a Primary Control on Turbidite Channel Aspect Ratios: Gull Island Formation, Ireland:** L. J. Strachan
- **Depositional Processes and Correlation of Structurally Confined Deepwater Sandstones from the Upper Jurassic Buzzard Field, UKCS:** M. McKinnon, B. Kneller
- **Role of External Controls on Sedimentary Distribution and Architecture in Deepwater Setting:** S. Jiang, S. Henriksen, H. Wang, D. Cai
- **Behind Outcrop Cores Tied to Adjacent Cliff Sections – New Constraints on the Architecture of the Upper Ross Deepwater Fan to Slope Transition, Clare Basin, Ireland:** C. Pierce, P. Haughton, P. Shannon, O. J. Martinsen, F. Hadler-Jacobsen, A. Pulham

#### **(Theme 4) Challenges in Challenging Reservoirs (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Chair: P. H. Nelson

- **Development of a Sand Injection Complex: Volund Field, Offshore Norway:** A. M. Schwab, E. W. Jameson, A. Townsley
- **Best Practices with Exploration and Production of Oil and Gas from Basement Reservoirs:** T. Koning
- **Regional Approach to Solve Structural Complexity and Cataclastic Fault Seal, Southern North Sea:** H. Ligtenberg
- **Reservoir Characterization of the Middle Jurassic Upper Shaunavon Member in the Whitemud Pool, SW Saskatchewan:** J. D. Fic, P. Pedersen
- **Evolution of Overpressured and Underpressured Oil and Gas Reservoirs, Anadarko Basin of Oklahoma, Texas, and Kansas:** P. H. Nelson, N. Gianoutsos
- **Natural Gas Production and Anomalous Geothermal Gradients of the Deep Tuscaloosa Formation:** L. Burke

#### **(Theme 4) Coal Bed Methane Development (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Chair: D. G. Morse

- **CBM in Illinois? E & P in a Very Unconventional Biogenic Coal Gas Play:** D. G. Morse
- **First Coalbed Methane Commercial Exploration in East Kalimantan, Indonesia:** F. M. Fiqih, A. Purwanto
- **Geological Evaluation and CBM Potential Development in Tanjung Enim Area, South Sumatera, Indonesia:** C. Dira, A. Sodik
- **A Multilateral Case Study in the San Juan Basin: Integrated Geosteering Technology Combined with Near Bit Azimuthal Gamma Tools:** R. Mottahedeh

#### **(Theme 4) Gas Hydrates – Understanding a Giant Resource (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Chair: A. Johnson

- **Sequence Stratigraphy of the Upper Cretaceous Upper Williams Fork Formation, Piceance Basin, Northwest Colorado, and Its Relationship to the Basin-Centered Gas Accumulation:** M. Leibovitz, P. Weimer, S. Cumella, R. Bouroullec
- **Geochemical Evidence for Gas Hydrate Occurrences in Northern Alaska:** T. D. Lorenson, T. S. Collett
- **Global Resource Potential of Gas Hydrate:** A. H. Johnson
- **Provenance of Sandy Sediments and Their Possibility of Hosting Gas Hydrate in the Eastern Margin of Japan Sea:** T. Uchida, I. Takashima, T. Ito, R. Matsumoto
- **Effects of Brine Composition (NaCl, MgSO<sub>4</sub>, FeSO<sub>4</sub>) and Clay Minerals (Kaolinite, Nontronite, Montmorillonite) on the Stable Isotopic Composition of Methane and Hydrogen Sulfide in Gas Hydrates:** H. Carvajal-Ortiz, L. M. Pratt
- **Offshore Natural Gas Hydrates of the Sigsbee Escarpment: An Estimation of the Resource Potential for Gas Hydrates in the Green Canyon and Walker Ridge Regions, Gulf of Mexico:** A. Gould

#### **(Theme 4) New Insights from Key Tight-Gas Provinces (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: S. Cumella and J. Robinson

- **Geological and Geophysical Characteristics of the Ultra-Deep High-Porosity Carbonate Gas Reservoirs, Puguang Gas Field, Sichuan Basin, China:** Y. Sun, H. Zhang, Q. Dou, T. Zhang, T. Guo, X. Cai
- **Characterization of Gas Generated by Sequential Hydrous Pyrolysis of Potential Gas-Prone Source Rocks for Tight-Gas Reservoirs in the Rocky Mountain Area:** T. Ko, M. D. Lewan, N. B. Harris
- **Sequence Stratigraphy of the Upper Cretaceous Middle Williams Fork Formation, Piceance Basin, Northwest Colorado: Implication for Reservoir Sandstones:** R. Foster, P. Weimer, J. Cantwell, R. Bouroullec
- **Structural Analysis of the Piceance Basin, Northwestern Colorado, USA:** R. Bouroullec, P. Weimer
- **From Outcrop-to-Subsurface: The Regional Sequence Stratigraphic Framework and Facies Distribution Within the Lower Williams Fork Formation:** S. Edwards, J. L. Aschoff

- **Sequence Stratigraphy of the Upper Cretaceous Upper Williams Fork Formation, Piceance Basin, Northwest Colorado, and its relationship to the Basin-Centered Gas Accumulation:**

M. Leibovitz, P. Weimer, R. Bouroullec, S. Cumella

- **Tight Gas Sands and Natural Fractures in the Cretaceous Mesaverde Group, Greater Natural Buttes Field, Uinta Basin, Utah:** S. M. Carney, T. C. Chidsey, Jr., C. Morgan, M. D. Laine

- **Challenges in Formation Evaluation of Tight Gas Reservoir:** A. K. Tyagi, S. K. Thakur, V. K. Pandey, D. K. Voleti, K. Saxena

- **Main Geological Characteristics and Resource of Oil Shale and Its Development in Northwest China:** B. Yunlai

#### **(Theme 5) Sedimentology and Stratigraphy – It Really Does Matter! (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: N. Fishman and C. T. Wilhelm

- **Forming of Rich and Lean Oil Shale Deposits in the Eocene Green River Lake Basin – Link to Climate Changes: Piceance Creek Basin, Colorado, USA:** K. Tanavsuu-Milkeviciene, J. Sarg\*
- **Lithofacies Characterization and Sequence Stratigraphic Framework of Some Gas-Bearing Shales Within the Horn River Basin, Northeastern British Columbia:** K. M. Hulsey, R. M. Slatt, R. Dunphy
- **Current-Induced Transport and Depositional Processes of the Barnett Shale in Fort Worth Basin, Texas, USA:** M. O. Abouelresh, R. M. Slatt
- **Vertical Changes in Shale Sedimentary Facies, Organic Content and Composition, Carbonate Content, and Clay Mineralogy of a Thick Shale Dominated Succession of the Carlile and Niobrara Formations, Southwestern Saskatchewan and Southeastern Alberta – Paleo-Oceanographic Circulation and Depositional Setting Controls:** S. E. Taylor, P. Pedersen, R. Spencer, H. Huang, S. Larter, A. Aplin
- **Scales of Diagenetic Processes in a Foreland Basin Mudstone Succession: The Mancos Shale, Book Cliffs, Utah:** K. G. Taylor, J. Macquaker, S. Pattison
- **3-D Architecture of Muddy Clinofolds: Control on the Distribution and Lateral Variation of Sedimentary and Reservoir Facies, Upper Cretaceous, Eastern Alberta:** D. P. Laycock, P. K. Pedersen, R. Spencer, S. Larter, H. Huang, A. C. Aplin
- **Unbioturbated Marine Mudstones: Environmental Stress or Rapid Deposition? A Worked Example from the Ordovician Beach Formation, Newfoundland, Canada:** D. Harazim, J. Macquaker, S. J. Bentley, D. Mollroy
- **Bioturbations, Storms and Earthquakes: The Depositional Environment of the Cambrian Alum Shale in Southern Sweden:** W. Newby, S. Egenhoff, J. Maletz, P. Ahlberg
- **Evidence of Dynamic Marine Processes in a “Black Shale” Dominated Succession Formed by Suspension Settling from Non-Glacial, Sediment-Laden Sea-Ice:** M. A. Keller, J. Macquaker
- **Understanding Mudstone Lithofacies and Geochemical Variability in a UK Carboniferous Basin:** J. Graham, S. Davies, J. Macquaker, M. Norry, K. Bohacs
- **Shale and Mudstone Facies in the Middle to Upper Devonian Genesee Shale to Penn Yan Shale Succession of New York: Implications for Accommodation During a Eustatic Sea Level**



Rise: R. D. Wilson, J. Schieber

- **Constraints on Development of Anoxia Through Geochemical Facies Mapping of Devonian Black Shales in the Southern Midcontinent:**  
R. R. Berryman, A. M. Cruse

**(Theme 6) Facies Models of Fluvial Systems: 50 Years On (SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: J. Holbrook, T. Payenberg and G. Hampson

- **Downstream Variations in Distributive Fluvial System Characteristics, Huesca System, Ebro Basin, Spain:** A. Kulikova, G. Nichols, A. J. Hartley, G. S. Weissmann, S. Davidson, L. Scuderi
- **The Evolution of Dryland Fluvial Systems: An Architectural Analysis of Heterogeneity:**  
J. H. Venus, W. D. McCaffrey, N. P. Mountney
- **Depositional Environments of the Lake Eyre Basin:** K. J. Amos, C. Krapf, G. Wakelin-King
- **Facies Architecture of a Compound Incised Valley System in the Ferron Notom Delta, Southern Utah:** Y. Li, J. Bhattacharya
- **Stratigraphic Variability of Coastal-Plain and Marginal-Marine Deposits of the Middle Mesaverde Group, Douglas Creek Arch, Colorado:**  
E. Harper, K. Hlava, R. D. Cole, M. J. Pranter
- **Scale Invariance in Fluvial Bars: Implications for Reservoir Modelling of Fluvial Systems:**  
B. I. Holzweber, A. J. Hartley
- **Stratigraphic Characterization and Modeling of Fluvial Deposits of the Lower Williams Fork Formation Combining Outcrop Analogs and Multipoint Statistical Simulation (MPS), Grand Valley Field, Piceance Basin, Colorado:** J. A. Sloan, M. J. Pranter
- **Lidar-Integrated Outcrop Characterization of Blackhawk Formation, Wasatch Plateau, Utah: Towards Improved Fluvial Reservoir Modeling:**  
H. Sahoo, N. D. Gani, R. Gani, G. Hampson, J. A. Howell, S. J. Buckley, A. M. Ranson
- **Preliminary Regional Stratigraphic Correlation, Facies Analysis and Reservoir Characterization of the Upper Cretaceous Mesaverde Group, Uinta Basin, Utah:** R. Sitaula, J. L. Aschoff
- **Sequence Stratigraphic Analysis of Middle Devonian Fluvial Deposits and Correlation with the Marine in the Appalachian Basin, New York, USA:** J. S. Mintz, S. G. Driese, R. Harlow, T. Wright, S. C. Atchley
- **Complex Transition of Shallow-Marine Star Point Formation to Coastal-Plain Blackhawk Formation, Wasatch Plateau, Utah:** A. M. Ranson, R. Gani, G. Hampson, N. D. Gani, H. Sahoo

- **Accommodation as a Control on Coastal-Plain Architectures: Observations and Analyses of the Cretaceous Versus Paleocene Prince Creek Formation, North Slope, Alaska:** P. P. Flaig

**(Theme 8) Breakthroughs in Petroleum Systems Modeling & Geochemistry (AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: R. Tscherny, F. Mosca and D. Curry

- **3-D Petroleum System Modeling Illuminates Subsurface Geology of Upper Assam (Geleki and Naga-Schuppen Belt), Assam Arakan Basin, India:**  
M. Akhtar, S. K. Chakrabarti, R. Singh, C. Singh, H. Singh, S. Mayor, S. Pahari, H. Singh
- **Salt Tectonic Controls on Fluid Flow, Gas Hydrate Occurrence and Surface Heat Flow, Kwanza Basin, Offshore Angola:** C. Serié, M. Huuse, N. Schødt
- **Distribution of Hydrocarbon Leakage Indicators in the Argentinean Continental Margin: A Comparative Study of the Colorado and Malvinas Basins:** Z. Anka, N. Baristead, M. Loegering, R. diPrimio, J. Rodriguez, D. Marchal, E. Vallejo, G. Kohler, F. Pangaro
- **Radial Patterns of Bitumen Dikes Around Quaternary Volcanoes, Neuquén Basin, Argentina:** P. R. Cobbold, G. Ruffet, L. Leith, H. Loseth, N. Rodrigues, O. Galland, H. Leanza
- **Geochemical Characterization of Outcrop Samples from the South Caspian Basin, Eastern Azerbaijan: The Value of a Multidisciplinary Approach in Understanding Petroleum Source Intervals:** S. Hudson, C. Johnson, M. Efendiyeva
- **Fluid Flow and Compartmentalization on the Flank of a Salt Structure, Offshore Louisiana: Constraints from Temperature, Pressure, Salinity, and Seismic Data:** A. K. Steen, J. Nunn, J. S. Hanor
- **Petroleum System Modeling Implications in a Prospect Geological Risk, Western Interior Range, Venezuela:** L. Montilla, M. Salazar, S. Rojas, A. Gonzalez
- **The Upper Cretaceous and Eocene Source Rocks in the Sfax Offshore Permit – Gulf of Gabes – Tunisia, Pelagian Basin, North Africa: Source Rock Characterization, Petroleum Generation, Charge History and Prediction of Migration Pathways:**  
M. Acheche, H. Ali, J. E. Leonard, M. Elleuch, A. M'Rabet, M. Mathis, P. T. Gordon, H. M. Bisewski

**(Theme 9) Seismic Hydrocarbon Detection – SEEPS (AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: D. L. Connolly and T. B. Berge

- **Best Practices for the Collection, Analysis, and Interpretation of Seabed Geochemical Samples to Evaluate Subsurface Hydrocarbon Generation and Entrapment:** M. A. Abrams

- **Mechanism of Up-Fault Seepage and Seismic Expression of Discharge Sites from the Timor Sea:** L. Langhi, Y. Zhang, A. Gartrell, D. Dewhurst, J. Underschultz, B. N. Ciftci

- **A Multidisciplinary Assessment of Generation-Migration-Charge-Leakage-Seepage Processes, Gippsland Basin, Australia:** T. B. Berge, G. O'Brien\*, P. Tingate, L. Goldie Divko, J. Miranda, K. Liu

- **Identifying Abnormal Geopressures Through Gas Chimney Detection:** D. L. Connolly, S. Bourque

- **Web-Based Georeferenced Information System – A Cutting-Edge Managing Tool for Opportunity Portfolios and Oil Business:** C. K. Garcia, J. Moscarella, O. Liscano, D. Garcia, L. Melo

- **Analysis and Interpretation of Biomarkers from Seafloor Hydrocarbon Seeps:** H. Dembicki

- **Non-Seismic Detection of Hydrocarbons:** D. Schumacher

- **Non-Seismic Detection of Hydrocarbons:** D. Schumacher

**(Theme 10) Water Resource Management and Impacts (DEG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Chair: S. Haines

- **Role of Carbon Isotopes in Addressing the Water-Energy Nexus: Example from Powder River Basin Wyoming:** S. Sharma, C. Frost, J. Baggett, F. McLaughlin, S. Quillinan
- **New Insights Regarding Aquifers in the Uinta Basin, Utah: Implications for Saline Water Disposal:** M. D. Vanden Berg, P. Anderson, C. Morgan, S. M. Carney
- **Future Water Needs of the Oil and Gas Industry in Texas:** J. Nicot
- **Developing Water Budgets for Unconventional Oil and Gas Production: A Study in the Williston Basin, Montana and North Dakota:** S. Haines, J. Thamke, L. Anna, B. Smith, M. Engle
- **Petroleum Hydrogeology of Southwestern Saskatchewan:** A. Melnik, B. J. Rostron
- **Preparing for and Handling Common Complaints by Private Water Well Owners Related to Coal Bed Methane, Shale Gas and Other Unconventional Development Programs:**  
J. V. Fontana, D. Seneshen, V. E. Barlock
- **Combining Hydrolysis and Compound Specific Stable Isotope Measurements to Identify Sources of Biodegraded PAHs in Sediments:**  
G. A. Olalere, C. Sun, M. Cooper, C. E. Snape, C. Vane



# Tuesday Morning Oral Sessions

\*Denotes presenter other than first author

Theme 1: Molecules to Marketplace: The Business of Energy  
Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P  
Theme 3: Worldwide E&P: Opportunities in the New Decade  
Theme 4: Challenged Resource Frontiers  
Theme 5: Mudstones and Shales: Unlocking the Promise  
Theme 6: Siliciclastics: Advancing Research to Resource

Theme 7: Insight into Carbonates and Evaporites  
Theme 8: Breakthroughs: Tectonics, Salt and Basin Analysis  
Theme 9: Integrating New Technology, Geophysics and Subsurface Data  
Theme 10: Energy and Environmental Horizons  
Theme 11: The Next Geo-Generation: Who, What and Where

TUESDAY MORNING ORALS

## Forum: Transforming Global E&P: Unconventional Resource Plays as Strategic Drivers. The Next Giant Leap in Geoscience?

General Assembly A

Co-Chairs: J. Lund and J. Adamick

See Summary Page 4

8:00 a.m.–11:50 a.m.

