



TECHNICAL PROGRAM AT A GLANCE

Monday AM

Theme I: Technology and Techniques	Geological Operations (AAPG)	Oral	Room 238/239
Theme I: Technology and Techniques	Current Issues in Marine Geohazards (AAPG/SEPM)	Oral	Room 238/239
Theme I: Technology and Techniques	Geophysical Integration: A Road Map to Exploration Success (AAPG)	Oral	Room 243/244/245
Theme I: Technology and Techniques	Petroleum Geochemistry (AAPG)	Oral	Room 252/253/254
Theme II: Sedimentation and Stratigraphy	Paleoclimates and Paleocceanography in Deep Time: Improved Data-Model Integration in Paleoclimate Analysis (SEPM)	Oral	Room 255/256/257
Theme IV: Evolving Plays and Significant Discoveries	Circum-Arctic (AAPG)	Oral	Room 338/339
Theme IV: Evolving Plays and Significant Discoveries	Australasia (AAPG)	Oral	Room 338/339
Theme II: Sedimentation and Stratigraphy	New Depositional Models for Shallow Marine Mudrocks: Modern Processes and Ancient Successions (SEPM)	Oral	Room 343/344/345
Theme II: Sedimentation and Stratigraphy	Siliciclastic Deep-Water Depositional Systems, Modern and Ancient I (SEPM)	Oral	Room 353/354/355
Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Deltaic Coasts and Society: The Mississippi Delta and Beyond (SEPM)	Oral	Room 356/357
Theme XII: Student Poster Sessions	Selected Academic Research Topics: Student Presentations (AAPG)	Poster	Exhibition Hall
Theme X: U.S. Energy	Future of U.S. Energy (AAPG)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	North Africa (AAPG)	Poster	Exhibition Hall
Theme VI: Tectonics and Sedimentation	Sedimentation and Tectonics in Rifts (SEPM)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Climatic Controls on Sedimentation (SEPM)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Numerical and Physical Modeling of Climatic and Tectonic Controls on Sedimentation (SEPM/AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Intra-plate Deformation and Inversion Tectonics: Causes and Petroleum Implications (AAPG)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Rock Physics and Quantitative Seismic Analysis (AAPG)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Salt, Sub-Salt and Pre-Salt Tectonics, Models and Hydrocarbon Traps (AAPG)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Slope Systems Deformed by Gravity Processes (AAPG)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Middle East (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Mixed Siliciclastic and Carbonate Depositional Environments and Systems, Modern and Ancient (SEPM)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models (SEPM/AAPG)	Poster	Exhibition Hall

Tuesday AM

Theme VIII: Unconventional Resources	Exploration for Gas Hydrate Resources (EMD/AAPG)	Oral	Room 238/239
Theme IX: Expanded Applications of Geosciences	CO ₂ Sequestration: Strategies and Technologies for Storage and Monitoring (DEG/EMD)	Oral	Room 243/244/245
Theme I: Technology and Techniques	Basin Modeling (AAPG/SEPM)	Oral	Room 252/253/254
Theme X: U.S. Energy	Plays (AAPG)	Oral	Room 252/253/254
Theme VI: Tectonics and Sedimentation	Regional Interactions of Tectonics and Sedimentation: Examining Relationships Between Deformation and Basin Evolution (SEPM)	Oral	Room 255/256/257
Theme IV: Evolving Plays and Significant Discoveries	Petroleum Systems of the Tethyan Region (AAPG)	Oral	Room 338/339
Theme II: Sedimentation and Stratigraphy	SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate I	Oral	Room 343/344/345
Theme II: Sedimentation and Stratigraphy	Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models II (SEPM/AAPG)	Oral	Room 353/354/355
Theme II: Sedimentation and Stratigraphy	Mapping, Modeling, and Understanding Facies Heterogeneity in Carbonate Deposits (SEPM)	Oral	Room 356/357
Theme XII: Student Poster Sessions	SEPM Student Research Papers	Poster	Exhibition Hall
Theme I: Technology and Techniques	Best of Hedberg (AAPG)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Interaction of Hydraulic Fracture Treatments with Natural Fractures in Tight Gas Reservoirs (AAPG)	Poster	Exhibition Hall
Theme IX: Expanded Applications of Geosciences	Environmental Impact (EMD)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Capturing Critical Fault Seal Issues (AAPG)	Poster	Exhibition Hall
Theme III: Resource Assessment	Methodology & Techniques (AAPG)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Exploration and Production of Shale Oil Resources (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Stratigraphic Compartmentalization of Hydrocarbon Reservoirs (SEPM)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Coal: Versatile Fuel Source for the Future (EMD)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Conjugate South Atlantic Margins (AAPG/SEPM)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Conjugate Central and Northern Atlantic Margins (AAPG/SEPM)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Complex Structural Modeling in Honor of Ted Apotria (SEPM)	Poster	Exhibition Hall
Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Palentology in the 21st Century: A symposium dedicated to Ed Picou (SEPM/AAPG)	Poster	Exhibition Hall

Wednesday AM

Theme I: Technology and Techniques	Rock Physics and Quantitative Seismic Analysis (AAPG)	Oral	Room 238/239
Theme I: Technology and Techniques	Evolving Technology (AAPG)	Oral	Room 238/239
Theme IV: Evolving Plays and Significant Discoveries	Conjugate Central and Northern Atlantic Margins (AAPG/SEPM)	Oral	Room 243/244/245
Theme II: Sedimentation and Stratigraphy	Baffles and Barriers — Conduits & Impediments to Fluid Flow (SEPM)	Oral	Room 252/253/254
Theme II: Sedimentation and Stratigraphy	Stratigraphic Compartmentalization of Hydrocarbon Reservoirs (SEPM)	Oral	Room 252/253/254
Theme I: Technology and Techniques	Petroleum System Analysis (AAPG/SEPM)	Oral	Room 255/256/257
Theme II: Sedimentation and Stratigraphy	Source-to-Sink Sediment Dispersal, Modern and Ancient I (SEPM)	Oral	Room 338/339
Theme VIII: Unconventional Resources	Exploration and Production of Shale Gas Resources (AAPG/EMD)	Oral	Room 343/344/345
Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Paleontology in the 21st Century: A Symposium Dedicated to Ed Picou (SEPM/AAPG)	Oral	Room 353/354/355
Theme II: Sedimentation and Stratigraphy	Submarine Mass Movements and Their Consequences for Deepwater Exploration and Production (SEPM)	Oral	Room 356/357
Theme XII: Student Poster Sessions	Additional Student Posters	Poster	Exhibition Hall
Theme IX: Expanded Applications of Geosciences	Astrogeology — Impact of Collisions on Earth's History and the Occurrence of Hydrocarbon and Mineral Resources (EMD)	Poster	Exhibition Hall
Theme VI: Tectonics and Sedimentation	Salt Sediment Interaction (AAPG)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Genesis of Shale Gas — Physicochemical and Geochemical Constraints Affecting Methan Adsorption and Desorption (EMD)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Reservoir Modeling (AAPG/SEPM)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Reservoir Characterization (AAPG/SEPM)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Fractured Reservoirs: From Fundamental Processes to Technological Advancements (AAPG)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Exploration for Gas Hydrate Resources (EMD)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Continental Breakup Processes and Their Implications for Exploration Models in Rift and Passive Margin Settings (AAPG)	Poster	Exhibition Hall
Theme IX: Expanded Applications of Geosciences	CO ₂ Sequestration: Strategies and Technologies for Storage and Monitoring (DEG/EMD)	Poster	Exhibition Hall
Theme XI: Global Climate Change	Carbon Dioxide Capture and Geologic Sequestration (DEG/EMD)	Poster	Exhibition Hall



TECHNICAL PROGRAM AT A GLANCE

Monday PM

Theme II: Sedimentation and Stratigraphy	Climatic Controls on Sedimentation (SEPM)	Oral	Room 238/239
Theme IV: Evolving Plays and Significant Discoveries	Discovery Thinking Forum (AAPG/DPA/HOPG)	Oral	Room 243/244/245
Theme IV: Evolving Plays and Significant Discoveries	Halbouty Lecture: Shale Gas and America's Energy Future (AAPG)	Oral	Room 243/244/245
Theme V: Structural Geology: Styles and Processes	Seismic Interpretation of Faulted Reservoirs: How to Get the Right Answer the First Time (AAPG)	Oral	Room 252/253/254
Theme V: Structural Geology: Styles and Processes:	Intra-plate Deformation and Inversion Tectonics: Causes and Petroleum Implications (AAPG)	Oral	Room 252/253/254
Theme II: Sedimentation and Stratigraphy	Numerical and Physical Modeling of Climatic and Tectonic Controls on Sedimentation (SEPM/AAPG)	Oral	Room 255/256/257
Theme IV: Evolving Plays and Significant Discoveries	Middle East (AAPG)	Oral	Room 338/339
Theme IV: Evolving Plays and Significant Discoveries	North Africa (AAPG)	Oral	Room 338/339
Theme VIII: Unconventional Resources	Assessment of Unconventional Resources (EMD)	Oral	Room 343/344/345
Theme II: Sedimentation and Stratigraphy	Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models (SEPM)	Oral	Room 343/354/355
Theme II: Sedimentation and Stratigraphy	Mixed Siliciclastic and Carbonate Depositional Environments and Systems, Modern and Ancient (SEPM)	Oral	Room 356/357
Theme V: Structural Geology: Styles and Processes	Continental Breakup Processes and Their Implications for Exploration Models in Rift and Passive Margin Settings (AAPG)	Oral	Room 356/357
Theme VIII: Unconventional Resources	Assessment of Unconventional Resources (EMD)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Geophysical Integration: A Road Map to Exploration Success (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	New Depositional Models for Shallow Marine Mudrocks: Modern Processes and Ancient Successions (SEPM)	Poster	Exhibition Hall
Theme III: Resource Assessment	U.S. Onshore & Offshore (AAPG)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Current Issues in Marine Geohazards (AAPG/SEPM)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Geological Operations (AAPG)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Circum-Arctic (AAPG)	Poster	Exhibition Hall
Theme V: Structural Geology: Styles and Processes	Shale Behavior from Pore to Basin Scale (AAPG)	Poster	Exhibition Hall
Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Deltaic Coasts and Society: The Mississippi Delta and Beyond (SEPM)	Poster	Exhibition Hall
Theme IX: Expanded Applications of Geosciences	Environmental Remediation and Hydrogeological Characterization (EMD/AAPG)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Exploitation of Unconventional Resources (EMD)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Paleoclimates and Paleocyanography in Deep Time: Improved Data-Model Integration in Paleoclimate Analysis (SEPM)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Petroleum Geochemistry (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Lacustrine Depositional Settings, Modern and Ancient (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Siliciclastic Deep-Water Depositional Systems, Modern and Ancient (SEPM)	Poster	Exhibition Hall

Tuesday PM

Theme IX: Expanded Applications of Geosciences	Astrogeology — Impact of Collisions on Earth's History and the Occurrence of Hydrocarbon and Mineral Resources (EMD/AAPG)	Oral	Room 238/239
Theme X: U.S. Energy	Future of U.S. Energy (AAPG)	Oral	Room 238/239
Theme XI: Global Climate Change	Carbon Dioxide Capture and Geologic Sequestration (DEG/EMD)	Oral	Room 243/244/245
Theme V: Structural Geology: Styles and Processes	Complex Structural Modeling in Honor of Ted Apotria (AAPG)	Oral	Room 252/253/254
Theme VI: Tectonics and Sedimentation	Sedimentation and Tectonics in Rifts (SEPM)	Oral	Room 255/256/257
Theme IV: Evolving Plays and Significant Discoveries	Conjugate South Atlantic Margins (AAPG/SEPM)	Oral	Room 338/339
Theme II: Sedimentation and Stratigraphy	SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate II	Oral	Room 343/344/345
Theme II: Sedimentation and Stratigraphy	Siliciclastic Deep-Water Depositional Systems, Modern and Ancient II (SEPM)	Oral	Room 353/354/355
Theme I: Technology and Techniques	Best of Hedberg (AAPG)	Oral	Room 356/357
Theme II: Sedimentation and Stratigraphy	Carbonate Systems in the Subsurface — Capturing Heterogeneity with Geophysical Methods (SEPM)	Oral	Room 356/357
Theme I: Technology and Techniques	Petroleum System Analysis (AAPG/SEPM)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Innovative Interpretation and Use of Seismic Data (AAPG)	Poster	Exhibition Hall
Theme X: U.S. Energy	Plays (AAPG)	Poster	Exhibition Hall
Theme I: Technology and Techniques	Basin Modeling (AAPG)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Asia (AAPG)	Poster	Exhibition Hall
Theme IV: Evolving Plays and Significant Discoveries	Petroleum Systems of the Tethyan Region (AAPG)	Poster	Exhibition Hall
Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Understanding the Gulf of Mexico: Depositional Systems, Play Concepts and Structure (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Source-to-Sink Sediment Dispersal, Modern and Ancient (SEPM)	Poster	Exhibition Hall
Theme VIII: Unconventional Resources	Exploration and Production of Shale Gas Resources (AAPG)	Poster	Exhibition Hall
Theme II: Sedimentation and Stratigraphy	Mapping, Modeling, and Understanding Facies Heterogeneity in Carbonate Deposits (SEPM)	Poster	Exhibition Hall
Theme VI: Tectonics and Sedimentation	Regional Interactions of Tectonics and Sedimentation: Examining Relationships Between Deformation and Basin Evolution (SEPM)	Poster	Exhibition Hall

Wednesday PM

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent	Understanding the Gulf of Mexico: Depositional Systems, Play Concepts and Structure (AAPG)	Oral	Room 238/239
Theme XI: Global Climate Change	Forum: Climate Change, Sea Level Change, and Storm Event Impact on Sedimentary Environments and Petroleum Industry Infrastructure, U.S. Gulf of Mexico (AAPG/DEG)	Oral	Room 243/244/245
Theme I: Technology and Techniques	Reservoir Modeling (AAPG/SEPM)	Oral	Room 252/253/254
Theme I: Technology and Techniques	Reservoir Characterization (AAPG/SEPM)	Oral	Room 252/253/254
Theme I: Technology and Techniques	Innovative Interpretation and Use of Seismic Data (AAPG)	Oral	Room 255/256/257
Theme III: Resource Assessment	Methodology & Techniques (AAPG)	Oral	Room 338/339
Theme II: Sedimentation and Stratigraphy	Source to Sink Sediment Dispersal Modern and Ancient (SEPM)	Oral	Room 338/339
Theme VIII: Unconventional Resources	Genesis of Shale Gas — Physiochemical and Geochemical Constraints Affecting Methane Adsorption and Desorption (EMD/AAPG)	Oral	Room 343/344/345
Theme V: Structural Geology: Styles and Processes	Interaction of Hydraulic Fracture Treatments with Natural Fractures in Tight Gas Reservoirs (AAPG)	Oral	Room 353/354/355
Theme V: Structural Geology: Styles and Processes	Fractured Reservoirs: From Fundamental Processes to Technological Advancements (AAPG)	Oral	Room 353/354/355
Theme VI: Tectonics and Sedimentation	Salt Sediment Interaction (AAPG)	Oral	Room 356/357

Judge your peers' papers and posters

Your participation in the judging of papers and posters is requested. This important function determines the winners of the Matson Award, Braunstein Award, SEPM Best Paper and Best Poster Awards and Division Awards. Your effort will involve judging and evaluating one or more oral or poster sessions. Please mark your registration form to volunteer to be a judge at the 2010 Convention!



TECHNICAL PROGRAM *Denotes speaker other than first author

Monday Morning Oral Sessions

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme I: Geological Operations (AAPG)

Room 238/239

Co-Chairs: A. W. Milne and S. Kimbrell

8:00 **Introductory Remarks**

8:05 **D. Jiang, B. Bennett*, S. R. Larter:** Heavy Oil and Bitumen Viscosity Measurement During Drilling Activities

8:25 **G. Eaton:** Realising the Value of Drilling Data — Back to the Future

8:45 **M. Bedrock, D. Moody:** The Deployment of an Azimuthal Resistivity Tool for Geosteering — A Case Study from the Foinaven Field (North Sea)

9:05 **C. M. Artur:** Geo-Stopping, the Real Value of At-Bit Measurements in Deep Water Angola

9:25 **M. S. Taylor:** Visualization and the Use of Real Time Data While Geosteering, Onshore Algeria

Theme I: Current Issues in Marine Geohazards (AAPG/SEPM)

Room 238/239

Co-Chairs: D. Mosher and R. C. Shipp

10:25 **Introductory Remarks**

10:30 **D. J. Piper, E. Tripsanas, D. Mosher, K. MacKillop:** Seismic Hazard in Passive Margin Frontier Basins: Geological Estimates of the Frequency of Large Earthquake-Triggered Submarine Landslides in Orphan Basin, Offshore Canada

10:50 **S. M. Blasco, R. Bennett, K. A. Blasco:** Marine Geohazard Investigations in Extreme Arctic Offshore Environments

11:10 **M. Vanneste, C. Forsberg, T. Kvalstad, C. Madshus, A. Solheim, J. Strout:** On the Role of Excess Pore Pressure in Offshore Geohazards

11:30 **R. C. Shipp, D. R. McConnell:** Gas Hydrate as a Geohazard in Deepwater Settings

Theme I: Geophysical Integration: A Road Map to Exploration Success (AAPG)

Room 243/244/245

Co-Chairs: S. Earle, L. R. Sternbach and C. Moore

8:00 **Introductory Remarks**

8:05 **R. Roden, M. Forrest, R. Holeywell:** Threshold Effects on Prospect Risking

8:25 **D. Yanchak:** Wide Azimuth Seismic Acquisition (WATS) Vastly Improves Subsalt Resolution in the Deepwater GOM: Case Studies in Atwater Valley, Mississippi Canyon and Green Canyon Areas

8:45 **W. Tate, O. Ozen, V. Singer, B. G. Jardine, M. Helgerud:** 4-D Seismic Integration from Interpretation to History Match: A Case Study from a Mature Deepwater Field

9:05 **J. Allen:** Adventures in Pre-Stack Depth Migration

9:25 **J. Mulligan, B. Schellhorn:** Stratigraphic Details Illuminated Using Modern 3-D Seismic Techniques in Upper Cretaceous Lenticular Reservoirs, Optimizing EOR Production with CO₂

9:45 **Break**

10:30 **N. K. Boyd, M. Cardenas, M. Galarraga:** New Exploration Leads in the M1 Sandstone, Eden Yuturi Field, Ecuador

10:50 **R. W. Keach, L. P. Birgenheier, W. Hokanson:** Integrated Interpretation of the Dakota and Cedar Mountain Channel Complexes Play Using 3-D Seismic Attribute Analysis and Well Logs, Uinta Basin, Utah

11:10 **J. A. Sanchez-Ramirez, C. Torres-Verdin, G. L. Wang, A. Mendoza, D. Wolf, Z. Liu, G. Schell:** Field Cases of the Combined Deterministic Petrophysical Inversion of Gamma-Ray, Density, and Resistivity Logs Acquired in Thinly Bedded Clastic Rock Formations

11:30 **S. Chopra, K. J. Marfurt:** Delineating Fractures Using Seismic Attributes

Theme I: Petroleum Geochemistry (AAPG)

Room 252/253/254

Co-Chairs: W. Dow, D. Schumacher and G. Rice

8:00 **Introductory Remarks**

8:05 **M. A. Abrams, G. Graham:** Geochemical Evaluation of Ocean Surface Slick Methods to Ground Truth Satellite Seepage Anomalies for Seepage Detection

8:25 **M. Bjorøy, I. L. Ferriday:** Preferred Analyses and Sample Preparations for Surface Geochemical Sediment Samples in Petroleum Exploration

8:45 **D. Schumacher, D. Hitzman, B. Rountree, L. Clavareau:** When 3-D Seismic Is Not Enough: Improving Success by Integrating Hydrocarbon Microseepage Data with 3-D Seismic Data

9:05 **G. Rice, G. King, J. Henson:** Cheeseburger Field, a Case for Integration

9:25 **S. C. Teerman, R. Hwang, R. Lytton:** A Deepwater Gulf of Mexico Source Rock Penetration: Applications to Mesozoic Source Rocks and Depositional Systems

9:45 **Break**

10:30 **J. M. Moldowan, D. Zinniker, J. Dahl, P. Denisevich, S. Moldowan, A. A. Bender, S. M. Barbanti, M. R. Mello:** Determination and Quantification of Petroleum Mixtures

10:50 **M. C. Fay, S. Larter, B. Bennett, L. Snowdon:** Oil Mixing Versus Biodegradation as a Control on Oil Properties — A Study from the West Canada Heavy Oil Belt

11:10 **Z. Wei, M. Moldowan, S. Zhang, H. Wang, F. Song, F. Fago, J. Rullkotter:** Geochemical Models for the Hydrocarbon Yield Potential of Source Rocks and Effects of Thermal Stress on Molecular Biomarkers During Hydrous Pyrolysis

11:30 **L. Sitdikova, I. Kosachev, V. Izotov:** Processes of Synthesis of Hydrocarbons in Strata of Sedimentary Rocks on Clay Catalysts

Theme II: Paleoclimates and Paleooceanography in Deep Time: Improved Data-Model Integration in Paleoclimate Analysis (SEPM)

Room 255/256/257

Co-Chairs: T. J. Algeo, L. Soreghan and M. A. Perlmutter

8:00 **Introductory Remarks**

8:05 **J. Kiehl:** The Importance of Modeling Deep Time Climates for Understanding Future Climate Change

8:25 **A. D. Herrmann, B. Haupt:** The Time-Scale Problem in Model-Data Comparison Studies

8:45 **B. J. Haupt, A. Herrmann, T. J. Algeo:** Modeling the Middle-Late Pennsylvanian North American Midcontinent Sea

9:05 **T. J. Algeo, A. Herrmann, B. Haupt:** Gradients in Sediment Geochemistry as a Constraint on Modeling Epeiric Sea Circulation

9:25 **A. J. Mitchell, P. A. Allison*, G. Hampson, C. C. Pain, M. D. Piggott, G. J. Gorman:** Modelling Paleo-Tides and Bed Shear Stress in an Ancient Epicontinental Sea: The Laurasian Seaway

9:45 **Break**

10:30 **J. M. Eros, I. Montanez, D. A. Osleger:** Carboniferous Cyclostratigraphy and Relative Sea Level History, Donets Basin, Ukraine

10:50 **A. Winguth, C. Scotese, C. Winguth, A. P. Osen:** Changes of Late Permian Ocean Circulation and Deep-Sea Anoxia in Response to Tectonic Changes — A Model Study with CCSM3

11:10 **G. R. Upchurch:** Integrating Climate Model Output and Paleoclimate Proxies: An Example from the Latest Cretaceous (Maastrichtian)

11:30 **C. Huang, L. Hinnov:** Astronomically Forced Climate Change Recorded in Late Middle Eocene-Early Oligocene Lacustrine Sediments, China

Theme IV: Circum-Arctic (AAPG)

Room 338/339

Co-Chairs: J. Hogg and M. E. Enachescu

8:00 **Introductory Remarks**

8:05 **R. Kirschner, J. R. Crews, Y. Chevalier, R. W. Krantz, R. Morse, T. Neely, M. Northrop, H. Perfetta, M. Olson, J. Scorer, B. O'Reilly, K. Dorrington, T. Morahan:** Tectono-Stratigraphic Evolution of the U.S. Chukchi Basin

8:25 **R. H. Peterson, J. Craig, K. Sherwood, L. Aleshire:** Alaska's Arctic Offshore Activity

8:45 **A. Embry:** Petroleum Prospectivity of the Triassic-Jurassic Succession of Sverdrup Basin, Canadian Arctic Archipelago

9:05 **G. Dam, M. Larsen, M. Sørderholm:** Benchmarking Arctic Plays Offshore East and West Greenland and Conjugate Margins

9:25 **J. A. Bojesen-Koefoed, P. Alsen, M. Bjerager, F. G. Christiansen, H. P. Nytoft, H. I. Petersen, S. Piasecki, H. J. Vosgerau:** Frontiers of Exploration in Northeast Greenland: Is an Upper Jurassic Petroleum Source Rock Present in the Danmarkshavn Basin?