## (Theme 5) U.S. Active and Emerging Plays – Haynesville and Eagle Ford (EMD/AAPG)

General Assembly B

Co-Chairs: A. Donovan and W. Dow

8:00 Introductory Remarks

8:05 Geologic Framework of the Southeastern Portion of the U. Jurassic Haynesville/Bossier Shale Gas Play, Northwest Louisiana:

P. R. Smith, A. Kornacki, H. Moore, N. Yah, N. Suurmeyer, R. Mart, A. Reynolds

8:25 Burial and Thermal History of the Haynesville Shale: Implications for Gas Generation, Overpressure, and Natural Hydrofracture:

J. Nunn

8:45 Mapping the Production Characteristics of the Haynesville Shale with a Well-Log Derived High-Density Stratigraphic Framework:

M. C. Robinson, R. Hovey

9:05 Sequence Stratigraphy of the Eagle Ford (Boquillas) Formation in the Subsurface of South Texas and Outcrops of West Texas:

A. D. Donovan, S. Staerker

9:25 Regional Stratigraphic and Rock Characteristics of Eagle Ford Shale in Its Play Area: Maverick Basin to East Texas Basin:

T. Hentz, S. Ruppel

9:45 Break

10:25 Eagle Ford Shale Prospecting with 3-D Seismic Data Within a Tectonic and Depositional System Framework:

G. Treadgold, S. Sinclair, B. Campbell, D. Nicklin

10:45 Experimental Gas Extraction by Rock Crushing: Evidence for Preservation of Methane in Core Samples from the Mudstones of the Eagle Ford Formation:

T. Zhang, S. C. Ruppel, K. Milliken, R. Yang

11:05 Hydrocarbon Potential of Upper Cretaceous Shale Sections, Including the Eagle Ford, Woodbine and Maness Shale, Central Texas:

T. D. Bowman

11:25 Geochemical Evaluation of Eagle Ford Group Source Rocks and Oils from the First Shot Field, Texas: Implications and Applications for Appraisal of Eagle Ford Resource Plays:

J. Edman, J. Pitman

## (Theme 2) Prediction of Deepwater Stratigraphic Uncertainty: Quantification, Characterization and Modeling I (AAPG/SEPM)

General Assembly C

Co-Chairs: V. Abreu and J. Clark

8:00 Introductory Remarks

8:05 How Deepwater Systems Organise at Multiple Scales:

S. Flint, D. Hodgson, A. Sprague, R. Brunt, J. Figueiredo, D. Box, W. Van der Merwe, C. Di Celma, A. Prelat

8:25 Scale-Dependent Compensational Stacking of Deepwater Deposits: Carboniferous Ross Sandstone:

K. M. Straub, D. Pyles

8:45 Stratigraphic Architecture and Hierarchy of Lobes in Distributive Deepwater Settings: An Outcrop Study of the Point Loma Formation, California:

A. Fleming, D. Pyles, M. D. Sullivan, D. Anderson

9:05 Intrinsic Controls on the Range of Volumes, Morphologies, and Dimensions of Submarine Lobes:

A. Prelat, J. Covault, D. Hodgson, A. Fildani, S. Flint

9:25 Stratigraphic Stacking of Outcropping Slope Channels, Tres Pasos Formation, Chile: Insights into Turbidite Reservoir Delineation:

R. V. Macauley, S. M. Hubbard

9:45 Break

10:25 Seismic Stratigraphic and Seismic Geomorphologic Study of Mass Transport and Sediment Wave Deposition, Offshore Eastern Canada:

H. W. Posamentier, K. Bale, S. M. Decker, R. Jowitt

10:45 A Three-Dimensional Geometric Analysis of Bank-Attached Bar-Forms in Sinuous Submarine Channels: A Tool for Inferring the Relative Importance of Bedload and Suspended Load Sedimentation:

A. M. Fernandes, D. Mohrig, R. J. Steel, S. Henriksen, J. Buttles

11:05 Differentiating Deep-Marine Overbank from Crevasse Splay Deposits in Outcrop: An Example from the Windermere Supergroup, Castle Creek, British Columbia:

L. Davis, Z. Khan, B. Arnott\*

11:25 Application of Outcrop-Based Modeling of Deepwater Channels, Okume Complex, Offshore Equatorial Guinea; How Much Reservoir Detail Do You Need?:

R. Beaubouef, B. Hay, D. Palkowsky, J. Spokes, S. Uchytal

## (Theme 6) SEPM Research Symposium Source to Sink: Evaluating the Significance of Interdependence of Depositional Systems I

Room 342

Co-Chairs: C. Paola, O. J. Martinsen, H. W. Posamentier and B. Romans

See Summary Page 5

8:00 Introductory Remarks

8:05 Source to Sink – Why it Matters:

H. W. Posamentier, O. J. Martinsen, C. Paola

8:45 Industry-Driven Advances in Predictive Earth Systems Modelling: Addressing the Paleotopography Challenge in 4-D:

A. K. Thurmond, O. J. Martinsen, I. Lunt, J. Skogseid, L. Leith

9:05 Sun to Sink: Impact on Exploration Strategy in Rift Basins:

M. Perlmutter

9:25 Modeling Sediment Dynamics from Source to Sink:

M. A. Wolinsky

9:45 Break

10:25 Remembering the ‘Source’ When Applying Source-to-Sink Concepts in Clastic Stratigraphy:

B. Romans, A. Fildani, J. Covault, M. D. Sullivan, J. Clark, B. Power, M. Pyrcz, B. Bracken, B. Willis, T. Payenberg

10:45 The Slope Rise and Run: A Critical Factor in Explaining and Predicting the Development, Distribution, and Scale of Basin-Floor Fans:

A. D. Donovan

11:05 Accommodation Succession Method and Mass Balance Analysis: Predicting Sediment Distribution and Stratigraphic Architecture:

V. Abreu, M. Blum, J. Martin, D. O’Grady, J. Neal, C. Paola

11:25 The Use of a Source-to-Sink Methodology in Petroleum Exploration – Examples from the Mesozoic of the North Sea:

T. O. Sømme, C. Jackson, O. J. Martinsen

## (Theme 8) Impact of Structural Analysis on Hydrocarbon Exploration (AAPG)

Room 351

Co-Chairs: T. M. Laroche, C. A. Guzofski and J. C. Evenick

8:00 Introductory Remarks

8:05 Techniques for Subseismic Fault Prediction: Filling the White Space:

J. G. Solum, J. P. Brandenburg, S. Naruk, D. Wolf

8:25 New Insights into Fault-Bend Folding Revealed by Area-Depth Relationships in Physical Models, the Rosario Oil Field, Venezuela, and an Outcrop Example from the Canadian Rockies:

R. H. Goshong, T. N. Hidayah, M. O. Withjack, R. W. Schlische

8:45 Application of Geomechanics-Based Restoration in the Analysis of Growth Dynamics in Fold-Thrust Structures:

S. Banerjee, S. K. Muhuri

9:05 Shale Diapirism and Associated Folding History in the South Caspian Basin (Offshore Azerbaijan):

J. I. Soto, I. Santos-Betancor, I. Sánchez Borrego, C. E. Macellari



9:25 Application of Critical-Taper Wedge Mechanics to Structural Style in Fossilized and Active Late Cretaceous-Tertiary Delta — Deepwater Fold-Thrust Belts: J. MacDonald, D. Healy, R. King, G. Backe, R. Hillis

9:45 Break

10:25 500-Kilometer-Long Extension of the Trans-Andean Mega-Regional Seismic Transect Across the Colombian Basin and Implications for Deepwater Hydrocarbon Exploration: C. A. Vargas-Jimenez, P. Mann

10:45 Influence of the Eastern Cordillera Exhumation on the Structural Evolution of the Eastern Part of Middle Magdalena Valley Basin, Colombia: C. J. Sanchez, E. Teson, B. K. Horton, A. R. Mora Bohorquez, R. A. Ketcham, D. F. Stockli, N. R. Moreno

11:05 Role of Panama Arc-Indentor for Late Cenozoic Deformation in Colombia and Implications for Regional Distribution of Hydrocarbons: P. Mann, C. A. Vargas-Jimenez

11:25 Structural Analogy Between the Inverted Structures of the Moroccan Atlas System and the Syrian Arc Structures of the Eastern Mediterranean: G. Tari, H. Jabour

### (Theme 10) Alternative Energy: Geothermal (EMD/AAPG)

Room 360

Chair: R. J. Erdlac

8:00 Introductory Remarks

8:05 New Horizons for Geothermal Energy in Sedimentary Basins in Colorado: P. Morgan, M. A. Sares

8:25 The Deep Subsurface Geology, Hydrology, and Enhanced Geothermal Systems (EGS) Potential of NPR-3 (Teapot Dome), Natrona County, Wyoming: T. C. Anderson, J. A. Velez Gonzales

8:45 Determining Reservoir Heat Content in Sedimentary Rock from Oil Field Temperature Data — First Approximations: R. J. Erdlac

9:05 Geothermal in the Oil Field: W. Gosnold, M. Mann, H. Salehfar

9:25 Developing Information for the National Geothermal Data System (NGDS): D. D. Blackwell, F. Moerchen, I. J. Duncan\*, W. D. Gosnold, M. Kay, S. Nagihara, C. Robinson, J. Tester

### (Theme 10) Alternative Energy: Uranium/Nuclear (EMD/AAPG)

Room 360

Chair: B. Handley

10:25 Potential Uranium Source Rocks of the White River Group in Western Nebraska and South Dakota: S. Sibray

10:45 State of the Uranium Industry in the U.S.: H. M. Wise, M. Campbell

11:05 Update on Wyoming Uranium Mining: R. Gregory

11:25 Small Modular Nuclear Reactors: An Energy Solution to Remote Gas & Oil Production and Exploration: J. R. Deal

### (Theme 3) E&P in Southeast Asia (AAPG)

Room 361

Co-Chairs: A. Cullen and B. Fossum

8:00 Introductory Remarks

8:05 East Indonesia: Plays and Prospectivity of the West Aru, Kai Besar and Tanimbar Area — Identified from New Long Offset Seismic Data: G. Roberts, C. Ramsden, T. Christoffersen, N. Wagimin, Y. Muzaffar

8:25 Naturally Basement Fractured Reservoir as a New Exploration Target in the Iliran High, South Sumatra Basin, Indonesia: B. Sapiie, M. Patria, R. Argakoesoemah, T. Herdiyan, D. A. Firmansyah, W. Darmawan

8:45 Finding New Reserves in Mature Basins Through Simulation of Dynamic Hydrocarbon Migration and Accumulation, Dongying Depression, Bohai Bay Basin, China: S. Zhang, G. Song, X. Luo, L. Zhang, Y. Lei

9:05 Recent Significant Discoveries in Mature Basins — Take Offshore Bohai Bay Basin as an Example: Z. Weilin, X. Qinglong, Z. Xinhua

9:25 The Northern South China Sea Deepwater Basin: Characteristics of Hydrocarbon Accumulation and Exploration Potential: W. Zhu, L. Mi, G. Zhang, Q. Xu, Y. Wang, K. Zhong, D. Fang

9:45 Break

10:25 Early Miocene Cyclostratigraphy and Sea-Level Changes from the Pearl River Mouth Basin, South China Sea: S. Tian, Z. Chen, M. Zha

10:45 A New Sedimentary Model for the Qiangtang Basin, Tibet, China: J. Wang, X. Fu, F. Tan, M. Chen, J. He

11:05 A Review of the Hydrocarbon Potential of East Timor, JPDA and the Surrounding Area: M. Bawden, G. Scaife, R. Miller

11:25 Geological Conditions and Accumulation Mechanism of Shallow Biogenic Gas Reservoirs in Andaman Basin: W. Hongping, L. Fuliang, G. Fan, C. Mao, M. Hongxia

### (Theme 7) Advances in Modeling Carbonate Systems I (SEPM)

Room 370

Co-Chairs: F. Whitaker, D. A. Pollitt and P. Burgess

8:00 Introductory Remarks

8:05 Breakthroughs in the Use of Analogues in Geological Modeling — Examples from Holocene Sabkhas of Qatar: J. Jameson, C. J. Strohmenger

8:25 Investigating Carbonate Platform Types: Multiple Controls and a Continuum of Geometries: P. Burgess, H. Williams, P. Wright, G. Della Porta, D. Granjeon

8:45 Enhancing Subsurface Reservoir Models — An Integrated MPS Approach Using Outcrop Analogs, Modern Analogs, and Forward Stratigraphic Models: P. M. Harris, J. Kenter, T. Playton, M. Andres, G. Jones, M. Levy

9:05 Rule-Based Static Modeling of Carbonate Shoals Environments and Related Reservoirs: C. Hasler, E. W. Adams, B. Vlaswinkel

9:25 Predicting Carbonate Diagenesis Using Reactive Transport Models: Emerging Insights and Challenges: F. Whitaker, K. J. Cooper, A. Al-Helal, P. Smart, S. Geiger, Y. Xiao

9:45 Break

10:25 Reaction Transport Modeling of Dolomitization Reveals the Emergence of Self-Organizing Patterns: D. A. Budd, A. J. Park

10:45 Digital Outcrop Analogues Model of Ordovician Paleokarst in North-Central Tarim Basin, China: X. Janson, H. Zeng, W. R. Wright, R. Loucks, F. Bonnaffe, Q. Wang, X. Xia, C. Wang, S. Li, T. Yang

11:05 A Hybrid Depositional-Diagenetic Approach to Building the Reservoir Model for the Unit 1 Platform of Tengiz Field (Republic of Kazakhstan): J. Kenter, T. Tankersley, M. Skalinski, P. M. Harris, M. Levy, T. Dickson, G. Jacobs

11:25 Impact of Carbonate Reservoir Heterogeneity on Reservoir Forecasts: Why Are Production Forecasts Too Optimistic and Can Anything Really Be Done to Eliminate Forecast Bias?: W. Meddough, W. Osterloh, N. Champenoy



# Tuesday Afternoon Oral Sessions

\*Denotes presenter other than first author

Theme 1: Molecules to Marketplace: The Business of Energy  
Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P  
Theme 3: Worldwide E&P: Opportunities in the New Decade  
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Theme 9: Integrating New Technology, Geophysics and Subsurface Data  
Theme 10: Energy and Environmental Horizons  
Theme 11: The Next Geo-Generation: Who, What and Where

## Forum: Taking Natural Gas Seriously: Opportunities and Challenges (AAPG)

General Assembly A

Co-Chairs: S. W. Tinker, W. L. Fisher and S. Ikonnikova

See Summary Page 5

1:15 Introductory Remarks

1:20 The Future of Natural Gas: W. L. Fisher, S. W. Tinker

1:40 U.S. Natural Gas Resources, Reserves and Production: Unconventional, Less-Conventional and Conventional: J. B. Curtis

2:00 Natural Gas Supply: Not as Great or as Inexpensive as Commonly Believed: A. E. Berman

2:20 Shale Gas: Advances in Technology and Impacts on Markets: P. Bennett

2:40 Security of Supply: Operational Margins at the Wellhead and Natural Gas Reserve Maturation: R. Weijermars

3:00 Break

3:40 Economic Determinants of the Global Natural Gas Balance: K. B. Medlock

4:00 A Global Perspective on LNG: G. Gulen

4:20 The Outlook for U.S. Natural Gas Demand: J. R. Browning

4:40 Impact of Regulation on the Power Sector: Opportunities for Natural Gas: S. Ikonnikova

5:00 Summary/Discussion

## (Theme 5) U.S. Active and Emerging Plays — Paleozoic Basins and Cretaceous of Rockies (EMD/AAPG)

General Assembly B

Co-Chairs: R. Hill and S. Brown

1:15 Introductory Remarks

1:20 Unlocking Value in an Unconventional Gas Shale Play by Returning to Conventional Basics: Regional Analysis of the Woodford Shale, Arkoma Basin: L. A. Banfield, M. Graff, A. Pramudito, A. Agrawal

1:40 Deformation in the Appalachian Foreland: Detachment Structures in the Basal Marcellus Shale, Central New York: B. Selleck

2:00 An Overview of Some Key Factors Controlling Well Productivity in Core Areas of the Appalachian Basin Marcellus Shale Play: W. Zagorski, D. Bowman, M. Emery, G. Wrightstone

2:20 Potential Paleozoic Shale Gas Resources in Utah: T. C. Chidsey, Jr.

2:40 TBD

3:00 Break

3:40 Black Shale Diagenesis: Insights from Integrated High-Definition Analyses of Post-Mature Marcellus Formation Rocks, Northeastern Pennsylvania: C. D. Laughrey, H. Lemmens, T. E. Ruble, J. Kostelnik, G. Walker

4:00 The Barnett Shale Oil Model of North Texas: D. Steward

4:20 An Integrated Geochemistry and Basin Modeling Study of the Bakken Formation, Williston Basin, USA: R. Hill, P. P. Kuhn, R. diPrimio, J. Lawrence, B. Horsfield

4:40 Petroleum Potential of the Upper Three Forks Formation, Williston Basin, USA: S. Sonnenberg, J. Sarg, A. Gantyno

## (Theme 2) International Deepwater Exploration Case Studies (AAPG/SEPM)

General Assembly C

Co-Chairs: B. W. Horn and R. Beaubouef

1:15 Introductory Remarks

1:20 The Distribution of Deepwater Reservoirs and Depositional Environments: Can They Really Be Controlled by Crustal-Mantle Interactions? Evidence from the African Atlantic Margin: D. Paton, M. Mohammed, R. Collier

1:40 Interpretation of Long-Offset, Prestack Depth Migrated (PSDM), Regional 2-D Seismic Data Offshore Equatorial Brazil: Tectonic Controls on Sedimentation and Comparison with Conjugate West African Margin: N. Kumar, S. G. Henry, A. Danforth, P. Nuttall, S. Venkatraman

2:00 New 3-D Depth Imaging Reveals Insights into the Evolution and Pre-salt Prospectivity of the Angolan Kwanza Basin, West Africa: M. Francis, C. Rodriguez, J. Brown, D. Kornpihl, C. Abu, G. Milne, N. Herbst, M. Inkollu

2:20 The Late Miocene Red River Submarine Fan in the Northwestern South China Sea: Characteristics and Exploration Significance: Y. Wang, Q. Xu, D. Li, W. Li, J. Han, M. Lv, Y. Wang, H. Wang

2:40 Delineating Deepwater Depositional Patterns in a Foredeep Basin: An Integrated Study from North Chicotepec Basin, East-Central Mexico: S. Sarkar, S. P. Cossey, K. J. Marfurt, R. M. Slatt, S. Chávez-Pérez

3:00 Break

3:40 The Dilemma of Fine-Grained, Very Thinly Bedded Reservoirs; Storage Versus Deliverability, Elon Reservoir Area, Okume Complex, Offshore Equatorial Guinea: R. Beaubouef, S. Uchytal, D. Maguire, H. Ladegaard, J. Spokes, B. Hay, D. Palkowsky

4:00 The Impact of Stratigraphic Interpretation on Lucapa Field Development Planning, Deepwater Angola: E. Rojas, H. W. Posamentier, K. Mabe

4:20 Impact of Fine-Scale Turbidite Channel Architecture on Deepwater Reservoir Performance: F. Alpak, J. Noirot, M. Barton, S. Naruk

4:40 Geophysical, Petrophysical and Sedimentological Characterisation of Paleocene Submarine Fan Systems UK Central North Sea: B. Kilhams, A. Hartley, M. Huuse, J. Marshall

## (Theme 6) SEPM Research Symposium: Source to Sink: Evaluating the Significance of Interdependence of Depositional Systems II Room 342

Co-Chairs: C. Paola, O. J. Martinsen, H. W. Posamentier and B. Romans

See Summary Page 5

1:15 Introductory Remarks

1:20 Linking Landscape and Stratigraphic Studies in Rift Basins: Implications of Source-to-Sink Studies in Exploration of Syn-rift Plays: R. L. Gawthorpe, E. Finch, T. O. Sømme

2:00 Direct Transfer of Sand from Shelf-Edge Deltas to the Continental Slope: D. Mohrig, M. P. Lamb, J. Nittroer

2:20 Sediment Volume and Facies Partitioning in Shelf-Margin Prisms: C. Carvajal, R. Steel

2:40 Stratigraphic Complexity of Shelf-to-Basin Depositional Systems — Examples from the Mediterranean Sea: V. R. Kertznus, B. Kneller

3:00 Break

3:40 An Ancient "Source-to-Sink" Example in Piggyback Basins, Pyrenean Fold and Thrust Belt: J. Geslin, V. Abreu, T. Demko

4:00 Shelf Edge Architecture and Source-to-Sink Dynamics in the Northern Taranaki Basin, New Zealand: M. Salazar, L. Moscardelli, L. Wood

4:20 Source-to-Sink Sediment Delivery in the Gulf of Papua from SEM-MLA-aided Provenance and Textural Analysis of Turbidite Sands: E. Septama, S. J. Bentley, M. Shaffer

4:40 Seismic Stratigraphy and Reservoir Sedimentology of Wave-Dominated Delta and Slope-Basinal Turbidite Reservoirs, Cretaceous Lower Barrow Group, Wa-390-P, North Carnarvon Basin, Western Australia: J. Minken, C. R. Handford, D. Griffin, P. Owen, J. Miller

## (Theme 9) Seismic Stratigraphic and Source Rock Interpretation (AAPG/SEPM)

Room 351

Co-Chairs: S. Earle, M. Dalthorp and M. A. Abrams

1:15 Introductory Remarks

1:20 Quantifying Bypassed Pay Through 4-D Post-Stack Inversion: R. Wock, S. Boerner



- 1:40 **Static and Dynamic Heterogeneity Modeling of a Deepwater Clastic Reservoir:** H. Tang, D. Hanggoro, F. Zhang, K. Mabe
- 2:00 **Stratigraphic Trapping in the M1 Sandstone Related to Reactivated Faulting in the Mariann Field, Oriente Basin, Ecuador:** A. Taday-Alcocer, J. Lin
- 2:20 **Seismic Geomorphology and Analysis of the Ordovician Paleokarst Drainage System in the Central Tabei Uplift, Northern Tarim Basin, Western China:** H. Zeng, R. Loucks, X. Janson, Q. Wang, Y. Xia, B. Yuan, L. Xu
- 2:40 **Recognition and Meaning of Hydrocarbon Seeps:** T. B. Berge
- 3:00 **Break**
- 3:40 **Integration of Evidence of Hydrocarbon Seepage from 3-D Seismic and Geochemical Data for Predicting Hydrocarbon Occurrence: Examples from Neuquen Basin Argentina:** D. L. Connolly, R. Garcia, J. Capuano
- 4:00 **Source Rock Prediction from Seismic Part I: Links Between Rock Properties and Seismic Attributes:** L. Wensaas, M. Gading, H. Løseth, M. Springer
- 4:20 **Source Rock Prediction from Seismic Part II: Identifying and Mapping Source Rocks Claystones on Seismic Data:** H. Løseth, L. Wensaas, M. Gading, K. Duffaut
- 4:40 **Source Rock Prediction from Seismic. Part III: Application in Basin Modelling:** M. Gading, H. Løseth, L. Wensaas, K. Duffaut, J. Johannesen, M. Springer, P. Espedal, R. Tøndel

**(Theme 10) Clean Coal: Coalbed Methane (EMD/AAPG)**

Room 360

Co-Chairs: W. A. Ambrose and P. D. Warwick

- 1:15 **Introductory Remarks**
- 1:20 **An Overview of Clean Coal Technologies and Carbon Capture and Storage (CCS):** I. J. Duncan, W. A. Ambrose
- 1:40 **Economic and Regulatory Considerations for Clean Coal:** G. Gulen, M. Foss
- 2:00 **Clean Coal Technology Development and Its Impact on the Energy Industry in the Southeastern United States:** J. Pashin
- 2:20 **Predicting CBM Well Production Performance:** K. Aminian

- 2:40 **Potential for Enhanced Methane Production from Coal, with Concomitant CO<sub>2</sub> Sequestration — Examples from a High-Rank Coal (Pottsville Formation, Black Warrior Basin) and a Low-Rank Coal (Wilcox Group, Texas Gulf Coast Basin):** W. B. Ayers, D. A. McVay, M. A. Barrufet, G. Hernandez, R. Bello, T. He

**(Theme 10) Alternative Energy: Renewable (EMD/AAPG)**

Room 360

Chair: H. M. Wise

- 3:40 **Introductory Remarks**
- 3:45 **Sustainable Use of Fossil Energy:** D. Nummedal
- 4:05 **An Update on Biofuel Source Developments:** R. Bost, W. Spence
- 4:25 **“Natural Security: Border Region Renewable Energy and Strategic Mineral Opportunities”:** K. L. Jones, A. H. Jones
- 4:45 **Geochemical Evolution of Pegmatites as Monitored by Select Indicator Elements:** K. F. Camp

**(Theme 6) Facies Models of Fluvial Systems: 50 Years On I (SEPM)**

Room 361

Co-Chairs: J. Holbrook, T. Payenberg and G. Hampson

- 1:15 **Introductory Remarks**
- 1:20 **Facies Modeling of Fluvial Systems, Fifty Years On:** A. D. Miall
- 1:40 **Re-Evaluation of the Platte River Facies Model for Sandy Braided Alluvium, Using New Surface and Subsurface Data:** J. Horn, C. Fielding\*, M. Joeckel
- 2:00 **Rethinking the Classic Oxbow Filling Model: Some Hope for Improved Reservoir Connectivity:** J. Holbrook, N. Alexandrowicz
- 2:20 **The Stratal Signature of Backwater Hydraulic Conditions in Campanian Lower Castlegate Sandstone Paleo-Rivers, Book Cliffs, USA:** A. Petter, R. Steel, D. Mohrig, J. Nittrouer
- 2:40 **Statistical Tools for Characterizing Autogenic Organization in Sedimentary Deposits:** L. Hajek, K. M. Straub
- 3:00 **Break**
- 3:40 **Revisiting the Subsurface Classification of Fluvial Sandbodies:** T. Payenberg, B. Willis, B. Bracken, H. W. Posamentier, M. Pyrcz, V. Pusca, M. D. Sullivan

- 4:00 **Spatial and Temporal Variations of a High Net-to-Gross Fluvial System: Middle Wasatch Formation, Three Canyons, Utah — An Outcrop Study of Fluvial Cyclicity:** G. Ford, D. Pyles, M. Dechesne, B. Willis, M. Tomasso, R. Sincavage

- 4:20 **Different Styles of Fluvial Termination Deposits Around a Large Playa:** K. J. Amos, A. Soria Jauregui

- 4:40 **Recognition of Dryland Fluvial and Terminal Splay Systems in the Pinda Formation, Offshore Angola: Implications for Predicting Subsurface Reservoir Connectivity:**

A. A. Kulpecz, B. Bracken, S. K. Shepherd, J. Moore Ali-Adeeb, P. Sixsmith, B. Scamman

**(Theme 7) Modern & Pleistocene Carbonates: Sedimentology, Diagenesis and Process II (SEPM)**

Room 370

Co-Chairs: J. R. Markello, J. Gournay and A. W. Droxler

- 1:15 **Introductory Remarks**
- 1:20 **Arabian Gulf, One More Time:** E. A. Shinn, C. C. Kendall
- 1:40 **Facies and Diagenesis of Older Pleistocene Coral Reefs, Great Barrier Reef, Australia (IODP 325):** E. Gischler, A. W. Droxler, J. Webster, Expedition 325 Scientists
- 2:00 **Bahaman Patch Reefs: Reservoirs Under Construction:** P. Enos, R. N. Ginsburg, A. Harrison, M. S. Palmer
- 2:20 **Spatial Variation of Extensive Early Diagenesis on Glover’s Reef, Belize:** N. J. Van Ee, G. P. Eberli, E. Gischler
- 2:40 **Analyzing Spatial Patterns in Modern Carbonate Sand Bodies from Great Bahama Bank:** P. M. Harris, S. J. Purkis, J. Ellis
- 3:00 **Break**
- 3:40 **A Multi-site Appraisal of Geobody Morphometric Properties Atop Ten Modern Carbonate Platforms:** S. J. Purkis, K. Alexander, S. Fullmer, A. Ruf, T. Simo, K. Steffen
- 4:00 **Control of Monsoonal Currents on Pleistocene Carbonate Sedimentation on the Maldives Carbonate Platform (Indian Ocean):** A. Paul, J. J. Reijmer, H. Kinkel, J. Fuerstenau, A. W. Droxler, C. Betzler
- 4:20 **Consistencies in Vertical-to-Lateral Carbonate Facies Juxtapositions; A Direct Comparison Between Modern and Miocene is Possible:** S. J. Purkis, B. Vlaswinkel
- 4:40 **The Sedimentary Influences of Hurricanes Hannah and Ike (September 2008) on the Caicos Platform, B.W.I.: Do High-Energy Storms Impact Sedimentation on Carbonate Platforms?:** S. Bachtel, C. Kerans, C. I. Bachtel



# Tuesday All-day Poster Sessions

Presenters in their Booths 9:30 a.m.–10:30 a.m. and 3:00 p.m.–4:00 p.m. /// \*Denotes presenter other than first author

**Theme 1:** Molecules to Marketplace: The Business of Energy  
**Theme 2:** Global Deepwater Reservoirs: Giant Leaps in E&P  
**Theme 3:** Worldwide E&P: Opportunities in the New Decade  
**Theme 4:** Challenged Resource Frontiers  
**Theme 5:** Mudstones and Shales: Unlocking the Promise  
**Theme 6:** Siliciclastics: Advancing Research to Resource

**Theme 7:** Insight into Carbonates and Evaporites  
**Theme 8:** Breakthroughs: Tectonics, Salt and Basin Analysis  
**Theme 9:** Integrating New Technology, Geophysics and Subsurface Data  
**Theme 10:** Energy and Environmental Horizons  
**Theme 11:** The Next Geo-Generation: Who, What and Where

**(Theme 11) Additional Student Posters (AAPG)**  
**Exhibition Hall 8:30 a.m.–5:00 p.m.**

Co-Chairs: S. Waters and W. Hottman

- **Potential Hydrocarbon Traps in the Detachment Folds of the Dohuk Region, Kurdistan, Northern Iraq:** J. Doski, K. McClay
- **3-D Seismic Interpretation of a Meteorite Impact, Red Wing Creek Field, Williston Basin, Western North Dakota:** B. Herber
- **Source Rock Characteristics in the Green River Oil Shale, Piceance Creek Basin, Colorado – An Integrated Geochemical and Stratigraphic Analysis:** J. Feng, K. Tanavsuu-Milkeviciene, J. Sarg
- **Deposition and Diagenesis of Central Kansas Uplift Cambro-Ordovician Arbuckle Group Strata, Trego County, Kansas:** K. D. Bunger
- **Geochemical Characterization and Correlation of the Cathedral Bluffs Tongue, Southwestern Wyoming:** L. P. McHugh, J. Zonneveld, G. F. Gunnell, W. S. Bartels
- **Origin of the Mexican Ridges Passive Margin Foldbelt Based on Seismic and Well Integration from the Shelf-Slope-Deep Basin and Structural Restoration:** A. B. Rodriguez, P. Mann
- **Stratigraphic Architecture of the MacKay River Oil Sands Reservoir: Delineation of a Shoreface Shelf Tidal Sand Bar Complex Utilizing Sedimentological and Ichnological Trends:** J. M. Phillips, M. Caplan, M. Gingras, G. Pemberton
- **Reservoir Characterization of Elm Coulee Field, Richland County, Montana:** C. S. Alexandre, S. Sonnenberg, J. Sarg
- **Seismic Architecture and Topographic Controls on Pliocene Deepwater Deposits, Offshore Angola, West Africa:** K. Olafiranye, C. Jackson, D. Hodgson
- **Late Quaternary Upper Slope Deepening (Fining) Upward Sequences Offshore the Great Barrier Reef, IODP 325 Expedition:** B. B. Harper, A. W. Droxler, E. Gischler, J. M. Webster, A. P. Bernabéu, E. Herrero-Bervera, T. Lado-Insua, L. Jovane, Expedition 325 Scientists
- **Isotopic Study of Lower Permian Carbonates from the Timan-Pechora Basin, Russia:** Y. Adorno-Negron, T. D. Frank, R. W. Mitchell, W. A. Morgan

**(Theme 3) Worldwide E&P: Africa to India (AAPG)**  
**Exhibition Hall 8:30 a.m.–5:00 p.m.**

Chair: R. Hamilton

- **Petroleum System Analysis of the Mishrif Reservoir in the Ratawi, Zubair, North and South Rumaila Oil Fields, Southern Iraq:** T. K. Al-Ameri, A. Al-Khafaji, J. Zumberge

- **Challenging Innovative Approach for Testing and Development of Zubair/Ratawi Reservoirs of Sabiriyah, North Kuwait:** A. N. Khan, S. Nair
- **Jurassic Petroleum Systems in Kuwait:** A. S. Alsharhan, F. Abdullah
- **Burial Diagenesis and Petrophysical Interpretation and Its Significance in Jurassic Carbonate Reservoir Characteristics of the Middle East:** A. S. Alsharhan
- **Mapping of Fluvial Meandering Channels in Lower Eocene in Mumbai Offshore Basin, India: A New Play Through Integration of Geology and 3-D Seismic Attributes:** H. Lal, S. Biswal, S. Bhagat, A. K. Tandon, S. Mohan
- **Early Geologic Reconnaissance in Libya 1954-1955:** W. Frost, S. Chuber

**(Theme 3) Worldwide E&P: In the Americas (AAPG)**  
**Exhibition Hall 8:30 a.m.–5:00 p.m.**

Chair: B. Erlich

- **Examination of the Post-Ouachita Paleozoic Successor Basin Strata for Undiscovered Oil and Gas Resources, Arkansas, Oklahoma, and Texas, USA:** J. L. Coleman, D. W. Houseknecht, T. A. Cook, C. J. Schenk, R. R. Charpentier, T. R. Klett, R. M. Pollastro
- **Northern Gulf of Mexico Continental Margin Deformation Proposed to Be by Simple Shear with Regional Basal Horizon Terminating Under Yucatan:** A. Lowrie, R. H. Fillon
- **USGS Definition of a Greater Gulf Basin Lower Cretaceous and Upper Cretaceous Lower Cenomanian Shale Gas Assessment Unit, Gulf Coastal Plain and State Waters, USA:** K. O. Dennen, P. Hackley
- **USGS Assessment of Undiscovered Shale Gas Resources in the Lower Cretaceous Pearsall Formation, Maverick Basin, South Texas:** P. Hackley
- **USGS Assessment of Undiscovered Natural Gas Resources of the Lower Cretaceous Knowles-Calvin Gas Assessment Unit, Northern Gulf Coastal Plain, USA:** J. L. Coleman, K. O. Dennen, T. A. Cook, C. J. Schenk, R. R. Charpentier, T. R. Klett, R. M. Pollastro
- **USGS Assessment of Undiscovered Natural Gas Resources of the Ouachita Thrust Belt, Arkansas and Oklahoma, USA:** J. L. Coleman, D. W. Houseknecht, T. A. Cook, C. J. Schenk, R. R. Charpentier, T. R. Klett, R. M. Pollastro
- **Examination of the Elvins Shale Gas Assessment Unit of the Reelfoot Rift for Undiscovered Oil and Gas Resources, Missouri and Arkansas, USA:** J. L. Coleman, D. W. Houseknecht, T. A. Cook, C. J. Schenk, R. R. Charpentier, T. R. Klett, R. M. Pollastro