Theme IV: Australasia (AAPG)

Room 338/339

Co-Chairs: M. Bradshaw and C. I. Uruski

10:25 **Introductory Remarks**

10:30 **C. I. Uruski:** Exploration of New Zealand's Deepwater Frontier

10:50 **G. W. O'Brien, L. Goldie-Divko, M. Harrison, P. Tingate, J. Hamilton, K. Liu:** Basin-Scale Fluid Flow, Sealing, Leakage and Seepage Processes in the Gippsland Basin, Australia

11:10 **S. W. Johnston, L. J. Strachan, J. Cassidy:** Late Pliocene to Recent Seismic Stratigraphy of the Northland Basin, New Zealand: Implications for Complex Passive Margin Delta to Slope Evolution

11:30 **G. Simon, G. Ellis, A. Bond:** The Kitan Oil Discovery, Timor Sea, Joint Petroleum Development Area, Timor Leste and Australia

Theme II: New Depositional Models for Shallow Marine Mudrocks: Modern Processes and Ancient Successions (SEPM)

Room 343/344/345

Co-Chairs: B. Hart, M. Allison and J. H. Macquaker

8:00 **Introductory Remarks**

8:05 **S. Kuehl, L. E. Rose, T. Kniskern:** Sedimentary Structure Distribution and Modification on the Continental Shelf: Relative Roles of River Input, Sediment Transport and Oceanographic Setting

8:25 **R. A. Wheatcroft:** Emplacement and Post-Depositional Alteration of Sedimentary Event Layers: Lessons from the Eel River Margin

8:45 **J. Schieber, J. Southard:** Experimental Mudstone Sedimentology — Making the Connection Between Flume Studies and the Rock Record

9:05 **P. K. Pedersen, J. H. Macquaker, B. Hart:** Detached Fine-Grained Shelf Edge Wedges Within Shale Dominated Successions, Depositional Model and Reservoir Significance

9:25 **F. Trincardi, A. Cattaneo, D. Ridente:** Anatomy of Late Quaternary Adriatic Clinoforms: Mechanisms of Sediment Transport and Mud Accumulation on the Continental Shelf

9:45 **Break**

10:30 **J. M. Rine:** Along-Strike Traction Flow of Muddy Sediments — Key to Understanding Depositional Processes of Shallow Marine Argillaceous Mudrocks: A Comparison of the Quaternary Amazon-Derived Shallow Marine Sediments with Haynesville and Mancos Shales

10:50 **S. J. Bentley:** Preservation Potential of Primary Depositional Fabric in Event-Dominated Muddy Shelf Settings: A Semi-Quantitative Facies Model

11:10 **J. H. Macquaker, S. J. Bentley, K. Bohacs, R. Lazar, R. Jonk:** Advective Sediment Transport on Mud-Dominated Continental Shelves: Processes and Products



TECHNICAL PROGRAM *Denotes speaker other than first author

11:30 E. P. Kvale, B. Coffey: Depositional Model for the Devonian Woodford Shale, Southeast Oklahoma, USA

Theme II: Siliciclastic Deep-Water Depositional Systems, Modern and Ancient I (SEPM)

Room 353/354/355

Co-Chairs: D. Minisini and C. E. Stelling

8:00 Introductory Remarks

8:05 M. L. Sweet: New Insights into the Sequence Stratigraphy of Deepwater Deposits Gleaned From the Study of Quaternary Deepwater Systems

8:25 R. Steel, A. Petter, C. Carvajal, P. Plink-Bjorklund: Greenhouse and Icehouse Margins and Shelf-Edge Trajectories: Significance for Sediment By-Pass

8:45 D. A. Armitage, J. A. Covault: "Exceptional" Turbidite Systems in High-Latitude and Tectonically Active Settings and the Obsolescence of Ubiquitous Sequence Stratigraphic Models

9:05 B. W. Romans, A. Fildani, S. M. Hubbard, J. A. Covault, S. A. Graham, J. C. Fosdick: The Influence of Tectonic Evolution on Deep-Water Stratigraphic Architecture, Magallanes Basin, Chile

9:25 H. Macdonald, D. McGee: Weakly Confined Minibasins: A Study of Architecture and Depositional History

9:45 Break

10:30 R. G. Loucks, S. P. Dutton, S. Sakurai, R. Eastwood: An Approach to Understanding Deep- to Ultradeep-Reservoir-Quality (Porosity) Risk using a Large, Regional Wireline-Log-Based Petrophysical Database in the Deep Shelf Area Along the Texas Gulf Coast

10:50 K. L. Maier, A. Fildani, C. K. Maier, S. A. Graham, T. R. McHargue, D. W. Caress, M. M. McGann: Evolution of Depositional Architecture in the Lucia Chica, A Weakly Confined Deep-Water Slope System Offshore Central California

11:10 A. M. Fernandes, J. Buttles, D. Mohrig, R. J. Steel, S. Henriksen: Laboratory-Scale Channel Formation by Sheet-Like Density Underflows

11:30 K. J. Amos, J. Peakall, P. Bradbury, M. Roberts, G. Keevil, S. Gupta: Channel Sinuosity and Sedimentation in Submarine Channels

Theme VII: Deltaic Coasts and Society: The Mississippi Delta and Beyond (SEPM)

Room 356/357

Co-Chairs: T. E. Torqvist and S. L. Goodbred

8:00 Introductory Remarks

8:05 J. R. Suter: The Role of the Mississippi in Deltaic Research and the Contributions of J.M. Coleman, H. H. Roberts, and P. Shea Penland

8:25 M. Blum, H. H. Roberts: Inevitable Drowning of the Mississippi Delta Region Due to Insufficient Sediment Supply and Global Sea-Level Rise

8:45 M. A. Kulp, D. FitzGerald, M. D. Miner, I. Georgiou: Geoscience-Based Management of the Transgressive Mississippi River Delta: Considerations for the Next Century

9:05 T. E. Tornqvist, S. Yu, Z. Shen, G. A. Milne, M. A. Kulp, J. Gonzalez: Coastal Subsidence and Accelerated Sea-Level Rise: A Dual Threat for the Mississippi Delta

9:25 J. P. Syvitski, A. J. Kettner, I. Overeem, E. W. Hutton, M. Hannon: Human and Natural Controls on a Delta's Surface Elevation Relative to Local Mean Sea Level

9:45 Break

10:30 V. Burkett: Anticipating and Adapting to Climate Change in Coastal Deltas

10:50 S. L. Goodbred, K. G. Rogers: Predicting Long- and Short-Term Climate-Related Impacts in the Bengal Delta, a Robust Natural System Limited by Societal Constraints

11:10 A. Amorosi: Response of Mediterranean Deltas to Millennial-Scale Climatic and Sea-Level Fluctuations During the Holocene

11:30 L. Giosan: Danube Delta in Anthropocene

Monday Afternoon Oral Sessions

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme II: Climatic Controls on Sedimentation (SEPM)

Room 238/239

Co-Chairs: C. M. Fraticelli and I. Overeem

1:15 Introductory Remarks

1:20 C. M. Fraticelli: Climatic Influences on Stratigraphy — Summary and Paths Forward

1:40 I. Overeem: Climatic Influences on Stratigraphy — Applications of Numerical Models

2:00 S. Banerjee, K. Ferguson, R. Gregory, P. Morrow: Variation of the Organic Carbon Isotope Ratio ($\delta^{13}C_{org}$) and the Total Organic Carbon (TOC) Within the Barnett Shale (Texas, USA): A signal of 2nd Order Sea Level Change in the Mississippian.

2:20 B. Foreman, P. L. Heller: The Alluvial Response to Climate Change During the Paleocene Eocene Thermal Maximum (~55 Ma) in the Bighorn Basin, Wyoming

2:40 M. H. Hofmann, A. Shultz, C. Hill, C. Paola: Stratigraphic Architecture and Key Stratigraphic Surfaces Formed by Punctuated Flow Events — An Experiment on Fluviodeltaic Responses

3:00 Break

3:45 J. A. Covault, B. W. Romans, A. Fildani, M. M. McGann, S. A. Graham: Rapid Climatic Signal Propagation from Source-to-Sink in a Southern California Sediment-Routing System

4:05 T. Nakajima, H. Katayama, T. Itaki: Climatic Control of Turbidite Deposition During the Last 70 ka Along the Toyama Deep-Sea Channel, Central Japan Sea

4:25 A. Husinec, F. J. Read: Sequence Stratigraphy, Carbon Isotope Signature, and Dolomitization of a Late Jurassic Greenhouse Platform, Croatia

4:45 J. Li: Analysing the Character and Cause of Formation of Redbeds of Yaojia Formation in the North of Songliao Basin

Theme IV: Discovery Thinking Forum (AAPG/DPA/HOPG)

Room 243/244/245

Co-Chairs: C. Sternbach and E. Dolly

1:15 Introductory Remarks

1:30 J. Amoroso: East Texas, Deep Bossier Sandstone — Amoroso Field

2:00 M. Brittenham: "Unconventional" Discovery Thinking in Resource Plays: Haynesville Trend, North Louisiana

2:30 G. Robertson: From First Idea to 10 TCF in 10 Months: Discovery of Eagle Ford Shale in the Hawkville Field, LaSalle and McMullen Counties, Texas

3:00 Break

3:40 B. Zagorski: The Appalachian Marcellus Shale Play — Discovery Thinking, Timing, and Technology

4:10 M. C. Forrest: Learning from 40 Years Experience Risking Seismic Amplitude Anomaly Prospects

5:35 D. Smith: Discovery Thinking Has led To 70 Years of Continued Exploration and Development at Stella Salt Dome, Plaquemines Parish, Louisiana

Michel T. Halbouty Lecture: Shale Gas and America's Energy Future (AAPG)

Room 243/244/345

See Summary page 7

Chair: T. Hudson

5:10 p.m. – 6:00 p.m.

Speaker: Aubrey McClendon

Theme V: Seismic Interpretation of Faulted Reservoirs: How to Get the Right Answer the First Time (AAPG)

Room 252/253/254

Co-Chairs: R. W. Krantz and G. Yeilding

1:15 Introductory Remarks

1:20 T. Neely, R. W. Krantz: Perceptive Interpreter Training: Integrating Structural Insights, Volumetric Tools and Spatial Thinking

1:40 A. Mironova, J. Thompson: Enhanced Visualization of Seismic Attributes for Structural Interpretation

2:00 S. R. Freeman, S. D. Harris, N. A. McCabe*, V. O'Connor, K. Wood: Streamlining Seismic Interpretation Within the 3-D Workspace

2:20 C. E. Bond, Z. K. Shipton, E. Macrae, C. Philo: When There Isn't a Right Answer — Dealing with the Uncertainty of Seismic Interpretation to Maximise Success

2:40 E. Macrae, C. E. Bond, Z. K. Shipton: Uncertainty Analysis of Geological Interpretations

Theme V: Intra-plate Deformation and Inversion Tectonics: Causes and Petroleum Implications (AAPG)

Room 252/253/254

Co-Chairs: B. Trudgill and J. R. Underhill

3:40 Introductory Remarks

3:45 P. Krzywiec: Paleozoic to Miocene Intra-Plate Tectonics and Basin Inversion Along the Teisseyre-Tornquist Zone in Poland and Its Bearing on Hydrocarbon Potential: A Synthesis

4:05 G. Bayona, A. Mora Bohorquez, M. Cortes, A. Cardona, C. Jaramillo, C. Montes, V. Valencia: Migration of Synorogenic Cenozoic Depocenters Due to Multi-Phase Inversion of the Eastern Cordillera of Colombia

4:25 P. A. Emmet, P. Mann: Early Cenozoic Rift Inversion: Key to Understanding the Structural Framework and Petroleum Potential of the Nicaraguan Rise

4:45 S. Dorobek: Driving Forces and Regional Effects of Cenozoic Tectonic Inversion Across the South China Sea Region

Theme II: Numerical and Physical Modeling of Climatic and Tectonic Controls on Sedimentation (SEPM/AAPG)

Room 255/256/257

Co-Chairs: C. Lerch and K. Straub

1:15 Introductory Remarks

1:20 M. Lamb, D. Mohrig, B. McElroy, B. Kopriva, J. Shaw: Source-to-Sink: Connecting Hyperpycnal-Flow Deposits to River-Flood Dynamics

1:40 A. B. Peyret, D. Mohrig, M. Lamb, B. McElroy: Determining How Much Topographic Complexity Must Be Incorporated into Models for Depositional Turbidity Currents Filling Sinuous Submarine Channels and Constructing Channel Levees

2:00 R. Manica, J. Baas, R. Maestri, J. Peakall, A. O. Borges: A First Experimentally Derived Classification of Submarine Sediment Gravity Flows



TECHNICAL PROGRAM *Denotes speaker other than first author

MONDAY AFTERNOON ORALS

- 2:20 B. Chauveau, V. Teles*, P. Joseph:** Modeling Turbiditic Currents Based on the Minimization of Energy: Importance of the Turbulent Energy Budget.
- 2:40 M. Nasr-Azadani, S. Saegeler, M. Zoellner, E. Meiburg*, B. Kneller:** Computational Investigations of Turbidity Currents in Complex Topographies
- 3:00 Break**
- 3:45 M. A. Wolinsky:** Upscaling Sedimentary Processes: From Bed to Basin
- 4:05 S. F. Leclair:** Predicting Preserved Stratigraphy from Dunebed Topography After Annual Peak Flows in a Modern Large River
- 4:25 M. M. Perillo, M. Yokokawa, T. Sekiguchi, T. Takagawa, Y. Hasegawa, F. Pedocchi, M. H. Garcia, J. Best:** Bedform Morphology Under Combined Flows
- 4:45 P. L. Paraizo, M. A. Moraes, R. N. Elias, A. L. Coutinho:** 3-D Turbulent Process Modeling of the Dynamical Flow-Bottom Interaction

Theme IV: Middle East (AAPG)

Room 338/339

Co-Chairs: C. Caughey, C. Heine and T. Hassan

- 1:15 Introductory Remarks**
- 1:20 D. I. Sanabria:** Shale Gas Opportunities in Saudi Arabia: Initial Screening of the Mazalij Area, Eastern Province
- 1:40 J. W. Buza:** An Overview of Heavy Oil Carbonate Reservoirs in the Middle East
- 2:00 G. D. Zaeff, C. Liu, K. A. Soofi, T. Hassan:** Characterizing Fracture Sets at Outcrop Exposures Using High Resolution Remote Sensing Data; Developing a Fracture Model as Input into a Static Geomodel
- 2:20 W. Kent:** Structures of Northern Iraq and Syria, and Their Implications for Interpretation of the Region's Stratigraphy
- 2:40 R. F. Lindsay, W. Hughes, S. Aba Al-Hassan:** Khuff-A Reservoir Porosity Creation and Destruction: A Product of Depositional and Diagenetic Processes

Theme IV: North Africa (AAPG)

Room 338/339

Co-Chairs: B. Bosworth and J. Redfern

- 3:40 Introductory Remarks**
- 3:45 F. Wehr, W. AbdelAziz, S. Grant, A. Gray, D. Reiber, P. Sackmann, J. St. John, B. Bosworth:** Recent Oil and Gas Discoveries in the Jurassic and Lower Cretaceous of Northwestern Egypt (Western Desert) and Implications for Future Prospectivity
- 4:05 J. C. Fiduk:** Examination of the Libyan Mediterranean Margin Using Regional 2-D Seismic Data
- 4:25 E. P. Lewandowski, H. Jäger, R. Zuehlke*, T. Bechstädt, U. A. Glasmacher, B. Wirth:** Integrated Basin and HC Systems Model, Silurian-Carboniferous, Southern Algeria
- 4:45 B. Ghorbal, P. Andriessen:** Importance of the Early Cretaceous Exhumation of the Western African Craton for the Oil Exploration

Theme VIII: Assessment of Unconventional Resources (EMD)

Room 343/344/345

Co-Chairs: R. R. Charpentier and P. Stark

- 1:15 Introductory Remarks**
- 1:20 T. Cook, R. R. Charpentier:** Assembling Probabilistic Performance Parameters of Shale-Gas Wells
- 1:40 R. R. Charpentier, T. A. Cook:** Applying Probabilistic Well-Performance Parameters to Assessments of Shale-Gas Resources
- 2:00 K. J. Steffen:** Using Bayesian Belief Networks to Evaluate Continuous Gas Resources (Shale Gas, Tight Gas, and Coal Bed Methane): Tools to Calibrate the Expert and Exploit Knowledge
- 2:20 G. M. Kaufman, J. Schuenemeyer:** Assessing Alaskan Gas Hydrates — How to Handle Probabilistic Dependencies
- 2:40 R. A. Olea, T. A. Cook, J. L. Coleman:** Modeling of an Unconventional Gas Accumulation Taking into Account Spatial Correlation
- 3:00 Break**
- 3:45 K. C. Hood, D. A. Yurewicz:** Incorporating Geologic Insights into Shale Gas Assessments
- 4:05 F. E. Walles:** Shale Gas System Producibility Characteristics — How/Why May Producibility Vary?
- 4:25 D. A. Edwards, J. M. Coss, K. M. Dickerman, R. A. Gilcrease, J. C. Weaver, G. C. Wiszniewskas:** Oil and Gas Resource Estimates for Permian Wolfberry Trend Reservoirs in Eastern Reagan County, West Texas
- 4:45 Z. Caineng, T. Shizhen, Y. Xuanjun, Z. Rukai, H. Lianhua, J. Jinhua, W. Lan, G. Xiaohui, Z. Xiangxiang, Y. Chun, Y. Zhi:** Concepts, Geological Characteristics and Evaluation Techniques for Continuous Petroleum Accumulations in China

Theme II: Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models I (SEPM)

Room 353/354/355

Co-Chairs: J. Dischinger and R. J. Steel

- 1:15 Introductory Remarks**
- 1:20 B. J. Willis, B. Bracken, T. Payenberg:** Another Look at Fluvial Sequence Stratigraphy
- 1:40 P. L. Heller, E. Hajek, J. L. McHarge:** Channel-Belt Clusters as an Exploration Target in Alluvial Basins
- 2:00 S. M. Hubbard, D. G. Smith, D. A. Leckie, M. Fustic:** Predicting Heterogeneity in Meandering River Deposits: The Point Bar to Counter Point Bar Transition
- 2:20 M. E. Donselaar, I. Overeem:** Processes and Reservoir Architecture of Terminal Sheet Sandstone in a Low-Gradient Fluvial Setting: Integrated Outcrop, Subsurface and Numerical Forward Modeling Approach
- 2:40 G. W. Lowey:** Sedimentology and Petroleum Source-Rock Potential of Hyperpynites in the Laberge Group (Jurassic), Whitehorse Trough, Yukon, Canada
- 3:00 Break**

- 3:45 T. M. Smith, L. R. Bartek:** Stratigraphy of Lower Hinton Formation: A record of Transgressive-Regressive Episodes Preserved in the Ancient Coastal Plain and Estuaries of the Upper Mississippian Appalachian Basin, West Virginia, USA
- 4:05 U. P. Agharanya, C. O. Okogbue, O.C. Egbu:** Sequence Stratigraphy and Paleoenvironmental Reconstruction of the Cretaceous-Tertiary Successions of the Western Rim of the Anambra Basin, S. E. Nigeria
- 4:25 R. Boyd:** Facies Models for Transgressive Wave Dominated Coasts
- 4:45 E. Nickel, D. Kohlruess:** The Bakken Oil Play of Southeast Saskatchewan: Stratigraphy, Facies Analysis and Sedimentology

Theme II: Mixed Siliciclastic and Carbonate Depositional Environments and Systems, Modern and Ancient (SEPM)

Room 356/357

Co-Chairs: B. Coffey and L. Eliuk

- 1:15 Introductory Remarks**
- 1:20 L. Eliuk, G. D. Wach:** Large Scale Mixed Carbonate-Siliciclastic Clinoform Systems: Three Types from the Mesozoic North American Atlantic Offshore
- 1:40 A. Embry:** Sequence Stratigraphic Analysis of Mixed, Reefal Carbonate and Siliciclastic Systems
- 2:00 P. F. Holterhoff:** Proximal to Distal Expression of Carbonate — Mudrock Rhythmites of the Lower Permian Lueders Limestone, Texas: Record of High-Frequency Climate Change on the Eastern Shelf, Midland Basin
- 2:20 M. Morsilli, F. Bosellini, L. Pomar, M. Aurell, C. A. Papazzoni:** Coral Buildups in Oligophotic, Nutrient-Rich, Siliciclastic Prodelta Settings (Late Eocene, Southern Pyrenees, Spain): An As Yet Unexplored Play?
- 2:40 E. Gischler, R. N. Ginsburg, J. Herrle:** Mixed Carbonates and Siliciclastics in the Quaternary of Southern Belize: Pleistocene Turning Points in Reef Development Controlled by Sea-Level Change

Theme V: Continental Breakup Processes and Their Implications for Exploration Models in Rift and Passive Margin Settings (AAPG)

Room 356/357

Co-Chairs: M. Nemcok and S. T. Sinha

- 3:40 Introductory Remarks**
- 3:45 S. T. Sinha, M. Nemcok, M. Choudhuri, A. Misra, S. P. Sharma, N. Sinha, S. Venkatraman:** The Crustal Architecture and Continental Break Up of East India Passive Margin: An Integrated Study of Deep Reflectaon Seismic Interpretation and Gravity Modeling
- 4:05 N. Kusznir, G. Manatschal:** The Mode of Continental Breakup Lithosphere Thinning and Its Implications for Rifted Margin Crustal Structure, Subsidence and Heat-Flow History
- 4:25 L. Geoffroy:** Volcanic Margins: Another Way to Break the Lithosphere?
- 4:45 P. Lonsdale, J. Kluesner:** Detachment of Baja California from Mainland Mexico, and the Ongoing Creation of Rifted and Sheared Continental Margins Within the Gulf of California

MONDAY MORNING POSTERS

Monday Morning Poster Sessions

Presenters in their Booths (10:00 a.m. – 12:00 p.m.)

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme XII: Selected Academic Research Topics: Student Presentations (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: S. Waters and B. Hottman

- T. Alvarez, P. Mann:** Tectonic Habitat of Hydrocarbons in the Deep- and Ultra-Deepwater Frontier Areas of Trinidad and Tobago
- J. M. Phillips, M. K. Gingras, M. Caplan:** Facies Architecture and Trace Fossils of the McMurray Formation: Interpreting the Depositional Setting in the MacKay Area of the Athabasca Oil Sands
- M. L. Boyce, T. R. Carr:** Stratigraphy and Petrophysics of the Middle Devonian Black Shale Interval in West Virginia and Southwest Pennsylvania

- C. Campbell, C. MacDonald, J. Cribb, J. Adam, M. Nedimovic, C. Kreszek, D. Grujic:** The Salt Tectonic Evolution of the North-Central Scotian Margin: Insights from 2-D Regional Seismic Data and 4-D Physical Experiments
- A. B. Rodriguez, P. Mann, W. E. Galloway:** Effects of Laramide Foreland Basin Tectonics on Structure, Subsidence, and Hydrocarbons of the Mexican Sector of the Gulf of Mexico
- C. B. Fefchak, J. Zonneveld, L. McHugh:** Development and Utilization of Geochemical Correlation Techniques for Advanced Stratigraphic Control in the Charlie Lake Formation, British Columbia, Canada

- C. R. Neagu, J. A. Cartwright, R. Davies:** A New Quantitative Approach to Predicting Physical Property Changes During Diagenesis of Mudstones
- J. S. Claringbould, B. L. Blake, T. R. Birdsall, J. Sarg, B. Trudgill:** Intergrated Geomodelling of a Salt-Cored Carbonate Dome, Jebel Madar, Oman
- M. Giles, D. Mosher, G. D. Wach:** Mass Transport Processes on Slope Sedimentation: Sediment Distribution on the SW Newfoundland Slope, Eastern Canada
- K. Shalek, K. Cox, J. J. Daniels:** Monitoring CO₂ Injection with Seismic and EM Methods



TECHNICAL PROGRAM *Denotes speaker other than first author

- **M. Swierczek, H. Lever, J. R. Underhill, D. Millward:** Role of the Base Permian Unconformity in Controlling Carboniferous Reservoir Prospectivity, UK Southern North Sea
- **J. Koch, T. Frank:** Globally Synchronous Exposure of Tropical Carbonate Platforms at the Pennsylvanian-Permian Boundary Correlated with Onset of Major Gondwanan Glaciation: Implications for Petroleum Exploration
- **S. Adams, S. Adams:** Modeling Basin Evolution and Assessing Source Rock Potential Within the Orange Basin, Offshore South Africa
- **T. E. Hearon IV, M. G. Rowan, R. Kernen, B. Trudgill:** Lateral Salt Emplacement at the Christmas Tree Diapir, Pinda Springs, South Australia
- **A. M. Ranson, R. Gani, G. Hampson, N. Gani, H. Sahoo:** Complex Land-Ocean Interplay in Marginal-Marine Deposits: Transitions of Shallow-Marine Star Point Formation to Coastal-Plain Blackhawk Formation, Wasatch Plateau, Utah

Theme X: Future of U. S. Energy (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: P. A. Moses and P. K. Wieg

- **B. L. Kirkland, G. Thibaudeau, K. S. McNeal, K. Sherman-Morris, N. L. Baghai Riding, E. Meek, O. E. Dickerson, M. M. Jennings, B. Dutrow, A. M. Lawrence, D. W. Schmitz:** Human Resources for the Energy Workforce of the Future: Finding the Best Employees Requires Addressing Diversity Now
- **S. Rigaud, R. Martini, G. D. Stanley:** The Upper Triassic Martin Bridge Formation (Wallowa Terrane, Oregon): A Potential Carbonate Petroleum Reservoir?
- **A. Lowrie, R. Reynolds:** Planetary Spheres (i.e., Atmosphere, Hydrosphere, Lithosphere, Biosphere) Interact to Form Conditions Appropriate for Hydrocarbon Existence

Theme IV: North Africa (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: B. Bosworth and J. Redfern

- **R. Woolam, T. Pearce*:** A New Approach to Stratigraphic Analysis in the Pre-Upper Cretaceous of the Sirt Basin, Libya
- **A. Clare, D. Helgeson, M. Pasley, D. Kelly, W. Brown, G. McDaniel, T. Maher, M. Oldani:** Exploring and Developing New Plays in the Eastern Abu Ghardig Basin, Western Desert, Egypt
- **R. G. Ineh, G. U. Agha, O. C. Okparaajiako, S. A. Babalola:** Unveiling Nigeria Petroleum Province Deep Potentials
- **A. Elhabab, E. Aladsani:** Facies Analysis, Sedimentary Environments and Depositional Evolution of the Early Cretaceous Sediments at Elminsheral Mountain, North Sinai, Egypt
- **A. S. Alsharhan, H. S. Hassan, C. G. Kendall:** Oil and Gas Fields Database from Sirt Basin, Libya

Theme VI: Sedimentation and Tectonics in Rifts (SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: K. Giles and C. Yeilding