- **USGS Assessment of Undiscovered Oil and Gas Resources of the Cretaceous Fredericksburg-Buda Carbonate Platform-Reef Gas and Oil Assessment Unit, Gulf Coastal Plain and State Waters, USA:** S. M. Swanson, C. B. Enomoto, K. O. Dennen
- **USGS Assessment of Undiscovered Oil and Gas Resources of the Lower Cretaceous Sligo Sandstone, Eastern U.S. Gulf of Mexico Coastal Plain:** C. Doolan, A. W. Karlsen
- **USGS Assessment of Undiscovered Oil and Gas Resources for the Lower Cretaceous Sligo (Pettet) Limestone, James Limestone, and Hogg Sand Formations, U.S. Gulf of Mexico Coastal Plain and State Waters:** A. W. Karlsen, P. Hackley
- **Geologic Assessment of Undiscovered Hydrocarbon Resources in the Jurassic Norphlet and Smackover Formations of the U.S. Gulf Coast:** O. N. Pearson
- **USGS Assessment of Undiscovered Oil and Gas Resources in the Lower Cretaceous Greater Glen Rose Carbonate Shelf and Reef Interval, U.S. Onshore Lands and State Waters of the Gulf of Mexico:** P. D. Warwick
- **Hot Enough for Ya? Compilations of Heat Flow Values and Source Rock Data Along the Western Central Atlantic Margin:** W. Dickson, J. M. Christ

**(Theme 3) Worldwide E&P: Southeast Asia (AAPG)**  
**Exhibition Hall 8:30 a.m.–5:00 p.m.**

Chair: A. Cullen

- **Natural Gas Exploration Potential of BaiYun Depression, South China Sea: Implications from Gas Carbon Isotope Kinetic Modeling of Recent Discovered Gas Reservoirs:** A. Jiang, Y. Sun, J. Zhu, H. Shi, P. Chai
- **Oil Accumulation Modeling in the Young Traps During Neotectonic Movement: An Example of Tanlu Fault Zone in the Southern of Bohai Sea, China:** S. Hefeng, W. Jun, Y. Jian
- **Faults and Their Interaction in the Offshore Bohai Bay Basin: Implication for Hydrocarbon Exploration:** Y. Yu, L. Tang
- **Main Controlling Factors of Sedimentary System of Paleogene Qi'nian Fault-Step Zone, Bohai Bay Area:** D. Xiaofeng, Z. Xinhui, P. Wenxu\*
- **Oil Accumulation Modeling in the Young Traps During Fault Activation: An Example of Tanlu Fault Zone in the Southern of Bohai Sea, China:** S. Hefeng, W. Jun, Y. Jian, Z. Jinggui



- **Characteristics and Genetic Mechanism of Middle-Deep Gas Pool Pressure Evolution in Dongying Depression, Bohai Bay Basin, China:** L. Hua, J. Youlu
- **The Relationship Between Diagenesis, Porosity Evolution and Hydrocarbon Charging of Deeply Buried Sandstone Reservoirs in Dongpu Sag, Bohai Bay Basin, East China:** S. Zhang, J. Wang, H. Liu, G. Wang, Q. Li
- **Reconstruction of Burial Diagenesis by 2-D Sedimentary Simulation and Analysis of Petroleum Potential of the Upper Tertiary Sequences in Southern Ulleung Sedimentary Basin, East Sea (Sea of Japan):** D. Cheong, D. Kim
- **Exploration in Synclinal Areas of Tripura Fold Belt, India: A Re-found Opportunity:** A. K. Jena, N. C. Das, G. C. Saha, A. Samanta
- **Petroleum Geochemistry of the Gas and Condensate from the Exmouth Plateau, Northern Carnarvon Basin, Australia:** G. Sulisty, Y. Kusumanegara, D. Schmidt, S. G. Crews, J. Miller, J. Guthrie, C. Nino
- **India Deep Focus — Investigating Sub-basalt Plays Through Integration of High-Resolution Geophysical Data:** J. Gillespie, M. Cowgill, H. Davies

#### **(Theme 4) Resource Evaluation in Unconventional Systems (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Chair: R. R. Charpentier

- **Variability of Well Productivities for Continuous (Unconventional) Petroleum:** R. R. Charpentier, T. A. Cook
- **Geologic Assessment of Undiscovered Conventional and Continuous Resources of the Upper Cretaceous Austin Chalk:** K. Pearson
- **The Resource Triangle — Parsing the Continuum of Continuous Accumulations:** T. E. Ewing
- **Geology and Assessment of Undiscovered Oil and Gas Resources in the Arbuckle Group, Anadarko Basin, USA: Where is the Potential?:** S. B. Gaswirth
- **Geochemical Modeling of the Near-Surface Hydrothermal System Beneath the Southern Moat of Long Valley Caldera, California:** R. Tempel, D. Sturmer

#### **(Theme 4) Tight and Heavy Oil (EMD/AAPG)**

Exhibition Hall 8:30 a.m. - 5:00 p.m.

Chair: L. Banfield

- **Exploring for Tight Oil in the Pennsylvanian Cleveland Sandstone on the Nemaha Ridge Using High Resolution 3-D Seismic and Stratigraphic Analysis: A New Play in an Old Area:** T. Lupo, L. Krystinik
- **Surveillance Well Utility in 4-D Modeling of Oil Saturation Changes at Kern River Field, California, USA:** D. Beeson, J. Singer
- **Redefining Jordan's Oil Shale Resource; Overcoming the Challenges of Subsurface Characterisation and 3-D Modelling on a Country-Wide Level:** S. F. Kolonic, S. Neal
- **Damage Zones Associated with Second Order Faults at Depth: Observations from SAFOD and a Gas Field in Southeast Asia:** M. Johri, M. Zoback, P. Hennings

- **Joslyn Creek SAGD: Geologic Considerations Related to a Surface Steam Release Incident, Athabasca Oil Sands Area, Northeastern Alberta, Canada:** F. J. Hein, B. Fairgrieve
- **Heavy-Oil Recovery in Innovative Reservoir Micro-Models: A Comparison Between Heat and a Cost-Effective Additive on Oil Recovery:** S. Bowden, A. Hurst\*
- **Reservoir Characterization for the Application of ASP Flood Technology in the Bridgeport Sandstone in Lawrence Field, Illinois:** V. Madhavan, N. D. Webb, J. P. Grube, C. S. Blakley, B. Seyler, P. Johaneck
- **Caprock Integrity Assessment: A Case Study of Natural Fracture Characterization in Mudstones of the Clearwater Formation, Alberta, Canada:** Q. Chou, K. Gillen

#### **(Theme 5) Fractures: Natural and Hydraulic — Prediction, Observation and Performance (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: C. Jenkins and U. Hammes

- **Applying Innovative Production Modelling Techniques to Quantify Fracture Characteristics, Reservoir Properties and Well Performance in Shale Gas Reservoirs:** C. Jenkins, M. Miller, R. Rai
- **Are Rescaled Decline Curves a Solution for Shale Gas Assessment?:** J. Chatellier, B. Menard, S. Charles
- **Fracture Permeability of Shale: Effects of Roughness, Fracture Offset, Proppant, and Confining Pressure:** S. M. Kassis, C. Sondergeld
- **Field Characterization and Analog Modeling of Natural Fractures in the Woodford Shale:** H. Badra
- **The Importance of Subcritical Index for Determining Fracture Spacing in the New Albany Shale, Illinois Basin:** L. J. Fidler, J. F. Gale, J. Holder, J. E. Olson, S. E. Laubach
- **A New, Systematic Approach to Achieve Effective Completions in Unconventional Reservoirs:** C. H. Smith, E. Menendez
- **Observations of Low Frequency, Long Duration Events in a Microseismic Dataset Recorded in a Horizontal Shale Gas Well:** I. Das, M. Zoback
- **Fractures Interactions in Multistage Hydraulic Fracturing:** A. Dahi Taleghani
- **Multi-scale, Brittle-Ductile Couplets in Unconventional Gas Shales: Merging Sequence Stratigraphy and Geomechanics:** R. M. Slatt, Y. Abouseiman

#### **(Theme 5) From Reservoir to Pores and Volumes (EMD/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: S. C. Ruppel and A. Pepper

- **A Petrophysical Model to Estimate Free Gas in Organic Shales:** M. Holmes, D. Holmes, A. Holmes
- **Formation Evaluation of Barnett Shale by Kohonen Self Organizing Maps — An Example from North East Fort Worth Basin:** A. Roy, R. Perez, K. J. Marfurt

- **Quantitative Assessment of Shale Gas Potential Based on Its Special Generation and Accumulation Processes:** Y. Tang, X. Xia, K. Ferworn, J. Zumberge

#### **(Theme 6) Sequence Stratigraphy Examples in a Variety of Lithologies (SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: B. Dixon and T. Payenberg

- **Sources of Earliest Clastic Input into the Eastern Gulf of Mexico and Their Control on Reservoir Prospectivity:** A. Weislogel, T. Lovell, D. Robinson, B. W. Hunt
- **Depositional Systems and Sequence Stratigraphic Relationships of the Upper Clear Fork-Lower San Angelo Interval (Permian), Eastern Shelf, Midland Basin, Texas:** M. Horton, P. Holterhoff
- **Controls on the Distribution and Geometries of Sandstone Bodies in Platform Carbonate Systems: Examples from the Middle Permian (Guadalupian), Permian Basin, Texas:** S. C. Ruppel, R. Loucks
- **Stratigraphic Architecture of Shallow-Marine Siliciclastic Sequences in an Updip Passive-Margin Setting: Insights into the Miocene Aquifers of the Central Delmarva Peninsula:** P. P. McLaughlin, P. Martin, K. G. Miller, J. V. Browning
- **2nd- and 3rd-Order Sequence Stratigraphy, Depositional Environments, Provenance, and Diagenesis of the Supermature Eureka Quartzite and Its Equivalents, Western North America:** M. Pope, E. Baar, A. Hutto, B. D. Workman, T. Wulf
- **Stratigraphic Architecture of Shallow-Marine to Coastal-Plain Parasequences: Lower Williams Fork Formation, Southeastern Piceance Basin, Colorado:** R. V. Shaak, M. J. Pranter, E. R. Gustason
- **Sedimentological and Sequence Stratigraphic Analysis of the Marcellus Formation and Associated Strata:** D. R. Kohl, R. Slingerland, M. Arthur, T. Engelder
- **Chemostratigraphy of the Mudstone-Dominated Upper Green River Formation in the Eastern Uinta Basin of Utah:** D. Keighley
- **Student Conceptions and Misunderstandings About the Core Concepts of Sequence Stratigraphy:** J. S. Herrera, E. M. Riggs

#### **(Theme 6) Romancing the Stone: New Adventures in Sandstone Reservoir Quality (SEPM/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: T. L. Dunn, C. Macaulay and A. Ozkan

- **Chlorite Cement in Sandstone Reservoirs: Analogue Studies of Clay Formation Processes in Modern Estuaries:** G. M. Byrne, R. H. Worden, D. Hodgson
- **Spatial Diagenetic Heterogeneity of Lenticular Sandbody in Shahejie Formation, Bohai Bay Basin, China, and Its Implications for Sandstone Diagenesis:** H. Sun, D. Zhong
- **Nanopetrography, Provenance and Pore Water Geochemistry of the Lower Cretaceous Sandstone in Orange Basin, South Africa:** O. A. Fadipe, A. Akinlua, P. P. Carey, A. S. Adekola
- **Back to the Rocks: A New Petrophysical Model for Siliciclastics Engaging Old Petrological Techniques:** M. Vallee
- **Sequence-Stratigraphic Controls on Sandstone Diagenesis — An Example from the Williams Fork Formation, Piceance Basin, Colorado:** A. M. Aboktef, M. J. Pranter, D. A. Budd



- **Integrating Diagenesis and Sequence Stratigraphy for Reservoir Quality Evolution Modeling: Evidence from Fluvial and Shallow Marine Sandstones of the Cambrian-Ordovician Successions in Southwestern Sinai, Egypt:** M. Kordi, B. Turner, A. Salem
- **Difficulty Correlating Degree of Porosity Uncertainty to Gross Rock Volume: A Multiple-Zone Solution:** C. D. Norman
- **Predicting Open Natural Fractures in Unconventional Sandstone Reservoirs: Spatial Distribution, Diagenesis, Timing, and Opening Rates:** J. N. Hooker, A. Fall, G. Xu, A. L. Kaylor, H. Anh, P. Eichhubl, S. E. Laubach
- **Prerequisites, Processes, and Prediction of Chlorite Grain Coating Using Modern Estuarine Systems as Analogues:** P. J. Dowey, J. Utey, D. Hodgson, R. H. Worden

**(Theme 7) Diagenesis and Fracturing: Application of Innovative Concepts, Methods, & Tools II (SEPM/AAPG/EMD)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: J. Lonnee and E. L. Frost

- **Deposition and Diagenesis of the Ediacaran Khufai Formation, Huqf Supergroup, Oman: Preservation Potential for the Shuram Carbon Isotopic Excursion:** M. Osburn, J. Grotzinger, G. Love, K. D. Bergmann, A. Sessions
- **Reduction of Formation Energy of CaCO<sub>3</sub> by Carboxyl-Terminated Organic Template:** Q. Hu, B. Udo, J. De Yoreo
- **The Dedolomitization and Its Significance to Carbonate Diagenesis:** Z. Jie
- **Facies and Fracture Distribution in the Miocene Cariatiz Reef Complex (Sorbas Basin, SE Spain):** J. J. Reijmer, R. F. du Mée, M. J. van Goethem, F. Zwaan, M. Abd Elrahman, H. Boro, G. Bertotti
- **Fracture Characterization of the 1st Eocene, Wafra Field, Kuwait-Saudi Arabia:** M. E. Playton, V. Heesakkers, E. Flodin, W. Narr
- **Diagenesis and Fracturing of a Lower Cretaceous Arabian Shallow Water Carbonate Platform: Towards a Better Assessment of Carbonate Reservoirs Heterogeneity:** C. N. Sena, C. M. John, J. W. Cosgrove
- **Partial Dolomitization of a Pennsylvanian Limestone Buildup by Hydrothermal Fluids and Its Effect on Reservoir Quality and Performance, West Texas:** A. Saller, J. A. Dickson
- **Mississippi Valley Type (MVT) Mineralization in the Khuff “B” and “C” Reservoirs, Saudi Arabia:** R. F. Lindsay
- **Diagenesis and Porosity Evolution of a Dolomitized Paleocene-Eocene Carbonate Ramp; 1st Eocene Reservoir, Wafra Field, Partitioned Zone, Kuwait:** D. A. Pollitt, A. Saller, E. Anthonissen
- **Evolution of Ooid Porosity in the Arab Formation, Onshore Abu Dhabi (UAE):** G. Buijs, R. W. Mitchell, J. L. Whitworth, M. J. Al Mansouri
- **Dolomitization and Enhancement of Rock Properties During Burial by Hypersaline Brines. Arab C Member of the Arab Formation (Jurassic) Dolostone Reservoirs (Kingdom of Saudi Arabia):** C. Taberner, B. Wignall, A. Briner, C. Harvey, A. Azzouni, M. Braun, G. Holstege, M. Vroon
- **Application of Thermography to Karst Hydrogeology and Shale Outcrop Characterization:** H. Badra, K. Blackwood

- **Development of High-Resolution  $\delta^{13}\text{C}$  Records in Tethyan Limestones from the Anisian to Early Norian:** D. Mosher, M. Katz, G. Muttoni, D. Kent
- **Triassic Carbon Isotope Stratigraphy – Correlations Between Panthalassic and Tethyan Sections:** M. Katz, A. Mørk, A. Milligan

**(Theme 7) Lacustrine, Non-Marine and Microbialitic Carbonates and Reservoirs II (SEPM/AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: J. Lukasik, T. Playton and P. Wright

- **Petrographic and Facies Analysis of Pleistocene Travertines in Southern Tuscany, Central Italy:** F. Barilaro, G. Della Porta, M. Ripamonti, E. Capezzuoli
- **Lacustrine Microbialites in Great Salt Lake: Life in A Dead Lake:** R. Baskin, N. Driscoll, V. Wright
- **A Multi-scale Analysis and Stratigraphy of Microbialites of the Lower Ordovician of Central Missouri and Kansas:** C. Warusavitharana, W. C. Parcell
- **GPR Constraints on 3-D Stratigraphic Architecture and Porosity in Microbialite-Oolite Sequences, Upper Miocene, SE Spain:** K. M. Knoph, E. K. Franseen, R. H. Goldstein, G. P. Tsofilias, Z. Li
- **Giant Hams from the Laborcita Formation, Sacramento Mountains, New Mexico:** K. M. Moore, I. T. Gordon, B. L. Kirkland, D. W. Schmitz
- **Tufa Facies and Their Stable Isotope Record of Lake Paleohydrological Changes, Searles Lake, California:** X. Guo, H. Chafetz