- **C. Xu, X. Zhou:** Genetic Types of Paleogene Slope Break Zones and Their Controls on Depositional System in Bohai Offshore Area
- **E. Elliott, J. Lorenzo:** Growth Faults and Relay Ramps: A High-Resolution Seismic Survey, Livingston Parish, Louisiana
- **C. A. Elenwa, M. P. Watkinson, M. Anderson:** Tectono-Stratigraphic Controls on Reservoir Distribution in Offshore Sierra Leone Basin
- **J. Thurmond, I. Lunt, B. Pilskog:** Drainage Area Changes of Northern Mozambique and Implications for Petroleum Exploration
- **V. Singh, K. B. Trivedi, A. N. Lange, N. Jukuda:** Strati-Structural Evolution and Its Signatures on Sedimentation Pattern of the Olifants Subbasin, Orange Basin, South Africa

Theme II: Climatic Controls on Sedimentation (SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C. M. Fraticelli and I. Overeem

- **A. M. Trendell, S. C. Atchley, L. Nordt:** Channels, Overbanks and Paleosols: The Relationship Between Climate, Base Level and Lithofacies Heterogeneity Within the Triassic Sonsela Member, PFNP Arizona
- **S. T. Hasiotis, I. Moffat, M. Reilly:** Preliminary Report on the Neochology, Sedimentology, and Geomorphology of Pointbar and Levee Deposits of the Darling River on Bindara Station, Pooncarie, New South Wales, Australia

- **A. C. Templet, L. Soreghan:** Paleogeographic and Paleoclimatic Implications of Widespread Eolian Deposition in the Middle Permian of Oklahoma
- **G. A. Augsburg, L. Soreghan, M. J. Soreghan:** Origin and Paleoclimatic Implications of Silt in the Pennsylvanian Bird Spring Formation (Arrow Canyon, Nevada)
- **P. Labrecque, S. M. Hubbard, J. L. Jensen:** Sedimentology and Architecture of Point Bar Deposits, Cretaceous McMurray Formation, Alberta: Cyclic Sedimentation and Heterogeneity Prediction
- **Z. Feng:** Organic Geochemical Response to the Sequence Boundary Developed During the Depression Stage of the Big Songliao Lacustrine Basin and Its Paleo-environmental Significance: Evidence from Well SK1 of the Continental Scientific Drilling

Theme II: Numerical and Physical Modeling of Climatic and Tectonic Controls on Sedimentation (SEPM/AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C. Lerch and K. Straub

- **N. P. Mountney:** A Numerical Stratigraphic Model for Mixed Fluvial-Eolian Successions: Implications for Reservoir Prediction
- **K. J. Cooper, P. L. Smart:** Is Milankovitch Cyclicity Recognizable in Carbonate Sequences? Numerical Experiments Using the Forward Model CARB3D+
- **G. Keevil, W. D. McCaffrey:** Submarine Channel Processes: Experimental Insights into the Location and Magnitude of Channel Overspill
- **Z. Khan, B. Arnott:** Experimental Modeling of Multiple Non-Climbing Ripple Set Beds from Suspended Particle Fallout
- **M. Patacci, W. D. McCaffrey, P. D. Haughton:** Role of Internal Waves Within Pondered Turbidity Currents: Experimental Data and Deposit Implications
- **M. Tilston, B. Arnott, C. Rennie:** The Role of Grain Size on Flow Structure and Concentration Profiles in Sediment Gravity Currents

Theme II: SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: M. Blum and C. Paola

- **O. Takano, C. Paola, P. L. Heller:** Categorization of Basin-Filling Succession Trends Based on the Basin Mass Balance Between Accommodation and Sedimentation
- **R. Hocking, P. E. Playford:** Tectonics, Eustasy and Climate: Controls on Cyclicity, Devonian Reef Complexes, Canning Basin, Western Australia
- **W. Paulissen, S. M. Luthi, P. Grunert, M. Harzhauser, S. Çoriç, J. R. Püttmann:** Evaluating the Relative Contributions of Tectonics and Eustasy from a High-Resolution Stratigraphic Record: A Case Study from the Vienna Basin
- **R. Widiarti, G. Jiang:** Carbonate Cycles and Their Controlling Mechanism During Furongian Greenhouse Time: An Example from the Big Horse Member of the Orr Formation in Western Utah
- **A. Peterhänsel, S. O. Egenhoff*, E. Samankassou:** The Latemar — A Stayer Carbonate Platform in a Post-Extinction World
- **A. Embry:** Differentiating Allogenic Deposits from Autogenic Deposits by the Delineation and Correlation of Maximum Regressive Surfaces

Theme V: Intra-plate Deformation and Inversion Tectonics: Causes and Petroleum Implications (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: B. Trudgill and J. R. Underhill

- **F. Garavito, B. Trudgill, C. Kluth:** Structural Inversion and Exploration Implications in the Cagüi Sector, Northern Middle Magdalena Valley Basin, Colombia
- **S. Chakrabarti, H. Singh, D. Similox-Tohon, R. E. Polanco Ferrer, M. S. Akhtar, R. Singh:** Structural Style of Assam Shelf and Schuppen Belt — Revisiting the Naga Imbricate Thrust Complex
- **C. S. Whitehill, P. Mann, A. Escalona, C. A. Vargas Jimenez:** Tectono-Stratigraphic Framework of the Western Maracaibo Block, Colombia-Venezuela: Implications for Hydrocarbon Exploration
- **C. Armandita, J. A. Paju, M. Mufti, N. Mujahidin:** Inverted Intra Arc Transtensional Deepwater Basin in West Central Java Border: New Interpretation of Basin Evolution and Its Implication to the Petroleum System

- **F. Ning, L. Tang:** Inversion Tectonics in Central Tarim Basin, Northwest China: Geometric Characteristics and Petroleum Implications
- **C. Xiang:** Late-Stage Tectonic Inversion and Its Geodynamic Significance: Evidence from the Uplifting and Denudation History of the Songliao Basin

Theme I: Rock Physics and Quantitative Seismic Analysis (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: E. Clark and S. M. Porche

- **K. T. Spikes:** Statistical Classification and Wavelet-Transform Analysis for Volumetric Estimates
- **B. Woehrl, S. Wessling, A. Bartetzko, J. Pei, J. Renner, T. Dahl:** Comparison of Log-Based Rock Mechanical Properties Utilizing Different Volumetric Sources
- **M. Fawad, N. H. Mondol, J. Jahren, K. Bjørlykke:** Physical Properties of Sandstones Based on Experimental Compaction
- **Q. Dou, Y. Sun, C. Sullivan:** Characterization of Carbonate Reservoir Permeability Heterogeneity by Integrating Rock Physics Model, Core Measurement and Petrophysical Data
- **N. H. Mondol, J. Jahren, T. Berre, L. Grande, K. Bjørlykke:** Permeability Anisotropy in Mudstones
- **M. R. Yenugu, M. Angelo, K. J. Marfurt, S. Matson:** Seismic Attribute Analysis of a Mississippian Chat, Osage County, Northeast Oklahoma
- **K. Verwer, G. P. Eberli:** Effect of Pore Space Geometry on Electrical Resistivity in Carbonates

Theme V: Salt, Sub-Salt and Pre-Salt Tectonics, Models, and Hydrocarbon Traps (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: I. Davison and M. R. Hudec

- **W. R. Wright, R. da Cunha, H. C. Reis, C. M. Quintaes, M. V. Nunes, M. Tomasso, H. S. Nance, C. Kerans:** Pre-Salt Seismic Sequence and Depositional Evolution of the Campos Basin, Brazil
- **X. Zhou, Y. Yu, W. Peng:** Salt Structures in the Laizhouwan Deposition, Offshore Bohai Bay Basin, Eastern China: Implications for Structural Models and Hydrocarbon Exploration
- **Y. Yu, L. Tang:** Salt Structural Deformation and Hydrocarbon Traps in the Tarim Basin, Northwest China
- **C. He, L. Tang:** Salt-Related Structural Characteristic, Forming Mechanism and Related Traps in Tazhong Area, Tarim
- **P. Wilson, G. Elliott, C. A. Jackson, R. Gawthorpe, S. Hansen:** Structural Geology and Evolution of an Evaporite-Detached Normal Fault System: The Bremstein Fault System, Eastern Halten Terrace, Offshore Mid-Norway
- **W. Jones, L. Hawkins, L. Joaquim:** The Pre- and Post-Salt Structure of the Angolan Salt Province — A 3-D Seismic Study
- **M. R. Hudec:** Is There a Subsalt Foldbelt in the Central U.S. Gulf of Mexico?
- **S. Dorobek:** Local to Regional Controls on Syn-Halokinetic Carbonate Platform Growth Within Extensional Tectonic Settings

Theme V: Slope Systems Deformed by Gravity Processes (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: G. Apps, F. J. Peel and T. Meckel

- **J. D. Chatellier, M. Rueda:** Challenging the Paradigm "Missing Section — Normal Fault" — Implications for Hydrocarbon Exploration
- **I. Clark, J. Cartwright:** Fold Growth in the Salt-Detached Eastern Nile Deepwater Fold Belt: Influence on Post-Messinian Sedimentation Processes
- **J. Clark:** NW Sabah Deepwater Delta Tectonics: A Genetic Link Between Contrasting Deepwater Structural Domains
- **S. King, J. A. Cartwright:** Mass Transport Deposits and Their Role in Thin Skinned Tectonics — An Example from the Northwest Niger Delta
- **S. E. Richardson, M. B. Allen, R. Davies, S. F. Grant, K. J. McCaffrey:** Extensive Mass-Wasting on Active Folds of the Caspian Sea: Geomorphology and Failure Mechanisms
- **D. Iacopini, R. W. Butler:** Seismic Characterization of Discontinuities Zones from a Deepwater Fold-and-Thrust System, Niger Delta
- **M. T. Ireland, R. Davies, N. R. Goult:** Polygonal Fault Orientations Disrupted by Underlying Turbidite Channels on the Mauritanian Margin
- **D. B. Dunlap, L. G. Moscardelli, L. Wood:** Mass-Transport Complexes from the Northwest African Shelf as Indicators for Continental Margin Development



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Theme IV: Middle East (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C. Caughey, C. Heine and T. Hassan

- **C. M. Burberry, M. D. Greb, M. Laughland, B. Dudley-Murphy, G. Nash, M. Iraqi Kurdistan Region:** Integrated Remote Sensing, Structural and Petroleum Systems Modeling of the Iraqi-Kurdish Fold Belt
- **T. Al-Ameri, M. E. Naser, H. Al-Haydari, J. K. Pitman, J. Zumberge:** Timing and Extent of Oil Generation in the Zubair Formation, Southern and Western Iraq: Results from 1-D Petroleum System Models and Geochemical Analysis
- **A. Alsharhan, C. Kendall:** Holocene Carbonates and Evaporites and Their Ancient Analogous Assemblages Throughout Permo-Triassic and Jurassic Reservoirs of the Arabian Basin
- **A. M. Bakhiet, D. Z. Tang, A. Gregory, P. Lawrence, P. Rabiller, B. Macurda:** Exploring Jurassic Carbonate Stratigraphic Traps by Integrating Sequence Stratigraphy, Petrophysical Characterization, and 3-D Seismic Facies Modeling, Northern Saudi Arabia
- **N. Marouf, M. Al-Gailani*:** Structural Evolution and Development of Hydrocarbon Accumulations in the Tigris Structures: Tikrit, Samarra, Balad and East Baghdad Fields
- **S. A. Azim, Y. Hassan, H. M. Najeh, B. Al-Otaibi, A. Mousawi, B. Al-Saad:** The Emerging Play in Highstand Systems Tract of Burgan Formation in North Kuwait.
- **N. Marouf, M. Al-Gailani:** Structural Analysis of the Zagros Fold Belt in Northern Iraq
- **M. Al-Gailani, N. Marouf:** Modeling of Source Rock Maturation and Hydrocarbon Formation in Northern Iraq
- **G. Roberts, C. Harmer, D. Peace:** Plays and Prospectivity Offshore Lebanon, Syria and Cyprus: New Insights from Depth-Imaged Seismic Data

Theme II: Mixed Siliciclastic and Carbonate Depositional Environments and Systems, Modern and Ancient (SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: B. Coffey and L. Eliuk

- **D. F. McNeill, S. Elliott, J. S. Klaus, J. Perez:** The Nature of Neogene Mixed System Clinothems: Cibao Basin, Dominican Republic