**(Theme 8) New Concepts and Methods in Integrated Basin Analysis (AAPG/SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: B. Johnson, A. Danforth and M. A. Everett

- **Controls on the Syn-rift Tectono-Stratigraphic Evolution of a Salt-Influenced Rift System: The Middle-Upper Jurassic of the Halten Terrace, Offshore Mid-Norway:** G. Elliott, P. Wilson, C. Jackson, R. L. Gawthorpe, L. Michelsen, I. Sharp
- **Structural Traps Modification Associated with Foreland Lithospheric Flexure:** L. Langhi, B. N. Ciftci\*
- **Tectonostratigraphic Evolution of the Exmouth Sub-basin, NW Shelf, Western Australia:** S. Jitmahantakul, K. McClay
- **The Tarera-Aiduna Strike-Slip Fault Zone and Its Impact on Deepwater Channels Offshore West Papua, Indonesia:** G. Jones, P. Teas, J. Decker, D. Orange, L. Lonergan
- **Structural and Stratigraphic Synthesis of the Gas Trend on the Northern Shelf of Trinidad and Tobago:** S. Punnette, P. Mann
- **Nicaraguan Rise Offshore Honduras: Upper Cretaceous Source Rock May Contribute to a Proven Eocene Hydrocarbon System at Main Cape-1 in the Mosquitia Basin:** P. A. Emmet, P. Mann, R. Roberson
- **Evaluating the Role of Sediment Supply and Tectonics in Sediment Partitioning and Reservoir Distribution in the Cordilleran Foreland Basin: A Basin-Scale Analysis of the Lower Mesaverde Group, Utah and Colorado:** J. K. Rountree, J. L. Aschoff
- **Improving E&P Data Interoperability Through the Development of a Reusable Earth Science Ontology for Basin Characterization:** M. A. Everett, S. Hills, M. Gahegan, B. Whitehead, B. Brodaric

- **Evidence for Along Strike Variation in Structural**

**Style, Geometry and Its Possible Causes: A Case Study Along the UK Flank of the Faeroe-Shetland Basin (North Atlantic Margin):**

S. I. Egbeni, K. McClay, C. Johns, D. Bruce, C. Elders, G. Vey

- **Tectonic Controls on an Unconventional Sediment Transport Pathway Interpretation Used 3-D Seismic Data Analysis in Non-Marine Rift-Basin Setting: An Example from the Paleogene of Western Slope of Bozhong Sag, Bohai Bay, East China:** Z. Hongtao, Y. Xianghua, Z. Xinhuai, L. Jianping, W. Deying, L. Min
- **The PALEOMAP PaleoAtlas & PaleoClimate Atlas (ArcGIS):** C. Scotese, T. Moore

**(Theme 8) Rift Basins: Form and Fill (AAPG/SEPM)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: P. Rumelhart, K. Blackwood and R. Lyons

- **Controls on Water Balance and Facies Development in a Lacustrine Rift Basin Setting: Lake Malawi, East Africa:** R. Lyons, C. Scholz
- **Fault Development and Syn-rift Basin Structure Within the Corinth Rift, Greece:** R. Bell, L. McNeill, J. Bull, T. Henstock
- **New Insights into the Stratigraphic and Structural Development of the NE Greenland Margin:** R. Whittaker, J. Granath, M. Dinkelman
- **Normal Fault Relay Zone Geometries in the Early Gulf of Corinth Rift (Greece) and Its Application as a Hydrocarbon Exploration and Production Analogue:** A. Wood, R. Collier, D. Paton
- **Tectonic Evolution of the Albertine Graben of the East African Rift System; Constrained from Geological and Geophysical Data Recently Acquired in the Graben:** D. Abeinomugisha, F. Mugisha, N. Njabire
- **Late Cretaceous-Age, Half-Graben Basin, Turbidite Fills in the North Sea Heidrun Field, Mid-Norwegian Continental Shelf:** S. Ramnarine, L. Wood, L. Moscardelli

**(Theme 8) Salt-Related Deformation, Deposition and Petroleum Systems (AAPG)**

Exhibition Hall 8:30 a.m.–5:00 p.m.

Co-Chairs: M. G. Rowan, S. M. Holdaway and T. Hannah

- **Development and Charging of Traps Adjacent to Salt in Northern Gulf of Mexico Deepwater Subsalt Plays:** V. S. Mount, K. I. Mahon, S. H. Mentemeier, A. C. Klein
- **Regional Nophlet Formation Facies Correlation, Analysis and Implications for Paleo-Structure and Geologic Provenance, Eastern Gulf of Mexico:** B. W. Hunt, D. Robinson, A. Weislogel, T. Lovell
- **Canopy Evolution: Deformation Processes and Subsidence Patterns:** T. P. Dooley, M. P. Jackson, M. Hudec
- **Stress Rotations Around Salt Diapirs: Examples from the Gulf of Mexico Delta Systems, USA:** R. C. King, G. Backe, R. Hillis, S. Mildren, M. Tingay
- **Salt Welds in the Deepwater Gulf of Mexico – Uncertainties in the Amount of Remnant Salt: Seismic and Well Examples:** L. Liro, S. M. Holdaway
- **Laramide Episodic Documentation in Architecture and Depofacies of Viento Formation: Consequence of La Popa Salt Weld Evolution, La Popa Basin, Northeastern Mexico:** C. P. Platon, A. Weislogel



# Wednesday Morning Oral Sessions

\*Denotes presenter other than first author

- Theme 1: Molecules to Marketplace: The Business of Energy
- Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P
- Theme 3: Worldwide E&P: Opportunities in the New Decade
- Theme 4: Challenged Resource Frontiers
- Theme 5: Mudstones and Shales: Unlocking the Promise
- Theme 6: Siliciclastics: Advancing Research to Resource

- Theme 7: Insight into Carbonates and Evaporites
- Theme 8: Breakthroughs: Tectonics, Salt and Basin Analysis
- Theme 9: Integrating New Technology, Geophysics and Subsurface Data
- Theme 10: Energy and Environmental Horizons
- Theme 11: The Next Geo-Generation: Who, What and Where

**(Theme 8) Gulf of Mexico: Basement, Salt Tectonics and Depositional Systems (AAPG)**  
**General Assembly A**

Co-Chairs: M. G. Rowan, S. M. Holdaway and T. Hannah

- 8:00 **Introductory Remarks**
- 8:05 **Geologic and Geophysical Constraints on Crustal Type and Tectonic Evolution of the Gulf of Mexico:** M. I. Ross, S. S. Mukherjee, L. Kennan, G. S. Steffens, S. Barker, E. Biegert, S. Bergman, T. Petittclerc
- 8:25 **Interpretation of the Basement Step — Some Observations and Implications in the Gulf of Mexico:** S. Barker, S. S. Mukherjee
- 8:45 **The Impact of Imperfect Velocity Models and Seismic Artifacts on Interpretation of Louann Salt and Basement Structure in the Deepwater Gulf of Mexico:** S. M. Holdaway, E. Blumenthal
- 9:05 **A New Depositional Model for the Chicotepec Basin, Onshore Eastern Mexico:** S. P. Cossey, D. Van Nieuwenhuise
- 9:25 **Norphlet Aeolian Sand Fairway Established in the Deepwater Gulf of Mexico:** T. J. Godo, E. Chuparova, D. E. McKinney
- 9:45 **Break**
- 10:25 **The Pillow Fold Belt: A Key Subsalt Structural Province in the Northern Gulf of Mexico:** M. P. Jackson, T. P. Dooley, M. Hudec, A. McDonnell
- 10:45 **The Pony Discovery, Green Canyon Block 468, U.S. Gulf of Mexico: Structural Evolution and Salt Tectonics:** M. W. Kilsdonk, R. Mann\*, H. Zollinger, K. Grush, J. E. Graves
- 11:05 **Constraints on Sigsbee Salt Canopy Advancement and Its Implications for Neogene Deformation in the Northern Gulf of Mexico:** C. Connors, E. Haire, D. Howard, B. Radovich
- 11:25 **Entrained Section and Encapsulated Minibasins: Complex Allochthonous Salt Geometries in the Northern Gulf of Mexico:** M. G. Rowan, K. Inman

- 8:45 **Deciphering Depositional Controls on Shale-Gas Reservoir Distribution and Resource Density Using Detailed Sedimentology and Sequence Stratigraphy:** J. Ottmann, K. Bohacs\*, R. Lazar, T. Demko, J. Flaum, J. Kalbas
- 9:05 **Primary Depositional Controls on Shale Gas/Shale Oil Potential in the U.S.: A Global Sequence Stratigraphic Perspective:** A. C. Messer, W. L. Prendergast, O. E. Sutcliffe, M. A. Reynald
- 9:25 **Reconstructing a Source Rock System — Silurian Onlap in Time and Space:** P. Spaak
- 9:45 **Break**
- 10:25 **Sequence Stratigraphy as Expressed by Shale Source Rock and Reservoir Characteristics — Examples from the Devonian Succession, Appalachian Basin:** G. Lash, R. Blood
- 10:45 **Algal Cysts in the Marcellus Shale (Middle Devonian), Appalachian Basin: The Impact of Algal Blooms on Gas Shale Reservoirs:** J. Zhou, P. Rush, R. Miller
- 11:05 **Expression of Sea Level Cycles in a Black Shale: Woodford Shale, Permian Basin:** N. B. Harris
- 11:25 **Offshore Transport of Mud by Combined Flows: Upper Cretaceous, Western Interior Seaway, Northern Alberta, Canada:** J. Macquaker, G. Plint

**(Theme 5) Fractures: Natural and Hydraulic — Prediction, Observation and Performance (EMD/AAPG)**

General Assembly C

Co-Chairs: C. Jenkins and U. Hammes

- 8:00 **Introductory Remarks**
- 8:05 **Predicting Fracability in Shale Reservoirs:** J. Breyer, H. Alsleben, M. B. Enderlin
- 8:25 **Compositional and Textural Variability of Shales as Hindrance to Understanding Shale Fracturing:** R. P. George, M. W. Deacon
- 8:45 **Hydraulic Fracture and Natural Fracture Simulation for Improved Shale Gas Development:** W. Dershowitz, R. Ambrose, D. Lim, M. Cottrell
- 9:05 **Natural Fractures in Shales: Timing, Sealing, Mechanisms of Formation, and Relevance for Shale-Gas Reservoirs:** J. F. Gale, P. Eichhubl, A. Fall, S. E. Laubach
- 9:25 **The Role of Strain in Controlling Orientation of Natural Hydraulic Fractures in Gas Shales:** T. Engelder
- 9:45 **Break**
- 10:25 **Issues in Estimating Horizontal Stress with Poroelastic Models:** K. Katahara

- 10:45 **Overpressure in Shale Gas — When Geochemistry and Engineering Data Meet and Agree:** J. Chatellier, K. Ferworn, N. Lazreg Larsen, S. Ko, P. Flek, M. Molgat, I. Anderson
- 11:05 **Microseismic Monitoring Reveals Natural Fracture Networks:** S. Goldstein, M. Seibel, T. Urbancic
- 11:25 **Future of Microseismic Analysis — Integration of Monitoring and Reservoir Simulation:** L. Eisner, V. Grechka, S. Williams-Stroud\*

**(Theme 2) Prediction of Deepwater Stratigraphic Uncertainty: Quantification, Characterization and Modeling II (AAPG/SEPM)**

Room 342

Co-Chairs: B. Dixon and D. Pyles

- 8:00 **Introductory Remarks**
- 8:05 **A 60-Kilometer-Long Architectural Transition from Slope Valley to Terminal Lobe: Unit C, Fort Brown Formation, Karoo Basin, South Africa:** R. Brunt, W. Van der Merwe, C. Di Celma, D. Hodgson, S. Flint
- 8:25 **Shelf-Slope Sedimentary Prism Development and Changing Deepwater Sand Distribution Pattern: Eocene Tye Forearc Basin, Oregon:** M. Santra, R. Steel, M. L. Sweet
- 8:45 **Architecture of a Modern Transient Slope Fan (Villafranca Fan, Gioia Basin — Southeastern Tyrrhenian Sea):** F. Gamberi, M. Rovere
- 9:05 **Two Fundamentally Different Types of Submarine Canyons: Modern and Ancient Examples from the Continental Margin of Equatorial Guinea, West Africa:** Z. R. Jobe, D. Lowe, S. Uchytel
- 9:25 **Exploration Scale Analysis of Down Dip and Across Slope Stratigraphic Variations in a Multiple Feeder Deepwater System, Karoo Basin, South Africa:** W. Van der Merwe, R. Brunt, D. Hodgson, S. Flint, J. Kavanagh
- 9:45 **Break**
- 10:25 **Examining Deepwater Channel-Levee Development with High-Resolution Seafloor Data: Insights from the Lucia Chica System, Offshore Central California:** K. L. Maier, A. Fildani, B. Romans, C. K. Paull, S. Graham, T. McHargue, D. Caress, M. McGann
- 10:45 **Stratal Patterns in Salt-Withdrawal Minibasins: Simple Modeling and Implications for Reservoir Prediction:** Z. Sylvester, A. Cantelli, C. Pirmez
- 11:05 **Using a Numerical Forward Model to Investigate Stratigraphic Onlap Traps in a Deepwater Field. Marlim Case Study:** A. Cantelli, C. Pirmez, J. Imran
- 11:25 **Contourite Sheet Sands: New Deepwater Exploration Target:** D. Stow, R. Brackenridge, J. Hernandez-Molina



### (Theme 4) New Insights from Key Tight-Gas Provinces (EMD/AAPG)

Room 351

Co-Chairs: S. Cumella and J. Robinson

8:00 Introductory Remarks

8:05 Reducing Uncertainty in a Basin Centred Gas System; Designing an Intense Data Collection Program: P. H. Benham, M. Argument, S. F. Jones\*, L. A. Teterenko, J. S. Chavarria

8:25 TBD

8:45 Understanding Production Performance at Pinedale from a Geological Perspective: M. A. Chapin, A. Govert, G. Ugueto, N. Brandon, G. Diomampo, C. Fleming

9:05 Understanding Controls on Produced Fluid Properties at Pinedale: A. Bishop, E. Inan, T. Bryndzia, C. Beck Brake, E. Idiz, I. Novosel, C. Buker, M. Chapin, G. Ugueto

9:25 Gas Geochemistry in Tight-Gas-Sand Reservoirs of the Rocky Mountains; Results of a Multivariate Field Study: N. B. Harris, Q. Xiao, P. Philp, C. Ballentine

9:45 Break

10:25 The Role of Natural and Hydraulic Fracturing and Matrix Rock Properties in Controlling Gas and Water Production from Tight Gas Sands in the Piceance Basin, Colorado, USA: R. James, S. Atan, P. Brown, J. Chen, D. Eubanks, D. Mack, E. Yang

10:45 Geomechanical Controls on the Gas Production in the North Parachute Area, Colorado: P. Paul, T. Neely, T. Allwardt, P. Hennings, J. McLennan, R. Reid, D. Brown

11:05 Exploration for the Arkansas Novaculite Reservoir, in the Southern Ouachita Mountains, Arkansas: T. J. Godo, P. Li, M. E. Ratchford

11:25 Testing the Basin-Centered Gas Model Using Fluid Inclusion Observations: A. Fall, P. Eichhubl, R. J. Bodnar, S. E. Laubach

### (Theme 7) Diagenesis and Fracturing: Application of Innovative Concepts, Methods & Tools I (SEPM/AAPG/EMD)

Room 360

Co-Chairs: D. A. Budd and S. E. Kaczmarek

8:00 Introductory Remarks

8:05 Clumped-Isotope Thermometry: A New Tool to Delineate Diagenetic Temperatures and Fluids of Calcite Phases: D. A. Budd, K. W. Huntington, E. L. Frost

8:25 Carbonate Clumped Isotope Thermometry: A Tool for Investigating Carbonate Burial Diagenesis: K. D. Bergmann, J. Grotzinger, D. A. Katz, J. M. Eiler

8:45 Magnesium Isotopes in Dolomites — Results for the Paleozoic of Eastern Canada and Significance for Exploration Models: D. Lavoie, S. Jackson, I. Girard

9:05 Late-Stage Diagenesis and Bacterial Sulfate Reduction in the 1st Eocene Reservoir, Wafra Field, Partitioned Zone, Kuwait: A. Saller, D. A. Pollitt, J. A. Dickson

9:25 Cavernous Porosity Development and Mississippi Valley-Type Mineralization as Recorders of Multi-sourced Diagenetic Waters Migrating Through the Ordovician Galena Group Limestone (Trenton), Kane County, NE Illinois, USA: J. T. Freiburg

9:45 Break

10:25 Visualization and Quantification of Fracture-Related Karst in Barremian Limestones, Cassis, France: K. Pomar, G. P. Eberli\*, M. Grasmueck, J. Lamarche

10:45 Tracking and Quantifying Fluid Flow in a Fractured Carbonate Reservoir with 4-D Ground Penetrating Radar (GPR): P. Marchesini, M. Grasmueck, G. P. Eberli, R. L. Van Dam

11:05 Platform-Scale Fracture Patterns in Atoll-Like Carbonate Platforms: The Latemar Case Study (Dolomites, Italy): G. Bertotti, H. Boro, F. Beekman

11:25 Hydrothermal Dolomites Along Faults/Fractures in the Aptian-Albian Platform Carbonates (Karrantza Valley, N.W. Spain): Petrographic/Geochemical Studies and Their Numerical Modelling: M. M. Shah, F. H. Nader, R. Swennen, D. Garcia

### (Theme 10) CO<sub>2</sub> Capture and Sequestration (DEG)

Room 361

Chair: G. Blount

8:00 Introductory Remarks

8:05 Evaluation of CO<sub>2</sub> Sequestration Potential in Ozark Plateau Aquifer System (OPAS) in Southern Kansas — Initial Studies: W. L. Watney, S. Bhattacharya, P. Gerlach, J. Rush, T. Hansen, L. Nicholson, J. Doveton, A. Smith, D. Hedke, S. Nissen, A. Raef, J. Xia, D. Koger, R. Baker, J. Victorine

8:25 The Effect of Natural CO<sub>2</sub> Occurrence on CO<sub>2</sub> Storage in Geological Formations: Y. Xiao, G. Macleod, D. Advocate, C. Reaves, R. Pottorf

8:45 Reinterpretation of the "J" Basalt Reflector from Seismic Data Reprocessing Across the Coastal Plain of Southeastern Georgia: Potential Implications for Long-Term CO<sub>2</sub> Sequestration: O. M. Akintunde, C. Knapp, J. H. Knapp, D. M. Heffner, J. Shafer

9:05 Uncertainty Analysis of Storage Resource Estimates for CO<sub>2</sub> Sequestration in Saline Formations: O. H. Popova, S. T. McCoy, B. Karimi, M. Small, A. C. Thomas, M. Morgan

9:25 Controls on Porosity and Permeability Within the Carmel Formation: Implications for Carbon Sequestration: W. G. Payne, P. S. Mozley, D. A. Sprinkel, A. R. Campbell

9:45 Break

10:25 Geochemical Monitoring During the CO<sub>2</sub> Injection Test at Lost Hill, California: D. R. Cole, M. F. Morea, B. Kennedy

10:45 Laboratory and Numerical Geochemical Modeling of CO<sub>2</sub> Injection at Powder River Basin: Y. Holubnyak, S. B. Hawthorne, B. A. Mibeck, D. J. Miller, J. M. Bremer, S. A. Smith, J. A. Sorensen, E. N. Steadman, J. A. Harju

11:05 Coupled Reactive Flow and Transport Modeling of CO<sub>2</sub> Sequestration in the Mount Simon Sandstone Formation, Midwest USA: F. Liu, P. Lu, C. Zhu, Y. Xiao

11:25 3-D Geologic Modeling Toward a Site-Specific CO<sub>2</sub> Injection Simulation: J. Zeng, C. L. Liner, P. Geng, H. King

### (Theme 9) Seismic Visualization & Attributes (AAPG)

Room 370

Co-Chairs: R. Keach and T. R. Lane

8:00 Introductory Remarks

8:05 Integration of Coherence and Volumetric Curvature Attributes: S. Chopra, K. J. Marfurt

8:25 3-D Seismic Characterization of Zubair Pay Sands of Sabiriyah Field, North Kuwait, Kuwait: M. Syed, A. N. Khan, S. Nair

8:45 Seismic Attribute Mapping for Identification of Cypress Sands, Illinois Basin, Indiana, USA: M. R. Yenugu, K. J. Marfurt, C. Wickstrom, S. Matson

9:05 Predicting Hydraulically Induced Fractures Using Acoustic Impedance Inversion Volumes: A Barnett Shale Formation Example: X. E. Refunjol, J. H. Le Calvez, K. J. Marfurt

9:25 Implications of 3-D Domain Transformation for Structural and Stratigraphic Interpretation: G. A. Dorn

9:45 Break

10:25 Application of Spectral Decomposition Technique in Reservoir Exploration in the Junggar Basin of West China: C. Gang, S. Mingjun, Y. Qingzhou, G. Honglin

10:45 Application of Spectral Decomposition in an East Cameron Offshore Area, Northern Gulf of Mexico: A. D. Welshhans

11:05 Look Within Your Wavelet: 3-D Seismic Analysis Workflows to Investigate Subtle Stratigraphy: A. Henning, G. Paton

11:25 Use of 3-D Seismic Inversion Data in Gas Exploration: An Example from the Arkoma Basin, Southeastern Oklahoma: I. Cemen, C. Hager, R. Gertson, J. Fuchs



# Wednesday Afternoon Oral Sessions

\*Denotes presenter other than first author

- Theme 1: Molecules to Marketplace: The Business of Energy
- Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P
- Theme 3: Worldwide E&P: Opportunities in the New Decade
- Theme 4: Challenged Resource Frontiers
- Theme 5: Mudstones and Shales: Unlocking the Promise
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- Theme 7: Insight into Carbonates and Evaporites
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- Theme 9: Integrating New Technology, Geophysics and Subsurface Data
- Theme 10: Energy and Environmental Horizons
- Theme 11: The Next Geo-Generation: Who, What and Where

## **(Theme 8) South Atlantic Exploration (AAPG)**

General Assembly A

Co-Chairs: J. M. Francis, R. Eisenberg and B. Prather

- 1:15 Introductory Remarks
- 1:20 An Entirely New 3-D View of the Crustal and Mantle Structure of a South Atlantic Passive Margin – Santos, Campos and Espírito Santo Basins, Brazil: P. V. Zalán, M. G. Severino, C. A. Rigoti, L. P. Magnavita, J. B. Oliveira, A. R. Viana
- 1:40 Synrift Tectonic Domains in South Atlantic Salt Basins: Observations from Long-Offset Deep Seismic Data Combined with Plate Reconstructions Allow for Comparisons of Regional Extension Along West Africa and Brazil Continental Margins: I. Norton, M. Dinkelman
- 2:00 Detached Micros-Continents Offshore Southern Brazil: Crustal Thickness from Gravity Inversion and Plate Reconstructions: A. Alvey, N. J. Kuszniir, A. M. Roberts
- 2:20 Mapping the Northern South Atlantic Continental-Oceanic Boundary: Rift to Early Drift Along Extensional and Strike Slip Margins: S. G. Henry, N. Kumar, A. Danforth, P. Nuttall, S. Venkatraman
- 2:40 Reconstructing Aptian Evaporite Basin Geometry: Implications for Pre-evaporite Facies Distribution in the Santos and Campos Basins, Brazil: T. M. Laroche, J. M. Francis, C. A. Guzowski, R. Eisenberg
- 3:00 Break
- 3:40 Salt Deposition, Loading and Gravity Drainage in the Campos and Santos Salt Basin, Southern Brazil: I. Davison, L. Anderson, P. Nuttall
- 4:00 TBD
- 4:20 Stratigraphic Architecture, Distribution, and Quality of Pre-salt Lacustrine Source Rocks of the Greater Campos Basin, Offshore Brazil: J. Guthrie, J. Hohman, S. G. Crews, C. Nino, O. Lopez Gamundi
- 4:40 Impact of Albian Tectono-Stratigraphy on Upper Cretaceous Plays in the Deep Ivorian Basin, Gulf of Guinea, West Africa: A. Peterhänsel, A. Akhmetzhanov, Z. Schleder, G. Toropov, C. H. Bradley, M. Neese, R. Wallace, G. Gauly, G. N'Dri

## **Forum: Shale Plays: Technical Examination of Today's Reality and Tomorrow's Future (EMD)**

General Assembly B

Co-Chairs: P. Basinski and K. Shanley

See Summary Page 5

1:15p.m.–5:05 p.m.

## **(Theme 2) Deepwater E&P: Gulf of Mexico (AAPG/SEPM)**

General Assembly C

Co-Chairs: R. Abegg and C. J. O'Byrne, P. Dillett

- 1:15 Introductory Remarks
- 1:20 Three Cenozoic Megasequences in the Northwestern Gulf of Mexico: Depocenters, Sandstone Composition, and Hinterland Tectonic Phases: C. D. Winker, T. Diggs, N. R. Braunsdorf
- 1:40 Reservoir Geology of Mensa Field After 13 years of Production, Deepwater Gulf of Mexico (GOM): P. Bilinski, M. Razi
- 2:00 The Pony Discovery, Green Canyon Block 468, U.S. Gulf of Mexico: Depositional Facies and Reservoir Architecture of Miocene Turbidite Reservoirs: C. R. Handford, S. Carney, G. Perov, G. Ellis, T. C. Huang, R. Beaubouef
- 2:20 Reducing Reservoir Uncertainty in a Phased Development – Tahiti Field, Deepwater Gulf of Mexico, USA: T. Billiter, J. Bretches, W. Clark, B. Goff, R. Guillory, S. Hanrahan, J. Heltz, T. Hudson, N. Rivera, C. Picornell, G. Rowland, M. Sawyer, A. M. Swanston, D. M. Tatum\*, R. D. Wiggins
- 2:40 Reservoir Characterization of the Big Foot Deepwater Confined Sheet System: J. Borges, R. T. Mooney, L. Zarra, R. Boehme, S. Smith, R. Dvoretzky, M. D. Sullivan
- 3:00 Break
- 3:40 Gulf of Mexico Wilcox Tectonostratigraphic Model and Paleogeography: E. Gomez, M. A. Hollanders, B. Prather, J. C. Jimenez
- 4:00 Great White "WM12" Reservoir: A New Development in the Ultra-Deepwater, Perdido Fold Belt, Gulf of Mexico: M. Medeiros, R. Li, B. McKee, J. Piefer, T. Stroud
- 4:20 Very Large Oligocene Age Frio Reservoirs at Great White Field in the Ultra-Deepwater of the Gulf of Mexico Offer Significant Development Challenges and Long-Term Growth Potential: V. Eikrem, J. Thompson, B. McKee, R. Li, J. Keller, Y. Hamilton, G. Gray
- 4:40 Silvertip Field Development in the Ultra-Deepwater, Perdido Foldbelt, Gulf of Mexico: V. Eikrem, O. Kostenko\*, M. Medeiros, T. Stroud, Y. Gonzalez, G. Gray, R. Li, J. Hamilton

## **Forum: The Deepwater Horizon/Macondo Well Oil Spill – Understanding the Impact (DEG)**

Room 342

Co-Chairs: M. Foss and D. Nieuwenhuise

See Summary Page 5

- 1:15 Introductory Remarks
- 1:20 Overview and Perspective on Media Coverage: D. Nieuwenhuise
- 1:40 Gulf of Mexico Circulation and Oil Transport Pathways: P. Brickley, P. Coholan, A. Gangopadhyay, J. Feeney
- 2:00 Overview of Deepwater Horizon Surface Oil Motion Based on Satellite Imagery: N. D. Walker, C. Pillley, V. Raghunathan, H. Graber, R. Turner
- 2:20 Deepwater Horizon: Coastal Ocean to Marsh Margin Sedimentary Impacts: K. M. Yeager, C. A. Brunner, K. B. Briggs, P. Louchouart, L. Guo, V. Asper, K. J. Schindler, K. M. Martin, J. Prouhet, N. Couey, C. Fortner
- 2:40 The Importance of Time and Space: Understanding the Ecological Impacts of the Macondo Spill: J. R. Wozniak
- 3:00 Break
- 3:20 Coastal Engineering Responses to the Spill, More Harm than Good?: R. Young
- 3:40 Government & Economic Issues: M. Foss
- 4:00 Panel Discussion

## **(Theme 6) Romancing the Stone: New Adventures in Sandstone Reservoir Quality (SEPM/AAPG)**

Room 351

Co-Chairs: T. L. Dunn, C. Macaulay and A. Ozkan

- 1:15 Introductory Remarks
- 1:20 Stylolites; Their Origin and Impact on Reservoir Quality: J. Hamilton, S. Reddy, H. Olierook, N. Timms
- 1:40 Intergranular Pressure Solution During the Diagenesis of Sandstone: Conditions and Controlling Factors: W. He, D. Sparks, A. Hajash
- 2:00 Quantification of Effects of Cementation on Subcritical Crack Index by Comparison of Outcrop and Subsurface Samples of Williams Fork Formation, Piceance Basin: A. Ozkan, K. Milliken, S. E. Laubach, J. E. Olson, J. Holder
- 2:20 The Role of Paragenetic Patterns on the Quality of Clastic Reservoirs: L. F. De Ros, K. Goldberg, A. R. Elias
- 2:40 Regional Composition and Reservoir Quality of Wilcox Sandstones, Northwest Gulf of Mexico: S. P. Dutton, R. Loucks, R. Day-Stirrat
- 3:00 Break
- 3:40 Hydrodynamic Fractionation of Minerals and Textures in Submarine Fans: Implications for the Prediction of Reservoir Quality: J. Stammer, D. Pyles, A. Fleming, J. Clark, M. D. Sullivan, G. Gordon, J. D. Moody



- 4:00 **Low Temperature Porosity Preserving Microquartz from Upper Cretaceous Sandstones of the Subhercynian Basin (Germany):** M. French, R. H. Worden, E. Mariani, W. C. Horn, C. E. Kliewer, W. A. Lamberti, R. R. Mueller, C. Fischer
- 4:20 **Depositional and Facies Controls on Infiltrated/Inherited Clay Coatings: Unayzah Sandstones; Saudi Arabia:** S. Shammari, S. Franks, O. Soliman
- 4:40 **How Clay Grain Coats Inhibit Quartz Cement and Preserve Deep Sandstone Porosity: Some Experimental Observations:** J. M. Ajdukiewicz, R. E. Larese

**(Theme 7) Lacustrine, Non-Marine and Microbialitic Carbonates and Reservoirs I (SEPM/AAPG)**

Room 360

Co-Chairs: J. Lukasik, T. Playton and P. Wright

- 1:15 **Introductory Remarks**
- 1:20 **Reservoir Architectures in Non-Marine Carbonates:** V. P. Wright
- 1:40 **Non-Marine Carbonates — Facies, Diagenesis and Porosity Development:** G. Della Porta, F. Barilaro, M. Ripamonti
- 2:00 **Major Characteristics of Lacustrine Stromatolites:** S. M. Awramik, H. Buchheim
- 2:20 **Lacustrine Carbonates and Evaporites — Facies Evolution and Diagenesis: Eocene Green River Formation, Piceance Creek Basin, Colorado:** N. Suriamin, J. Sarg\*, K. Tanavsuu-Milkeviciene
- 2:40 **Pore Characteristics in Microbial Carbonate Reservoirs:** W. M. Ahr, E. A. Mancini, W. C. Parcell
- 3:00 **Break**
- 3:40 **Reservoir Facies Distribution and Pore Types of Dolomitized Microbialite Reservoirs of the Ara Group, Sultanate of Oman:** J. Grotzinger, Z. Rawahi
- 4:00 **Depositional Settings for Upper Jurassic and Lower Cretaceous Microbial Carbonate Buildups and Associated Reservoir Facies, Northern Gulf of Mexico:** E. A. Mancini, W. M. Ahr, W. C. Parcell
- 4:20 **Late Rift South Atlantic Pre-salt Carbonate Sequence Stratigraphy:** F. R. Love

- 4:40 **Outcrop Analogue of Pre-salt Microbial Series from South Atlantic: The Yacoraite Formation, Salta Rift System (NW Argentina):** S. Rohais, Y. Hamon, R. Deschamps

**(Theme 8) Breakthroughs in Petroleum Systems Modeling & Geochemistry (AAPG)**

Room 361

Co-Chairs: R. Tscherny, F. Mosca and D. Curry

- 1:15 **Introductory Remarks**
- 1:20 **Magnetic Characterisation of Oil Sands and Well Cores:** S. Emmerton, A. R. Muxworthy, M. Sephton
- 1:40 **On the Cracking of Oil to Gas in Source Rocks and Reservoirs:** V. Dieckmann, O. Podlaha, M. Keym, A. Bell, J. Westrich
- 2:00 **Hydrocarbon Bitumen in Deepwater Gulf of Mexico — An Integrated Petroleum Systems and Geomechanics Perspective:** J. Huang, S. G. Crews, K. Grush, G. Han, G. Sulisty
- 2:20 **Petroleum Systems Analysis in the Gulf of Mexico — From Regional Framework to Predicting Fluid and Rock Properties:** K. R. Leischner, E. Chuparova, A. Bishop, D. E. McKinney, T. Taylor
- 2:40 **The Pony Discovery, Green Canyon Block 468, U.S. Gulf of Mexico: Regional Three-Dimensional Hydrocarbon Migration Modeling:** S. G. Crews, J. Huang, D. E. Ballentine
- 3:00 **Break**
- 3:40 **Heat Flow History in the Chukchi Sea — Mega-Regional Tectonics, Local Heat Flow and Charge Implications:** M. Kacewicz, M. Roberts, J. Stowe, T. M. Laroche, J. Curiale, B. Johnson, C. Weaver, V. LeMieux
- 4:00 **Identification and Quantification of Paleotrap During Petroleum System Assessments:** D. A. Wavrek, D. Schelling, R. Sbarra, D. Hall, D. Strickland, A. Hansen
- 4:20 **Intrinsic Fault Seal Uncertainties in Hydrocarbon Migration Analysis:** Ø. Sylta, A. Tømmerås
- 4:40 **Basin Modeling in Complex Setting: New Developments and Workflows:** J. Laigle, I. Faille, M. Thibaut, J. Lecompte, M. Cacas, J. Callot