- **L. Navarro, P. Gammon, B. Arnott:** Deep-Water Siliciclastic-Carbonate Sedimentation in the Windermere Turbidite System, Canada: Influence of Sea-Level, Sediment Supply and Composition
- **F. M. Alkhalidi, A. Tawil, J. Read:** Controls on Sequence Stratigraphy of Miocene Mixed-Carbonate-Siliciclastic Systems, Early Miocene, Dam Formation, Eastern Saudi Arabia
- **M. Zeller, K. Verwer, G. P. Eberli, J. Massafiero, E. Schwarz, L. A. Spalletti:** A New Depositional Model for the Upper-Jurassic — Lower-Cretaceous Mixed Carbonate Siliciclastic System in the Neuquén Basin, Argentina
- **D. Ortega-Ariza, H. Santos-Mercado, E. Franseen:** An Emerging Quantified Sequence Stratigraphy and Relative Sea-Level History for Mixed Carbonate and Siliciclastic Tertiary Sequences, Puerto Rico
- **D. Fike, L. B. Smith:** A Combined $\delta^{13}C$ — $\delta^{34}S$ Approach for Chronostratigraphic Correlation Across Mixed Carbonate-Siliciclastic Systems
- **R. Lellis, P. F. Holterhoff:** Transgressive-Dominated Architecture of the Bead Mountain Sequence (Lower Permian), Texas: Implications for Evolving Sequence Architectures in the Midland Basin
- **R. Alway, P. F. Holterhoff, R. Broomhall, G. Ottinger, S. Kaczmarek, M. Hicks, T. Hensley, E. Miles, C. Iannello-Bachtel:** High-Resolution Sequence Stratigraphy of the Grayburg Formation (Permian) from Last Chance Canyon, New Mexico.
- **D. Udgata, F. R. Ettensohn:** Significance of the Marine Green-Clay Mineral Facies from Lower-Middle Mississippian Rocks in the Western Appalachian Basin, South-Central Kentucky
- **D. L. Marin, H. Niño, V. Ramirez, G. Ojeda, V. Torres, F. Niño:** Imaging and Imagining Transitional Sedimentary Environments: A Paleogeographic Reconstruction of Northern Colombia

Theme II: Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models (SEPM/AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: R. J. Steel and J. Dischinger

- **M. Tomasso, G. Murrell, B. M. Reyes, G. Thyne, G. G. Forney, D. D. Shier:** Regional Analysis of the Permian Upper Minnelusa Formation, Powder River Basin, Wyoming: Application to Exploration and Development

- **O. Thomas-Ideh:** Sequence Stratigraphic Update of the 3-Series of the Troll Field Reservoir
- **M. Horton, P. F. Holterhoff:** Depositional Systems and Sequence Stratigraphic Relationships of the Upper Clear Fork — Lower San Angelo Interval (Permian), Eastern Shelf, Midland Basin, Texas
- **R. Krueger, M. LoParco, J. Bhattacharya:** Strike Variability Within a Wave-Influenced Delta, the Gallup Sandstone, Shiprock, New Mexico
- **J. D. Horn, C. Fielding, R. Joeckel, P. R. Hanson, A. Young:** Stratigraphy of the Central Platte River Sand Body Near Grand Island, Northeast Using Surface and Subsurface Geological and Geochronological Techniques
- **B. Legler, H. D. Johnson, G. Hampson, M. D. Jackson, C. A. Jackson, A. N. El-Barkooky, R. Ravnas, D. Alsop, X. Le Varlet:** Characterization of a Tide-Dominated Heterolithic Reservoir Analog: The Eocene Dir Abu Lifa Member (Western Desert, Egypt)
- **M. C. Robinson:** High-Density Well Log Correlation of the Upper Cretaceous Section; Webb, LaSalle, McMullen and Atascosa Counties, Texas
- **M. I. Olariu, C. Carvajal, R. J. Steel, C. Olariu:** Process and Architectural Evolution During Deltaic Cross-Shelf Transits — Fox Hills Deltas, Washakie Basin, Wyoming
- **S. Punnette, L. Wood, P. Mann:** Tectonic and Eustatic Controls on the Origin of Shelf Sands and Associated Facies, Offshore NCMA Area of Trinidad and Tobago
- **T. K. Mathuria, A. C. Julka, P. K. Dimri, P. B. Pandey:** Hydrocarbon Prospectivity in the Stratigraphic Traps Within Cambay Shale, Broach Sub Block, Cambay Basin, India
- **P. Lis:** Architecture of Miocene Nearshore Bar and Rip-Channel Deposits (Carpathian Foredeep, Ukraine): Implications for Hydrocarbon Reservoirs
- **K. Choi:** External Control on the Architecture of Inclined Heterolithic Stratification of Macrotidal Sukmo Channel, West Coast of Korea: Wave Versus Rainfall

Monday Afternoon Poster Sessions

Presenters in their Booths (3:00 p.m. — 5:00 p.m.)

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme VIII: Assessment of Unconventional Resources (EMD)

Exhibition Hall 1:15 p.m. — 5:00 p.m.

Co-Chairs: R. R. Charpentier and P. Stark

- **S. Bujor, D. Thenin, I. Perry, A. Kuran, K. Toews:** Evolution of a Field Scale Static Reservoir Model for a Steam Assisted Gravity Drainage (SAGD) Project in the Athabasca Oil Sands, Northeast Alberta, Canada
- **P. Hackley:** Geological Characterization of Lower Cretaceous Pine Island (Pearsall Formation) Shales as a Potential Resource Play in the Maverick Basin, South Texas: An Update
- **D. Russum:** Evaluating Unconventional Gas — The Questions We Need to Answer
- **J. Schieber:** The Petrographic and Sedimentological Context of Pore Types in the New Albany Shale — SEM Observations on Ion-Milled Samples
- **K. A. Heslop:** Generalized Method for the Estimation of TOC from GR and Rt
- **P. Leach:** Applying Economic Lessons from Unconventional Plays Back to Conventional Projects
- **A. A. Brown:** Formation of High Helium Gases: A Guide for Explorationists

- **M. F. Jimenez Jacome, M. Garcia Gonzalez, Y. Cortes:** Geochemistry of Coalbed-Methane Reservoirs in the Bogota Basin, Colombia
- **M. Vasquez, M. Garcia-Gonzalez, E. Torres, T. Joppen:** Coal Bed Methane Potential of the Barco - Los Cuervos Formation in the Cesar Valley Sub Basin, Colombia
- **S. S. Paul:** A Synopsis on the CBM Prospect of the Jamalgonj Coal Field in Bangladesh
- **J. J. Graham, S. J. Davies, J. H. Macquaker, M. J. Norry:** Bashkirian Mudstones, Implications for Shale Gas Source Rock Development
- **P. Watson, C. R. Keegan*, M. Urbat, R. Harding, G. Spence:** Utilizing New Technologies to Better Understand Porosity and Permeability Relationships to Mineralogy and Organic Matter in Shale Gas Reservoirs
- **A. Cui, M. R. Bustin, R. Brezovski, B. Nassichuk, K. Glover, V. Pathi:** Simultaneous Measurements of In-Situ Effective Permeability and Porosity Under Reservoir Conditions: A Consistent Approach to Characterize Unconventional Gas Reservoirs
- **R. Klimentidis, R. Lazar, K. Bohacs, W. Esch, P. Pedersen:** Petrographic Characterization of Mudstones

- **E. I. Egbobawaye, J. Zonneveld, M. K. Gingras:** Tight Gas Reservoir Evaluation in Montney Formation and Lower Doig Formation, Northeastern British Columbia, Western Canada

Theme I: Geophysical Integration: A Road Map to Exploration Success (AAPG)

Exhibition Hall 1:15 p.m. — 5:00 p.m.

Co-Chairs: S. Earle, L. R. Sternbach and C. Moore

- **Y. Zheng, X. Tang, D. Patterson:** Identifying Stress-Induced Anisotropy and Stress Orientation Using Cross-Dipole Acoustic Logging
- **S. Huang, W. Huang, T. Lin, H. Wu, X. Wei, Y. Chen, Q. Zhang, B. Yang, Y. Zhang, J. Shen:** Discussion on High-Resolution Sedimentary Micro-Facies Mapping Method of Well-Seismic Combination: A Case from Northern Songliao Basin, China
- **S. S. Shaker:** Geopressure Impact on Seismic Interpretations: Case Histories from the Gulf of Mexico
- **S. N. Mahapatra, M. Imhof:** Integrated Subsurface Imaging in a Complex Geological Setting



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Theme II: New Depositional Models for Shallow Marine Mudrocks: Modern Processes and Ancient Successions (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: B. Hart, M. Allison and J. H. Macquaker

- **S. Egenhoff, N. Fishman:** Stormy Times in “Anoxic” Basins — Tempestites in the Upper Devonian-Lower Mississippian Bakken Formation of North Dakota and Implications for Source Rock Depositional Models
- **R. Faas, A. Reed:** Rheological Constraints on Atchafalaya Coastal Deposits
- **A. S. Kolker, A. Mead, V. Cruz, J. P. Donnelly, L. Giosan, J. A. Nyman, B. Rosenheim:** Contrasting Sedimentary Environments in Dynamic Wetland Settings
- **L. B. Smith:** Tectonic and Depositional Setting of Ordovician Utica and Devonian Marcellus Black Shales, New York State
- **A. D. Herrmann:** Were Early Permian Cyclotherms in Midcontinent North America Deposited During an Anomalously Cold Time Period?

Theme III: U.S. Onshore & Offshore (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: J. L. Coleman and D. Cooke

- **S. B. Gaswirth, P. G. Lillis, L. N. Roberts, L. O. Anna:** Undiscovered Oil and Gas Resources in the Mission Canyon and Charles Formations, Williston Basin, North Dakota and Montana
- **C. Doolan, O. N. Pearson:** Stratigraphic Interpretation of Lower Cretaceous Strata in Onshore Southeast Texas and Louisiana from 2-D Seismic Data
- **R. C. Milici:** Assessment of Undiscovered Oil and Gas Resources of the Appalachian Basin Province, 2002 — An Overview
- **E. L. Rowan, J. L. Coleman, C. B. Enomoto, R. C. Milici:** Burial and Thermal Maturity Modeling of Mesozoic Basins in the South-Central and Southeastern U.S. to Aid in Assessing Hydrocarbon Potential
- **P. D. Warwick, R. F. Dubiel:** USGS Assessments of Undiscovered, Technically Recoverable Oil and Natural Gas Resources in the Gulf of Mexico Coastal Plain and State Waters, USA

Theme I: Current Issues in Marine Geohazards (AAPG/SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: D. Mosher and R. C. Shipp

- **M. Angell, K. Hanson, R. Youngs, D. O’Connell:** Fault Displacement Hazard Assessment for Critical Offshore Facilities
- **A. W. Hill:** Comparing Marine Geohazards Risk
- **R. Lindholm, A. K. Rutledge:** The Changing Face of Site Investigation: Exploration to Development
- **J. Gibson, J. H. Pelletier:** Shallow Water Flow in the Deepwater: Recent Advances
- **E. Lee, R. C. Shipp, W. Hack, J. Gibson, F. Dwan:** Quantifying the Probability of Occurrence of Shallow Gas as a Geohazard
- **W. J. Berger, J. Weller:** Real-Time Rig-Based Monitoring While Drilling the Riserless Section

Theme I: Geological Operations (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: S. Kimbrell and A. W. Milne

- **A. Morton, A. W. Milne, K. Bleasdale:** Heavy Mineral Stratigraphic Analysis on the Clair Field, UK West of Shetlands — A Unique Realtime Solution for Redbed Correlation While Drilling
- **D. Carlo:** Geological Operations in Shale Gas Plays: A Horn River Example
- **P. J. Johnston, R. H. Benthien, R. Wydrinski, R. T. Klein, K. Hargrove, M. Albertin, E. A. Lemanski, K. Sincoc, D. A. Kercho, K. Andres, H. De Jong, M. Graff:** Challenges Associated with Planning, Drilling, and Evaluating an xHPHT Ultra-Deep Gas Well: Lessons Learned from Will K, High Island Area, U.S. Gulf of Mexico
- **R. J. Fink:** Optimization of Real-Time and Memory LWD Data Acquisition Parameters to Limit LWD Data Resolution Loss at High Instantaneous Rates of Penetration
- **A. Scribner, C. M. Rogers, K. N. Rasmuson:** Drillwell Projects in Mature Fields: The Role of Program Execution
- **R. Cerri, A. Malossi*, L. Zappalorto:** Real Time Data and People Integration: The Hardest Job for the Operations Geologist

Theme IV: Circum-Arctic (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: J. Hogg and M. E. Enachescu

- **M. K. Runge, J. Stilling*, M. P. Brandt, N. P. Arendt:** Exploration Opportunities in the Davis Strait Offshore Southwest Greenland
- **M. K. Runge, J. Stilling*, M. P. Brandt, N. P. Arendt:** Baffin Bay North West Greenland — A New Frontier Region Opening Up for Oil Exploration
- **M. B. Redden, A. Davies, W. Prendergast, E. Hilditch, J. Barnet, M. D. Simmons:** Late Jurassic Petroleum Systems of the Circum-Arctic: Utilising Sequence Stratigraphy to Enhance Understanding and Prediction
- **J. L. Hannah, H. J. Stein, B. Bingen, G. Xu, S. Georgiev:** Application of Re-Os Isotope Systematics to Basin Modeling in the Norwegian Arctic
- **G. Shimer, P. McCarthy, C. Hanks:** Facies Analysis of Cretaceous Strata from the Umiat Wells, National Petroleum Reserve, Alaska
- **T. L. Allen, T. A. Fraser*:** Another Reason to Venture North: New Evidence for Petroleum Systems in Paleozoic and Cretaceous Strata, Peel Plateau, Yukon Territory, Canada
- **A. Wright, P. L. Decker, M. A. Wartes:** Stratigraphic Characterization of Lower Cretaceous to Paleocene Formations of the Brookian Sequence, Alaskan North Slope Foothills, Using a Combined Chemostratigraphic and Sequence Stratigraphic Approach

Theme V: Shale Behavior from Pore to Basin Scale (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: R. Day-Stirrat and L. Wood

- **C. R. Neagu, J. A. Cartwright, R. Davies:** A New Quantitative Approach to Predicting Physical Property Changes During Diagenesis of Mudstones
- **E. Deville, C. Dutrannoy, N. Guilhaumou, B. Vincent, E. Kohler, J. Schmitz, N. Ellouz, S. Raillard:** Shale Tectonics Processes: Interactions Between Deformation, Fluid Migration and Diagenesis, Outcrop Evidences from the Perras Basin (Mexico)
- **D. Maloney, R. Davies, J. Imber, S. King:** The Internal Architecture of a Shale Detachment Unit: Niger Delta
- **K. Roberts, R. Davies, S. Stewart:** Spatial Distributions of Extrusive Vents Within Mud Volcano Systems from Azerbaijan and Lusi (East Java)
- **D. P. Dennie, S. Pannalal, R. Elmore:** Paleomagnetism of the Ordovician Ellenburger Group Carbonates and Mississippian Barnett Shale, Fort Worth Basin: Preliminary Results
- **J. Cartwright, C. Santamarina, H. Shin:** A Diagenetic Mechanism for the Development of Shear Fractures in Shales
- **E. Lecomte, B. C. Vendeville*, R. Mourgues:** Experimental Modeling of Gravitational Spreading of Sediment Wedges Above Shale Subjected to High Pore-Fluid Pressure
- **K. McClay, J. De Vera, J. E. Wu, D. Costantino:** Fault-Related Folding in Deepwater Fold-and-Thrust Belts with Shale Detachment Systems

Theme VII: Deltaic Coasts and Society: The Mississippi Delta and Beyond (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: S. L. Goodbred and T. E. Torqvist

- **K. Stattegger, D. Unverricht, R. Tjallingii:** Evolution of the Mekong Delta: Holocene History, Present Situation and Perspectives for the Future
- **R. W. Wellner, B. Hall, T. Sun, J. Martin, M. S. Danilkin:** Insight into the Past, Present and Future Evolution of Wax Lake Delta Using a Physics-Based, 3-D Numerical Model
- **D. Edmonds, R. Slingerland:** The Effect of Sediment Cohesion on Delta Morphology
- **J. A. Nittrouer, D. Mohrig, M. Allison, W. Kim, G. Parker:** Backwater Implications for Sediment Transport and Channel Morphology in the Lowermost Mississippi River
- **K. Straub, D. Mohrig, T. George, N. Dawers, E. Martin, C. Paola:** Subsidence Associated with Active Growth Faulting on the Mississippi Delta: Displacement Rates and Steering of the Mississippi River
- **S. M. Gagliano:** South Louisiana’s 20th Century Fault-Driven Transgression
- **Z. Shen, T. E. Torqvist, B. Mauz:** Long-Term (~80 ka) Crustal Movements in the Mississippi Delta and Lower Mississippi Valley

- **S. Yu, T. E. Törnqvist, G. A. Milne, M. A. Kulp:** Modeling the Sediment Loading Effect on Land Subsidence in the Mississippi Delta

Theme IX: Environmental Remediation and Hydrogeological Characterization (EMD/AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: J. Castle and R. Maric

- **S. Alloisio, C. Phair, K. Campbell, C. Safadi:** Integrated Use of Petrel and Mudflow in the Modeling of SAGD Produced Water Re-injection
- **J. Castle, J. H. Rodgers, B. Alley, M. Spacil, A. Beebe, M. Pardue, Y. Song:** Biogeochemical Processes for Treating Oil and Gas Produced Waters Using Hybrid Constructed Wetland Treatment Systems
- **P. Campbell, R. J. Rosenbauer, A. Lam:** Tracking the Degradation of the Cosco Busan Bunker Fuel Oil Spill in San Francisco Bay, California
- **J. E. Horner, M. Pardue, M. Pham, J. Castle, J. H. Rodgers, J. E. Myers, C. M. Gulde:** Design and Performance of a Pilot-Scale Constructed Wetland Treatment System for Removing Oil and Grease from Oilfield Produced Water
- **B. Alley, A. Beebe, J. H. Rodgers, J. Castle:** A Comparative Characterization of Produced Water from Conventional and Unconventional Fossil Fuel Resources
- **M. D. Vanden Berg, P. Anderson, C. D. Morgan, S. Carney:** Understanding the Aquifers in the Uinta Basin, Utah: A Key to Solving the Basin’s Saline Water Disposal Problem
- **P. K. Mescher, S. M. Betts, D. Polefko:** A Collapsed Paleocavern System as a Powerplant Wastewater Disposal Reservoir — Cambro-Ordovician Arbuckle Group of Ford County, Kansas
- **P. R. Knox, S. C. Young:** Structure, Stratigraphy, and Heterogeneity of the Gulf Coast Aquifer, Brazos River to Rio Grande, Texas

Theme VIII: Exploitation of Unconventional Resources (EMD)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: B. Fryklund and E. Potter

- **S. Sonnenberg:** Abnormal Pressure Analysis in the Bakken Formation, Williston Basin, a Key to Future Discoveries
- **M. E. Suhrer, S. Arredondo, A. Grader:** 3-D Visualization and Classification of Pore Structure and Pore Filling in Gas Shales
- **J. Cockbill, C. M. Finn, D. Seely, J. Martin:** Maximum-Reservoir-Contact Wells for Coalbed Methane Exploitation: Corbett Creek Case Study
- **K. Dickerman, D. A. Edwards:** Producing Intervals of the Wolfberry Trend in Eastern Reagan County, Texas
- **S. W. Young, B. D. Torrez, J. E. Engstrom, S. Goehring, A. B. Harris, G. P. Johnson:** Integration — Key to Success of Austin Chalk and Eagle Ford Wells: A Case Study of the Sugarkane Cretaceous Field, Live Oak County, Texas
- **S. Pan, T. Wang, P. Wei, J. Wang, C. Liu, S. Liang:** Pooling Conditions and Exploration Prospect of Shale Oil & Gas in Songliao Basin, Eastern of China
- **J. Pitcher, B. Richter:** Application of Geosteering Technology to Enhance Development of a Mature Reservoir in the Wattenberg Field, Colorado
- **N. Gupta, Y. Abousleiman, R. Slatt:** Factors Behind Variation in Geomechanical Properties of a Highly Lithified, Quartzose Sandstone

Theme II: Paleoclimates and Paleoceanography in Deep Time: Improved Data-Model Integration in Paleoclimate Analysis (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: T. J. Algeo, L. Soreghan and M. A. Perlmutter

- **A. J. Mitchell, D. Ulicny, P. A. Allison*, G. Hampson, M. Wells, M. D. Piggott, G. J. Gorman, C. C. Pain:** Modeling Tidal Current-Induced Bed Shear Stress and Palaeocirculation in an Epicontinental Seaway: the Bohemian Cretaceous Basin, Central Europe
- **T. J. Algeo, H. Rowe:** Anoxia in Ancient Epeiric Seas: The Limits of Modern Analogs
- **H. J. Stein, J. L. Hannah, B. Bingen, S. Georgiev, G. Xu:** Changing Conditions Across the Permo-Triassic Boundary: Evidence from the Re-Os Isotope System
- **D. J. Findlay:** Belemnite Rostra Geochemistry and Their Utility as Tools for Investigating Isotope Stratigraphy and Palaeoclimate
- **T. Steuber:** Cretaceous Carbonate Reservoir Facies as a Function of Seawater Composition, Paleoclimate, and Evolution of Major Carbonate Producing Biota



TECHNICAL PROGRAM *Denotes speaker other than first author

MONDAY AFTERNOON POSTERS

- **A. Husinec, K. L. Marvinney, K. Hoskinson:** Core and Log-Based Carbonate-Evaporite Depositional Sequence Analysis, Late Ordovician Upper Red River Formation, Western North Dakota
- **P. J. Bart, J. B. Anderson:** Erosion on the Upper-Pliocene Owl and Pussycat Canyon on the North Florida Ramp — Possible Genetic Relationship with the Loop Current
- **M. Suarez, L. A. Gonzalez, G. A. Ludvigson:** Utilization of Stable Oxygen Isotopes for Quantification of the Mid-Cretaceous Greenhouse in the Americas
- **A. J. Mitchell, P. A. Allison*, M. D. Piggott, G. J. Gorman, C. C. Pain, G. Hampson:** Numerical Modeling of Tsunami Propagation with Implications for Sedimentation in Ancient Epicontinental Seas: The Lower Jurassic Laurasian Seaway
- **C. Huang, L. Hinnov, O. Swientek, M. Smelror:** Astronomical Tuning of Upper Jurassic - Lower Cretaceous Sediments (Volgian-Ryazanian Stages), Norwegian Sea

Theme I: Petroleum Geochemistry (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: W. Dow, D. Schumacher and G. Rice

- **D. L. Connolly, R. Garcia, J. L. Capuano:** Integrating Hydrocarbon Migration Pathways Detected in Seismic Data with Surface Geochemistry
- **D. Seneshen, J. Fontana:** Organic and Inorganic Compositional Links to Oil and Gas Reservoirs Using Surface Geochemical Methods
- **H. Dembicki:** Interference from Recent Organic Matter and Biodegradation in the Interpretation of Biomarker Data from Seafloor Hydrocarbon Seeps
- **D. C. Malizia:** Stratigraphic Traps Detection Through Surface Geochemical Exploration: Examples from Argentina
- **S. Monstad, E. Syrdalen, A. A. Pfaffhuber, M. D. Greb, V. G. Thompson:** Frontier Exploration in East Africa: Combining Unconventional Techniques and Traditional Exploration
- **B. B. Bernard, J. M. Brooks, P. Baillie, J. Decker, D. L. Orange:** Geochemical Exploration Case Study of Fifteen Frontier Indonesian Deepwater Basins
- **A. S. Ross, X. Qi, E. Croke, C. Stalvies, T. Bastow, S. Armand, H. Volk:** Laboratory Evaluation of Hydrocarbon Sensing Devices with Potential for Seep Detection: A Comparison with Conventional Analytical Methods
- **S. Larter, T. Oldenburg, M. Clements, I. Gates:** Beyond Petroleum — Petroleum Geochemistry for the 21st Century
- **T. E. Ruble, D. Ortiz, D. Hill, W. Paul, B. Binford, M. Tobey:** Wellsite Geochemistry — New Analytical Tools Used to Evaluate Unconventional Reservoirs in the Wattenberg Field, Colorado
- **S. Poole, C. A. Mnich, N. Harris, N. T. Hemmesch:** Significance of Pyrite Morphology to the Geochemistry and Sequence Stratigraphy of the Woodford Shale, Permian Basin, West Texas

- **N. Marcano, B. Bennett, H. Huang, S. Larter:** Application of Petroleum Geochemistry to Monitoring In Situ Upgrading Operations in Oil Sands and Heavy Oil Reservoirs
- **M. Bjorøy, P. B. Hall, I. L. Ferriday, Y. Ismail:** Libyan Murzuq Basin Source Rocks

Theme II: Lacustrine Depositional Settings, Modern and Ancient (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: A. Carroll and M. Rhodes-Carson

- **E. H. Gierlowski-Kordesch:** Lacustrine Carbonates
- **K. Bohacs, T. Demko, S. Guidry, D. Trainor:** Lacustrine Carbonate Lithofacies from Micrite to Grainstone and Microbial Boundstone-Hydrocarbon Play-Element Potential and Prediction Within a Lake-Basin-Type Framework
- **P. Buchheim, S. Awramik, L. Leggett:** Lacustrine Stromatolites and Microbialites as Petroleum Reservoirs
- **L. P. Birgenheier, M. D. Vanden Berg:** Integrated Sedimentary and Geochemical Investigation of Core from Upper Green River Formation Lacustrine Deposits, Uinta Basin, Utah
- **M. L. Malinconico:** Patterns of Organic Sedimentation and Kerogen Type in Ancient Rift Lakes, Early Mesozoic Newark and Richmond Basins, Eastern United States
- **H. Eltoun, O. M. Abdullatif:** Depositional Environments and Sequence Stratigraphy of the Cretaceous Lacustrine/Fluvial Abu Gabra and Bentiu Formation, Muglad Rift Basin, Sudan
- **J. Hargrave, M. Hicks:** Lacustrine Carbonate Facies of a Mixed System: Lake Turkana Rift, Kenya
- **K. Bohacs, A. Carroll:** Ten Years After: The Expanding Utility of Lake-Basin-Type Approach from Conventional Source Rocks to Unconventional Resources
- **T. Yin:** Deltas in Shallow Water Lacustrine — Examples from Modern and Subsurface
- **S. Jiang, P. Weimer, H. Wang, Z. Zhao, H. Gan, J. Ren, Y. Lu, J. Luo, J. Lu:** The Sequence Stratigraphic Architecture and Petroleum Accumulations in the Paleogene Saline Lacustrine Biyang Basin, Eastern China
- **S. Stoner, J. Holbrook:** Geometric Trends for Floodplain Lakes in High Accommodation Floodplains and Architecture of Floodplain Lake Partitioning, Elongate Splay Delta Channels
- **M. H. Hofmann, M. S. Hendrix:** Fine-Grained Hyperpycnites and Coarser Grained Turbidites: A Detailed Sedimentary Record of Glacial Retreat and Catastrophic Floods as Preserved in Pleistocene Pro-Glacial Lake Sediments