**(Theme 6) Facies Models of Fluvial Systems: 50 Years On II (SEPM)**

Room 370

Co-Chairs: J. Holbrook, T. Payenberg and G. Hampson

- 1:15 **Introductory Remarks**
- 1:20 **Characterizing Overbank Deposits for Use in Fluvial Reservoir Models:** J. D. Moody, B. Bracken, D. Pyles, G. Ford, K. Sendziak, B. Willis, T. Payenberg
- 1:40 **Distributive Fluvial Systems in the Continental Rock Record: Implications for Reservoir Development in Alluvial Systems:** A. J. Hartley, G. S. Weissmann, S. Davidson, G. Nichols, L. Scuderi, A. Kulikova
- 2:00 **Facies Assemblages on Distributive Fluvial Systems:** S. Davidson, A. Hartley, G. S. Weissmann, G. Nichols, L. Scuderi
- 2:20 **Controls on Fluvial Reservoir Architecture: Insights from the Blackhawk Formation Outcrop Belt, Wasatch Plateau, Utah:** G. Hampson, R. Gani, T. Jewell, H. Sahoo, A. Ranson, N. Irfan
- 2:40 **Controls on Fluvial Channel Belt Architecture from the Cretaceous Blackhawk Formation of Eastern Utah:** A. Rittersbacher, J. A. Howell, S. J. Buckley
- 3:00 **Break**
- 3:40 **Fluvial Stratigraphic and Reservoir Architectures Using Outcrop Analogs in the Cretaceous Straight Cliffs Formation, Southern Utah: Revised Depositional Models and Synthetic Seismic Modeling:** C. Johnson, J. Gooley, E. Sandoval
- 4:00 **Fluvial Sand Body Architecture in the Lower Beaufort Group, Karoo Basin, South Africa:** A. Wilson, S. Flint, J. Vermeulen, T. Payenberg, A. Palfrey, A. Mistry
- 4:20 **Seismic Geomorphology and Stratigraphy of Distributary Channels and Incised Valleys of the Mungaroo Delta Plain, Wa-390-P, Exmouth Plateau, North Carnarvon Basin, Western Australia:** J. Minken, J. Miller, Y. Kusumanegara, D. Griffin
- 4:40 **Fluvial Stratigraphic Architecture of the Jurassic Monach Formation, NW Alberta, Canada: Implications for Tight Gas Reservoir Delineation:** R. Kukulski, S. M. Hubbard, K. M. Raines, T. Moslow



# Wednesday Morning Poster Sessions

Presenters in their Booths 9:30 a.m.–10:30 a.m. /// \*Denotes presenter other than first author

Theme 1: Molecules to Marketplace: The Business of Energy  
Theme 2: Global Deepwater Reservoirs: Giant Leaps in E&P  
Theme 3: Worldwide E&P: Opportunities in the New Decade  
Theme 4: Challenged Resource Frontiers  
Theme 5: Mudstones and Shales: Unlocking the Promise  
Theme 6: Siliciclastics: Advancing Research to Resource

Theme 7: Insight into Carbonates and Evaporites  
Theme 8: Breakthroughs: Tectonics, Salt and Basin Analysis  
Theme 9: Integrating New Technology, Geophysics and Subsurface Data  
Theme 10: Energy and Environmental Horizons  
Theme 11: The Next Geo-Generation: Who, What and Where

## (Theme 5) Global Active and Emerging Plays (EMD/AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chair: J. Breyer and J. Szurkowska

- **Geomechanical, Petrophysical and Rock Physics Characterisation of a Global Suite of Shales: Results and Learnings:** D. Dewhurst, M. B. Clennell, T. Siggins, A. Borysenko, M. Raven, J. Sarout, C. Delle Piane, M. Josh, L. Esteban
- **Geochemical Investigation of Tanezzuft Formation, Murzuq Basin, Libya:** T. Hodairi, P. Philp
- **Shale Gas Prospectivity in South Australia:** S. Menpes, A. J. Hill, A. Siasitorbaty
- **The Horton Bluff Formation Gas Shale Opportunity, Nova Scotia, Canada:** A. MacDonald

## (Theme 5) U.S. Active and Emerging Plays I (EMD/AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: R. Hill and S. Brown

- **Carbon and Hydrogen Isotope Systematics in Gases from Horizontal Bakken Shale Wells:** M. Schoell, J. LeFever
- **Characterization of Unconventional Shale Gas Reservoirs Using a Shale Gas Facies Expert System to Identify Lithofacies and Optimal Completion Intervals:** A. Mitra, D. Warrington, A. Sommer
- **Facies and Lithostratigraphy of the Upper Cretaceous (Turonian-Cenomanian) Eagle Ford Formation, Central and South Texas:** R. Harbor, S. C. Ruppel, T. Hentz
- **Methodology for More Accurate Measurement of Vitrinite Reflectance in Black Shales with Examples from the Bakken, Woodford, and Eagle Ford:** J. Newman, J. Edman\*, J. Pitman, J. LeFever
- **Dating Diagenetic Events in the Barnett and Marcellus Shale: Evidence from Paleomagnetic, Petrographic, and Geochemical Analysis:** J. C. Deng, E. B. Manning, D. P. Dennie, S. Pannalal, R. Elmore
- **Integrated Reservoir Characterization of Barnett Shale Gas: Defining the Stratigraphic Influences on Production:** B. Jia, B. Hart
- **Evaluating the Gas Shale Potential of the Hilliard/Baxter Formation in the Green River Basin, Wyoming:** I. Novosel, C. Buker\*, A. S. Kornacki, V. Dieckmann
- **Fractures, Veins, Fluid Migration and Hydrocarbon Generation in the Utica Shale, Northern Appalachian Basin, New York:** J. Colborne, J. Michaels, B. Selleck\*

- **The Downside of Using GR to Determine TOC Content: An Example from the Marcellus Shale in SE West Virginia:** K. A. Bowker, T. Grace
- **Middle Bakken Facies, Williston Basin, USA: A Key to Prolific Production:** S. Sonnenberg, J. Sarg, J. Vickery
- **Bakken Mudrocks of the Williston Basin, World Class Source Rocks:** S. Sonnenberg, J. Sarg, H. Jin
- **Characterization of Devonian Shale Formations in the Appalachian Basin:** T. H. Mroz, D. Crandall, K. McDannal, J. Landis

## (Theme 5) U.S. Active and Emerging Plays II (EMD/AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: R. Hill and S. Brown

- **Open-System Chemical Behavior in Deep Wilcox Group Mudstones, Texas Gulf Coast, USA:** R. J. Day-Stirrat, K. L. Milliken, S. P. Dutton, R. Loucks, S. Hillier, A. C. Aplin, A. M. Schleicher
- **Appalachian Basin Database for Devonian Gas Shales:** R. C. Milici, R. T. Ryder, F. T. Dulong
- **Undiscovered Petroleum Resources for the Woodford Shale and Thirteen Finger Limestone-Atoka Shale, Anadarko Basin:** D. K. Higley
- **Produced Gas Composition Variations and Its Relationship to Sequence Stratigraphy and Structural Complexity of the Marcellus Shale:** A. S. Douds
- **A Preliminary Diagenetic and Paleomagnetic Study of the Fayetteville Shale, Arkansas:** S. E. Farzaneh, K. M. Hulsey, S. Pannalal, R. Elmore
- **Analysis of Reservoir Heterogeneity and Applications of Representative Core Sampling for Gas Shale Characterization:** R. Suarez-Rivera, A. Ghassemi, S. Marino, H. R. Morales
- **Chemostratigraphic Studies of the Marcellus Shale by Handheld X-ray Fluorescence (HHXRF) Analysis:** C. N. Smith, A. Malicse

## (Theme 6) Shallow Marine Systems and Processes: A Tribute to Roger Walker and Gerry Middleton I (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: J. Bhattacharya and B. Willis

- **Animal-Sediment Interactions and Trace Assemblages on the Asymmetrical Fraser River Delta Front and Prodelta, British Columbia, Canada:** K. Ayranci, S. E. Dashtgard

- **Seismic Facies Architecture of a Recent Shelf Margin: Implications for Exploration of Ancient Shelf Edge Deltas:** D. McPherson, M. DiMarco, B. Prather, R. Steel
- **Stratigraphy and Internal Architecture of the Wave-Dominated Gum Hollow Delta, Nueces Bay, Texas: Implications for Architecture Scaling and Recording Paleo-Storminess in the Northwestern Gulf of Mexico:** S. P. Miller, J. R. Garrison, A. M. Mestas-Nuñez, T. M. Dellapenna, J. R. Williams
- **Turonian Tidal Inlet Architecture and Ichnological Signature, Upper Ferron Sandstone, Central Utah:** M. R. King, G. Pemberton, M. Gingras, R. Bistran
- **Bioturbation and Its Effects on Permeability in Wave-Dominated Shoreface Rocks of the Spring Canyon Member, Blackhawk Formation, Utah, USA:** L. B. Dabek, R. Knepp
- **Facies-Belt Pinch-Out Relationships in a Distal, Mixed-Influence Shallow-Marine Reservoir Analogue: Lower Sego Sandstone Member, Western Colorado, USA:** B. Legler, V. Stacey, B. Massart, H. D. Johnson, G. J. Hampson, C. Jackson, M. D. Jackson, R. Ravnas, M. Sarginson
- **Stratigraphic Evolution of High Relief Slope Clinofolds from Shelf-Edge to Basin Floor, Magallanes Basin, Chile:** D. B. Bauer, S. M. Hubbard
- **Facies Variability in Shelf-Edge Strata of the Lower Kookfontein Formation, Tanqua Karoo Basin, South Africa: An Analog for Reservoir Heterogeneity in Shelf-Edge Settings:** J. Dixon, R. Steel
- **Tectonic and Eustatic Controls on Deposition of the Harmon, Cadotte and Paddy Members of the Albian Peace River Formation, Alberta and British Columbia, Canada:** R. A. Buckley, G. Plint
- **The Complex Sedimentary and Ecological Environments of a Drowned River Valley: Port Stephens, SE Australia:** C. Schroder-Adams, T. Tran
- **Updip Migrating Bedforms in the Inclined Heterolithic Strata as a Compelling Evidence of a Sinuous, Meandering Tidal-Fluvial Channel: Comparisons Between Ancient (Upper Cretaceous Neslen Formation, USA) and Modern (Macrotidal Estuary, Gomso Bay, Korea) Analogues:** K. Choi, R. J. Steel, C. Olariu, M. I. Olariu



### (Theme 6) Shallow Marine Systems and Processes: A Tribute to Roger Walker and Gerry Middleton II (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: J. Bhattacharya and B. Willis

- **Facies Architecture of Sandstones and Shales in Mouth Bar Assemblages of the Late Cretaceous Ferron Notom Delta, Factory Butte, Utah:** S. Ahmed, J. Bhattacharya
- **3-D Facies Architecture and Mouth Bar Development of a Flood-, Storm-Dominated Delta: Cretaceous Ferron Sandstone, Utah:** D. Garza, J. Bhattacharya, Y. Zhu
- **Three-Dimensional Numerical Modelling of Clinofolds Within Deltaic and Shoreface Reservoirs:** G. H. Graham, M. D. Jackson, G. Hampson, R. Sech, D. Peter
- **3-D Characterization of Wave-Influenced Deltaic Reservoir Analogs: An Example from Ferron Notom Delta, Utah, USA:** D. Wang, J. Bhattacharya
- **Reservoir Modeling of Highly Heterolithic Tidal Shoreline Deposits in the Segoo Sandstone, Utah; Translating Detailed Outcrop Knowledge to Subsurface Understanding of Flow in Stratigraphically Complex Systems:** D. B. Dunlap, D. Burton, L. Wood
- **Tectonic Control of Sedimentary Architecture on Giant Continental Shelves: An Example from the Bonaparte Basin (North-West Australia):** J. Bourget, B. Ainsworth, G. Backe
- **An Architecture-Based Classification for Marginal Marine Systems: Examples from the Ancient and Modern:** B. Ainsworth, B. Vakarelov, R. Nanson
- **Source-to-Sink Correlation and Facies Architecture of the Late Campanian Twenty-Mile and Trout Creek Clastic Wedges:** J. Leva Lopez, R. Steel
- **Advance and Retreat of the Safaniya Delta, Offshore Northeast Saudi Arabia:** O. M. Soliman
- **Stratal Stacking Patterns and Sandstone Body Dimensions in the Cretaceous Ferron Sandstone of the Henry Mountains, South-Central Utah:** C. Fielding
- **Architecture of Froude Critical-Supercritical Submarine Fans: Tank Experiments Versus Field Observations:** D. Hoyal, B. Sheets, R. Wellner, D. Box, A. Sprague, R. Bloch

### (Theme 7) Advances in Modeling Carbonate Systems II (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: F. Whitaker, D. A. Pollitt and P. Burgess

- **Use of Insolation as a Proxy for High-Frequency Eustasy in Forward Modeling of Platform Carbonate Cyclostratigraphy – A Promising Approach:** R. Forkner, L. Hinnov, P. Smart
- **Facies Distribution in Collapsed Carbonate Karsts: A Mechanical Approach:** M. Titeux, X. Janson, S. Srinivasan, L. Lake
- **Modeling Depositional Heterogeneity of Carbonate Ramps Using Outcrop Analogs and Multiple Point Statistics:** T. Playton, J. Kenter, M. Levy, P. M. Harris, G. Jones, A. Pierre
- **Capturing Interwell Scale Heterogeneity from Process-Based Modelling for Reservoir Flow Simulations: A Study of the Middle Triassic Latemar Platform, Dolomites, N. Italy:** G. Felce, F. Whitaker, G. Benson
- **The Origins of Shallow-Water Carbonate Lithofacies Thickness Distributions: 1D Forward Modelling of Relative Sea-Level Control:** P. Burgess, D. A. Pollitt

- **Use of Reactive Transport Modeling to Predict the Impact of Seawater- CO<sub>2</sub> Injection for EOR in Carbonate Reservoirs:** G. Zhang, C. Taberner\*, A. Devlin, J. Stammeyer

### (Theme 7) Carbonate Reservoirs: Case Studies & Techniques for Characterization II (SEPM/AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: G. P. Eberli, S. B. Gaswirth and S. Bachtel

- **New Insights on the Upper Cretaceous Bireno-Douleb Carbonate Reservoirs Within the Gulf of Gabes-Tunisia- Pelagian Basin, North Africa: Facies, Depositional Models, Reservoir Characterization and Fairways:** M. Soussi, M. Acheche, M. Elleuch, A. M'Rabet\*, P. T. Gordon, H. M. Bisewski
- **From Seismic Interpretation to Reservoir Modeling: A Case of Study of the Diamond-M Field:** R. Perez, C. Russian, K. J. Marfurt, A. Small
- **Characterization and Modeling Study of Karst Networks in the Ordovician Carbonate Reservoirs:** F. Shen, D. Zheng, W. Pan
- **Paleocene-Early Miocene Regional Stratigraphic Framework of the Central Mesopotamian Basin and Its Tectonic Implication:** P. C. Tai, G. J. Grabowski, K. W. Schafer, C. Liu, A. O. Wilson
- **Characteristics of Karst Paleogeomorphology of Ordovician Carbonate Unconformity, Lungu Area, Tarim Basin, West China:** J. Tian, Y. Tong\*, C. Luo, Y. Yuan, L. Chen, P. Yang, F. Xue, C. Zhao
- **Integrating Wireline Pressure Data, Stratigraphy, and Historic Fluid Production to Better Understand the Areal and Stratigraphic Pressure Distribution Prior to Steamflood Operations in the Wafra First Eocene Reservoir, PZ, Saudi Arabia and Kuwait:** D. Rowan, S. Aziz, N. Champenoy, W. Meddaugh, G. Gonzalez
- **An Exceptionally Well-Preserved Calcisponge-Dominated Reef Facies in the Upper San Andres Formation (Permian), East Vacuum Grayburg San Andres Unit, Lea County, New Mexico:** D. M. Orchard, G. P. Wahlman, G. J. Buijs
- **Use of Mud Gas Compositional Analysis to Determine Fracture Quality of Natural Fractures in the Austin Chalk:** J. Madren, J. LaMarro
- **Carbon Isotope Stratigraphy of the Cretaceous Gulf of Mexico: Global Utility and Regional Implications:** R. M. Phelps, C. Kerans
- **Application of Whole Rock Inorganic Geochemistry to Stratigraphic Understanding of Mixed Carbonate Evaporite Reservoirs, an Example from the First Eocene of the Wafra Field, PZ:** P. Montgomery, K. Ratcliffe, D. Wray, S. Bachtel, M. Wright, D. McCarty, A. Derkowski, B. Archuleta, N. Toomey, D. Dull, W. Meddaugh, M. Ubat
- **An Integrated System for Macro-Scale Anhydrite Classification:** R. Forkner
- **Capturing Porestructures with Digital Image Analysis for a Quantitative Correlation to Physical Properties:** R. J. Weger, K. Verwer, G. P. Eberli, G. Baechle
- **The Role of Evaporites in a High Frequency Sequence Stratigraphic Framework for the Late Jurassic of Northeastern Saudi Arabia:** C. Allen, K. Leyrer, D. Gustafson, F. Meyer

### (Theme 7) Modern & Pleistocene Carbonate Studies: Sedimentology, Diagenesis and Process II (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: J. R. Markello, J. Gournay and A. W. Droxler

- **Stratigraphic Complexity of a Windward Platform Margin, Exumas, Bahamas:** K. L. Jackson, G. P. Eberli, D. F. McNeill, P. M. Harris
- **Stratigraphic Evolution and Heterogeneity of a Holocene Ooid Tidal Sand Shoal: Lily Bank, Bahamas:** A. Sparks, E. Rankey
- **A Global Survey of the Geometry and Sedimentology of Holocene Shelf-Margin Reefs and Sandy Backreef Aprons:** E. C. Rankey, S. Reeder, R. Garza-Perez
- **Characterization of Onlapping Reef Sequences: Dominican Republic Drilling Project:** J. S. Klaus, D. F. McNeill, A. Ditya, Y. Hernawati, G. P. Eberli, P. K. Swart
- **Sabkha Environments Along the Qatar and Abu Dhabi (United Arab Emirates) Coastlines: New Insights into the Depositional and the Diagenetic Variability of Sabkha Systems:** C. J. Strohmenger, J. Jameson
- **Isotope Signature as the Tool for Meteoric Diagenesis in Pleistocene Reef, Southern Dominican Republic:** Y. Hernawati, P. K. Swart, D. F. McNeill, J. Klaus, G. P. Eberli

### (Theme 7) Outcrop Analogs for Carbonate and Evaporite Reservoirs I (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: K. Giles, J. Bishop and M. Pope

- **An Updated Model of the Stratigraphic Architecture of the Great Bank of Guizhou, an Isolated Carbonate Platform in the Nanpanjiang Basin of South China:** B. Kelley, M. Yu, D. Lehrmann, A. B. Jost, K. M. Meyer, J. L. Payne
- **Lateral Facies Architecture and the Role of Antecedent Topography on Carbonate Facies Geometries in Incipient Icehouse Climatic Conditions Carboniferous/Lower Pennsylvanian (Baskirian/Morrowan): Hueco Mountains Texas:** W. R. Wright, H. S. Nance\*
- **Comparison of Lower Cambrian Carbonate Facies and Halokinetic Sequences in Minibasins Developed on Opposite Sides of Wirralpa Diapir, Central Flinders Ranges, South Australia:** A. Collie, K. Giles
- **Identification of a Neoproterozoic Shelfal Suprasalt Carapace and Correlation to a Tapered Composite Halokinetic Sequence at Patawarta Diapir, Central Flinders Ranges, South Australia:** R. Kernan, K. Giles, M. G. Rowan, T. E. Hearon
- **Facies, Environments and Mechanism of Initiation and Termination of an Oligocene Carbonate Platform: Rajamandala Formation, West Java:** D. Lehrmann, B. Jeffrey
- **Sequence Stratigraphic Model for the Oligocene-Miocene, Land-Attached Mixed Carbonate-Siliciclastic System of Guanica Harbor, Southwestern Puerto Rico:** S. E. Kaczmarek, C. Ruidiaz, T. Simo, H. Santos, S. Fullmer, W. Ramirez, F. Hasiuk, G. Baechle, S. Guidry
- **Evaluating Evaporite Karst Expressions in Outcrop Using Terrestrial LiDAR Within the Mississippian Madison Formation, Fremont Canyon, Wyoming:** J. El-Azzi, C. Kerans



- **Petroleum Potential of a Triassic Carbonate Platform in the Whitehorse Trough Forearc Basin, Yukon, Canada:** G. W. Lowey
- **Facies Distribution and Morphologies of Miocene Carbonate Platform Deposits: The Role of Paleotopography, La Rellana Platform, Southeastern Spain:** R. Sweeney, R. H. Goldstein, E. K. Franseen
- **Late Jurassic Jubaila Formation Storm-Dominated Cycles of Central Arabia: Outcrop Expression of the Middle Arab-D Reservoir:** D. L. Cantrell, R. F. Lindsay\*, N. F. Hurley, A. G. Al-Dhubeeb, M. Alibrahim, T. Ait Ettajer, M. S. Alfarhan, C. L. Aiken, L. White
- **Evolving Lower Permian Sequence Architectures of the Eastern Shelf, Midland Basin: Stratigraphic Response to the End of the Late Paleozoic Icehouse:** P. Holterhoff
- **The Mississippian Madison Formation: Controls on the Development of a Regionally Extensive Evaporite Paleokarst Complex:** N. Eldam, T. Kloss

### (Theme 7) Outcrop Analogs for Carbonate and Evaporite Reservoirs II (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: K. Giles, J. Bishop and M. Pope

- **An Ocean Record of Atmospheric Dust from Pennsylvanian Carbonates of the Akiyoshi Atoll, Japan:** E. Patterson, G. Soreghan, H. Sano, V. Davydov
- **Eolianites as Potential Reservoir Rocks:** G. Frebourg, C. Hasler, E. Davaud
- **Trace Element Distribution in Dolostones from the Permian Basin, West Texas:** A. M. Wende, P. Tomascak, E. Rasbury, A. Lanzirrotti, F. Lucia
- **Biomarker Evidence for Paleoenvironmental Conditions in the Upper Guadalupian (Mid-Permian) Bell Canyon Formation, Delaware Basin, West Texas:** S. O'Connor, H. Naraoka, S. Poulson, P. J. Noble
- **Controlling Factor of Reefs in the Upper Triassic Maantang Formation and Their Impact on Hydrocarbon Exploration in the Western Sichuan Basin, China:** R. Yang, S. Liu
- **Evaluating Controls on Carbonate Sequence Development: Middle to Late Miocene Ponce Limestone, Puerto Rico:** D. Ortega-Ariza, E. K. Franseen
- **Climate Control on Reservoir Distribution in the Upper Devonian Three Forks Formation, North Dakota and Montana:** S. Egenhoff, A. Jaffri, P. Medlock
- **High Resolution Chronostratigraphy of a Carbonate Platform Top to Reef Transition, Upper Devonian, Canning Basin, Western Australia:** T. Playton, P. Montgomery, M. Yan, E. Tohver, K. Ratcliffe, M. Wright, J. Sano, K. Hillbun, D. A. Katz, P. Haines, R. Hocking, P. M. Harris, G. Jones

### (Theme 7) Seismic Interpretation of Carbonate & Evaporites (SEPM)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: T. Simo and K. Lamb-Wozniak

- **Forced Regression Versus Drift Sedimentation — Clinoform Stacking Patterns in Carbonate Platforms (Maldives, Indian Ocean):** J. Fuerstenau, C. Betzler, C. P. Huebscher, T. Luedmann, A. W. Droxler, A. Paul, J. Reijmer

- **Carbonate Reservoir Characterisation: A Middle East Case Study Using 3-D Seismic Analysis Workflows:** G. Paton, H. Basford, A. Avu, F. van Kleef
- **Nature and Timing of a Late Quaternary Carbonate Sediment Drift, Inner Sea of the Maldives Archipelago:** K. Lopez, J. Fuerstenau, T. Luedmann, A. W. Droxler, C. Betzler, J. J. Reijmer, C. P. Huebscher, A. Paul
- **3-D Seismic Interpretation of Permian-Carboniferous Carbonates in Offshore Northern Europe: Faulting and Leakage Analysis:** A. Sánchez-Monclú, M. Esteban
- **When 3-D PSMD Turns Your Geologic Model Upside Down:** G. C. Fisher

### (Theme 8) Impact of Structural Analysis on Hydrocarbon Exploration (AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: T. M. Laroche, S. Dorobek and C. A. Guzowski

- **Sonic Velocity Analysis of Triassic and Paleozoic Interval of Onshore North Florida Wells to Determine Exhumation:** M. Sadlick
- **Offshore Nova Scotia: Integrating Salt Deformation Styles, Basin Structuring and Distribution of Crustal Terranes:** M. Dinkelman, D. Bird
- **Late Cretaceous, Kilometric Scale Slides and Associated Slump Complexes, Orange Basin, SW Africa:** N. Scarselli, K. McClay, C. Elders
- **Typical Cenozoic Dextral Strike-Slip Characteristics of Tan-Lu Fault and Relationship with Oil and Gas in Eastern Laizhou Bay, Bohai Offshore Area of China:** S. Hao, Z. Donghong, N. Chengmin, L. Dingyou
- **The Origin and Development of the Tampa Embayment and Its Role in the Tectonic Evolution of the Eastern Gulf of Mexico:** L. Wilson, D. Robinson, J. Erickson
- **Densification and Alteration of Siliciclastics Adjacent to the San Andreas Fault at SAFOD: Implications for Seismic Velocity Structure and Fluid Flow:** B. Heron, J. S. Chester, F. M. Chester, R. Guillemette
- **Shortening Gradients and Structural Styles in the Eastern Cordillera of Colombia. Implications for the Petroleum Systems of the Cordillera and Adjacent Foothills:** E. Teson, A. Mora, A. Silva, J. Namson, A. Kammer, A. Teixell, M. Julivert, J. Castellanos, W. Casallas, M. Nemcok, J. Tamara, A. Velasquez
- **Yinggehai (Red River) Strike-Slip Fault Zone Displacements and the Tectonic Evolution of the Yinggehai Basin, South China Sea Insights from Numerical Simulations:** H. Bui, Y. Yamada, T. Matsuoka, A. Nur
- **The Sorong Fault Zone Kinematics: Implication for Structural Evolution on Salawati Basin, Seram and Misool, West Papua, Indonesia:** P. Riadini, B. Sapiie

- **Long-Term Deformation Versus Stress Orientations from Borehole Breakouts in the Colombian Eastern Foothills. Distinction of Compressional and Transpressional Structural Domains:** A. R. Mora Bohorquez, A. Ramirez, E. Zambrano Vargas, A. Valencia
- **Hydrocarbon Prospects of Chashmai-Latamber Anticlinal Trend Using Structural Restoration Techniques, Kohat Foreland Fold and Thrust Belt, NW Pakistan:** M. I. Khan, A. Sajjad
- **Re-understanding of the Tectonic Feature of Chelif Basin in North of Algeria:** N. Fang, G. Chen, Y. Jia, J. Li

### (Theme 9) Geophysical Basin Evaluation Techniques in Volcanic, Fractured and Source Rich Area (AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: R. Ray and E. Fisher

- **Using Modern Seismic Techniques to Unlock India's Deepwater Pre-basalt Hydrocarbon Potential:** G. Scaife, R. Miller, R. Spoons
- **Petroleum Prospectivity of the Eastern Australian Deepwater Frontier Basins: Insights from the Capel and Faust Basins:** T. Hashimoto, N. Rollet\*, K. Higgins, V. Stagpoole, P. Petkovic, R. Hackney, G. Logan, J. Colwell, R. Funnell, G. Bernardel
- **Basin Evaluation Comparison: Paradox, San Juan and Black Mesa Basins Utah, Colorado, New Mexico and Arizona, USA:** C. Prieto, T. P. Bulling\*
- **A Study of Volcanic Rocks Identification by Seismic Methods in Subei Basin:** G. Zuo, G. Fan
- **Estimation of the Basalt and the Underlying Sediments from Seismic, Gravity, and Geological Data — A Case Study in the Chambal Valley in the Western Part of the Proterozoic Vindhyan Basin, India:** D. Saha, D. Sar, V. Singh
- **Exploration in a Frontier Area — Integrating Old Idea and New Technology "A Case Study from Mizoram Fold Belt Area of Assam-Arakan Basin, India":** A. N. Borthakur, J. P. Ahmed

### (Theme 9) Seismic Reservoir Characterization (AAPG)

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: R. Mohanty and C. A. Voorhies

- **Geophysical Characterization of an Oligo-Miocene Prospective Interval in Copa Macoya Field, Guárico Sub-basin, Venezuela:** Y. Pérez, B. Cortiula, J. Sierra, B. De Toni, C. Da Encarnacao, C. Padrón
- **Carbonate Ramp Nummulite Limestone Reservoir Integrated Research in Pelagian Basin, Libya:** J. Li, T. Wang, N. Fang, Y. Jia, Y. Dou, S. Sun
- **Using Seismic Facies to Constrain Electrofacies Distribution as an Approach to Reduce Spatial Uncertainties and Improve Reservoir Volume Estimation:** B. de Ribet, P. Goncalves, L. H. Zapparoli, C. A. Ushirobira
- **Rock-Physics-Based Permeability Heterogeneity and Fluid Evaluation of an Ultra-Deep Low-Porosity Carbonate Reservoir, Sichuan Basin, China: I. Petrophysical Study:** Q. Dou, Y. Sun, H. Zhang, T. Zhang, T. Guo, X. Cai
- **Lidar Characterization of a Jackfork Group Basin Floor Fan Deposit and Implications to Analog Reservoir Modeling and Production:** B. D. Schlichtemeier



- **Geophysical Recognition and Characterization of One Deepwater Channel in the Northern Slope of South China Sea:** L. Li, L. Fuliang, G. Fan, B. Wang, D. Yong

**(Theme 9) Seismic Structural Interpretation (AAPG)**

Exhibition Hall 8:30 a.m.–11:30 a.m.

Co-Chairs: R. Roden and M. Brown

- **Application of Illumination Compensation to Irregular Surface Areas Imaging:** Y. Ye, R. Wu, X. Zhuang, B. Hu, J. Chen, C. Yang
- **Seismic-Sedimentologic Interpretation of Fluvial Sedimentary Architectures: We Should Focus More on Development Scale:** X. Zhang, H. Zeng, C. Lin, T. Zhang, C. Dong
- **Identifying Lithology Variation and Gas Occurrence in Deep Carbonate Reservoirs Using S Transform:** Z. Zhang, Y. Sun
- **Reassessing the In Situ Stress Regimes of Australia's Petroleum Basins:** R. C. King, S. Holford, R. Hillis, G. Backe, M. Tingay, A. Tuitt
- **Tectonic Evolution of the Mardin Uplift, Southeast Turkey:** J. P. Doubek, W. Beauchamp

**(Theme 10) CO<sub>2</sub> Capture and Sequestration (DEG)**

Exhibition Hall 8:30 a.m.–11:30 a.m.

Chair: G. Blount

- **Carbon Sequestration in the South Georgia Rift: Is the Ubiquitous "J" Reflection Synonymous with Basalt?:** D. M. Heffner, J. H. Knapp, O. M. Akintunde, C. Knapp, J. Shafer
- **Geologic Characterization of Modern CO<sub>2</sub> Accumulations and Fracture Analysis of a Laramide Uplift in the Rocky Mountain Foreland:** W. Treadway, H. B. Lynn, D. R. Lageson
- **Site Characterization for CO<sub>2</sub> Storage from Coal-Fired Power Facilities in the Black Warrior Basin of Alabama:** R. Rutter, W. Harris, A. Goodliffe, J. Pashin
- **Reservoir and Caprock Assessment Using Existing Seismic and Well Data for CO<sub>2</sub> Geologic Sequestration in the South Georgia Rift Basins of the Lower Coastal Plain, South Carolina:** M. Waddell, A. D. Addison, D. Brantley, C. Knapp
- **Geochemical Characterization of the Donovan Sand Reservoir for CO<sub>2</sub> Sequestration, Citronelle Oil Field, Southwest Alabama:** A. Weislogel, B. Hollon, J. Schwartz, K. Coffindaffer
- **Assessing the Relationship Between Aeolian Bedforms and Hydraulic Properties in the Jurassic Navajo Sandstone in Central Utah for the Evaluation of CO<sub>2</sub> Sequestration:** J. L. Allen, S. Lee, W. Han
- **Carbon Storage Options for the Power Industry in the Texas Gulf Coast Area:** J. Nicot, T. A. Meckel, R. H. Trevino

## General Information

### Registration Hours – Exhibition Hall E

Saturday, 9 April .....7:30 a.m.–5:00 p.m.  
Sunday, 10 April .....7:30 a.m.–7:30 p.m.  
Monday, 11 April.....7:30 a.m.–5:00 p.m.  
Tuesday, 12 April .....7:30 a.m.–5:00 p.m.  
Wednesday, 13 April.....7:30 a.m.–12:00 p.m.

### Business Meetings

#### AAPG House of Delegates Meeting

Sunday, 10 April, 8:00 a.m.

#### SEPM Business Meeting/Luncheon

Tuesday, 12 April, 11:30 a.m.

### Convention Center

All events take place in sections C, D and E at the George R. Brown Convention Center unless otherwise indicated.

1001 Avenida de las Americas  
Houston, Texas 77010  
GPS Coordinates: Latitude: 29.7543 and Longitude: -95.35768

The GRBCC features a 1,600-space parking garage located at the corner of Polk Street and Avenida de las Americas. The parking lot is connected to the GRBCC and the Hilton Americas-Houston by Level 2 skywalks.



See on-site Program Book for most up-to-date information

### No-Smoking Policy

Smoking is prohibited at the Convention Center.

### Obtaining a Visa

It is your responsibility to apply for a passport, visa or any other required documents and to demonstrate to consular officials that you are properly classifiable as a visitor under United States law. AAPG cannot assist you with the interview process, nor can anyone representing the sponsoring organizations call an embassy or consulate on your behalf to provide support for granting a visa. Should your application be denied, AAPG can neither intervene in the process nor change the decision of the governmental agency. All expenses connected with obtaining proper documentation are your responsibility.

If you need a visa letter from AAPG, you must be registered and fully paid for the convention. You may request a letter by selecting the box either online or on the printed registration form. AAPG supplies this letter for visa purposes only. All expenses involved with attending the convention are your responsibility. If your visa application is denied and AAPG receives a copy of the denial by fax (+1 918 560 2684) before 13 April 2011 your registration fee only will be refunded, less a cancellation charge. To learn about the visa application process, understand current requirements and get updates on recent developments go to [www.unitedstatesvisas.gov](http://www.unitedstatesvisas.gov).

### Registering with Your Embassy

Travel advice to tourists suggests you register with your country's consulate or embassy when traveling abroad.