Theme II: Siliciclastic Deep-Water Depositional Systems, Modern and Ancient (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: D. Minisini and C. E. Stelling

- **G. Uramoto, M. Ito:** Spatial and Temporal Variations in Geometry and Distribution Patterns of Sheet-Like Turbidite Sandstone Beds Within a Forearc Submarine-Fan Succession of the Pliocene Kiyosumi Formation on Boso Peninsula, Central Japan
- **A. E. Fleming, D. Pyles, D. A. Anderson, M. D. Sullivan, B. Trudgill:** Stratigraphic Architecture of Non-Channelized (Lobe) Strata in a Submarine Fan Setting, Cretaceous Point Loma Formation, California
- **C. Pierce, P. Houghton, P. M. Shannon, O. J. Martinsen, A. Pulham, T. Elliott:** First Results from Behind-Outcrop Boreholes in Clare Basin Turbidites, Western Ireland
- **I. Kane, D. Hodgson:** Identification of Levee Subenvironments in Deep Marine Channel Levee Systems: Criteria for Interpretation from Observations at Outcrop
- **J. Funk, R. Slatt:** Quantifying Connectivity Between Deepwater Slope Channel Sandstones and Stratigraphically Adjacent Thin-Bedded Strata: Implications for Hydrocarbon Production and Timing of Depositional Events in Deepwater Strata
- **J. Clark, D. Pyles, R. Bouroulec, R. Amerman, M. Hoffman, J. D. Moody, A. Moss-Russell, P. Setiawan, H. Silalahi, T. Heard, C. Guzofski, A. Fildani, N. Drinkwater, M. Pycrz:** Structural Controls on Deepwater Architecture and Facies in the Eocene Ainsa Basin, Spanish Pyrenees
- **M. Aehnelt, R. H. Worden, S. J. Hill, D. Hodgson, S. S. Flint, A. C. Canham:** Chemical Architecture of a Submarine Slope Channel Complex Outcrop, Tabernas Basin, Spain
- **R. D. Wilson, J. Schieber:** Petrographic Pore Characterization in the Upper Devonian Genesee Shale of New York in the Context of Depositional Setting — SEM Observations from Ion-Milled Samples
- **V. Terlaky, H. Longuépée, J. Rocheleau, L. Meyer, G. van Hees, K. Privett, G. Cramm, A. Tudor, B. Arnott:** Detailed Analysis of Small and Large Scale Architectural Elements in Deep-Marine Basin-Floor Deposits of the Upper and Middle Kaza Groups, British Columbia, Canada
- **J. Gerard, S. Cossey, M. Louterbach:** Deepwater Reservoirs: How Quantitative Geometric Data and Stratigraphic Hierarchy Can Influence Exploration and Development Projects
- **A. MacDonald, D. J. Piper, P. Jutras:** Interpretation of Deepwater Cenozoic Stratigraphy, Erosion Systems and Salt Tectonics of the Central Scotian Slope Offshore Nova Scotia
- **W. Yingmin:** The Comparative Study of the Continental Margin Basins of the Northern South China Sea and the Typical Passive Continental Marginal Basins

TUESDAY MORNING ORALS

Tuesday Morning Oral Sessions

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme VIII: Exploration for Gas Hydrate Resources (AAPG/EMD)

Room 238/239

Co-Chairs: B. Hunter and A. H. Johnson

8:00 Introductory Remarks

8:05 **J. S. Hanor, J. A. Mercer:** Spatial Variations in the Salinity of Pore Waters in Northern Deep-Water Gulf of Mexico Sediments: Implications for the Stability of Methane Hydrates

8:25 **J. A. Majorowicz, J. Šafanda:** CO₂ Hydrate Formation Heat Release as a New Tool to Melt In Situ Methane Hydrates

8:45 **U. Strecker, A. Morcote, S. Singleton:** Quantifying Gas Hydrate Resources from Cumulative Seismic Attributes, Milne Point 3-D Seismic Survey, Alaska

9:05 **W. Shedd, A. Cook, D. Shelander, M. Frye, R. Boswell, T. S. Collett, D. Hutkinson, C. Ruppel, P. Godfriaux, R. Dufrene:** The Origin of the Hydrate Filled Fractured Zone in the DOE/Chevron Hydrate JIP Walker Ridge 313 Wells

9:25 **D. R. McConnell, Z. Zhang:** Advances in Type Seismic Response for Gas Hydrate in Light of Recent LWD Drilling

9:45 Break

10:30 **J. H. Knapp, C. C. Knapp, L. Macelloni, A. Simonetti, C. B.**

Lutken: Subsurface Structure and Stratigraphy of a Transient, Fault-Controlled Thermogenic Hydrate System at MC-118, Gulf of Mexico

10:50 **R. Hunter, S. Digert, T. S. Collett, R. Boswell:** Mount Elbert Gas Hydrate Stratigraphic Test Well Results and Implications, Milne Point Unit, Alaska North Slope

11:10 **T. P. Walsh, T. G. Morahan, D. N. Greet, P. J. Stokes, M. Panda, P. K. Singh, M. D. Dunn:** Methane Hydrate Resource Potential Associated with the Barrow Gas Fields



TECHNICAL PROGRAM *Denotes speaker other than first author

11:30 K. G. Osadetz, J. A. Majorowicz, T. A. Brent, P. K. Hannigan, Z. Chen, J. Šafanda: Gas Hydrates in Canadian Sverdrup Basin, Canadian Arctic Archipelago: A Potential New Focus for Canadian Resource Characterization

Theme IX: CO₂ Sequestration: Strategies and Technologies for Storage and Monitoring (DEG/EMD)

Room 243/244/245

Co-Chairs: G. C. Blount, T. Meckel and M. K. Harris

8:00 Introductory Remarks

8:05 C. E. Bond, R. Wightman, P. Ringrose: Structural Validation and Fracture Modelling of the In Salah CO₂ Storage Site, Algeria

8:25 A. Cavanagh, P. Ringrose: Simulation of CO₂ Distribution at the In Salah Storage Site Using High-Resolution Field-Scale Models

8:45 J. Kaldi: CO₂ Storage Capacity Estimation and Storage Site Selection

9:05 R. Surdam, J. Jiao, P. Stauffer, T. Miller, C. Frost: Displaced Fluid Management: An Operational Imperative in Commercial-Scale CO₂ Sequestration Projects

9:25 D. R. Cole, Y. Kharaka, T. Bullen, S. D. Hovorka: Environmental Impacts of CO₂ Sequestration in Sedimentary Basins

9:45 Break

10:30 J. Kozman, K. Lukats: Adapting Oil and Gas Data Strategies for CO₂ Sequestration

10:50 G. Johnson, B. Mayer, M. Shevalier, M. Nightingale, I. Hutcheon: Application of Stable Isotope Techniques to Monitor CO₂ Storage at the Pembina Cardium CO₂ Monitoring Pilot, Alberta, Canada

11:10 Y. Oruganti, S. L. Bryant: Evolution of a Pressure-Induced Risk Management Strategy for CO₂ Injection in Deep Saline Aquifers

11:30 D. J. Knudsen, C. D. Gorecki, J. M. Bremer, Y. I. Holubnyak, B. A. Mibeck, D. D. Schmidt, S. A. Smith, J. A. Sorensen, E. Steadman, J. A. Harju: Characterization and Modeling of a CO₂ Huff 'n' Puff to Predict and Verify EOR Production and CO₂ Storage

Theme I: Basin Modeling (AAPG/SEPM)

Room 252/253/254

Co-Chairs: N. Harris and D. K. Higley

8:00 Introductory Remarks

8:05 S. Larter, J. J. Adams: Constraining Oil Charge Rates and Oil Reservoir Residence Time: Key Variables in Prospect Analysis and Heavy Oil Fluid Property Prediction

8:25 N. Arian, P. Tingate, R. Hillis, G. W. O'Brien: Palaeo-Stress Directions as a Guide for Fault Conductivity Prediction in 3-D Petroleum Systems Modelling

8:45 A. Lemgruber, F. Gonçalves, L. Loures, D. Palmowski, S. Rostirolla, E. Zagotto, A. Araújo: The Use of Seismic Inversion Results as an Input in a High Resolution Petroleum System Modeling in the Santos Basin, Brazil

9:05 Y. Tang, X. Xia: Using Advanced Chemistry of Basin Modeling to Predict Produced Oil Flow Properties for Deepwater Oil Production

9:25 T. P. Ward, J. D. Pigott: Petroleum Potential of the Jamaican Wagwater Trough: New Insight Obtained from 3-D Basin Modeling

Theme X: Plays (AAPG)

Room 252/253/254

Co-Chairs: E. C. McDade and B. M. Suppes

10:25 Introductory Remarks

10:30 R. Haworth, P. J. Menard, G. Denyer, E. C. McDade: Ultra Deep Play on the Gulf of Mexico Shelf

10:50 S. Egenhoff, A. van Dolah, A. Jaffri: Unconventionally Conventional — Facies and Sequence Stratigraphy of the Upper-Devonian-Mississippian Bakken Formation Reservoir, Williston Basin, North Dakota

11:10 R. Sassen: Jurassic Condensate from Hudson Canyon, Baltimore Canyon Trough, U.S. Atlantic

11:30 D. W. Frye, G. Willis: South Louisiana — Today and Tomorrow

Theme VI: Regional Interactions of Tectonics and Sedimentation: Examining Relationships Between Deformation and Basin Evolution (SEPM)

Room 255/256/257

Co-Chairs: J. L. Aschoff and B. K. Horton

8:00 Introductory Remarks

8:05 T. Seeley, D. A. Spratt: Tectonostratigraphic Evolution of the Mackenzie Delta - Beaufort Sea Fold Belt

8:25 G. S. Gordon: Stratigraphic Evolution and Reservoir Quality in a Neogene Accretionary Forearc Setting: Eel River Basin of Coastal Northwestern California

8:45 C. Carvajal, R. J. Steel: Source-to-Sink Sediment Volumes Within a Tectono-Stratigraphic Model for a Laramide Shelf-to-Deep-Water Basin

9:05 G. N. Mackey, K. L. Milliken, B. K. Horton: Provenance of the South Texas Paleocene-Eocene Wilcox Group, Western Gulf of Mexico Basin: Insights from Sandstone Modal Compositions and Detrital Zircon Geochronology

9:25 J. L. Aschoff: The Role of Sediment Supply and Local Versus Regional Accommodation on Growth Strata Analysis: Discussion and Examples

9:45 Break

10:30 M. Hoffman, R. Bouroullec, C. Guzowski, D. Pyles, J. Clark, P. Setiawan, J. D. Moody, H. Silalahi, A. Moss-Russell: Constraints on the Timing of Growth Structures in a Deepwater Basin: Insights from Stratigraphic Growth Indicators and Three-Dimensional Structural Modeling, Ainsa Basin, Spanish Pyrenees

10:50 J. Londono, J. Lorenzo: Lithospheric Flexure and Related Stratigraphic Cycles in the Putumayo Basin, Colombia

11:10 C. J. Strohmenger, A. S. Ruf, T. T. Simo, E. M. Johnstone: Tectonic Controls on Carbonate Production and Facies Architecture: Examples from Indonesia

11:30 P. Qi, J. Ren, S. Shi: The Difference Between the Tectonic Frameworks of the Onshore and Offshore and Its Cenozoic Evolution: A Case Study from Qikou Sag in Bohaibay Basin, China

Theme IV: Petroleum Systems of the Tethyan Region (AAPG)

Room 338/339

Co-Chairs: C. G. Kendall, L. Yose and L. Marlow

8:00 Introductory Remarks

8:05 F. Berra, L. Angiolini, G. Muttoni: From the Breakup of Rodinia to Present: A Brief Palaeogeographic Reconstruction of the Tethyan Region

8:25 C. G. Kendall, A. S. Alsharhan, L. Marlow: Regional Stratigraphy of the Southern Tethyan Margin, Lithofacies, Sequence Stratigraphy, Source, Seal, and Reservoir Rocks

8:45 T. S. Ahlbrandt: The Petroleum Endowments of the Total Petroleum Systems in the Middle East and North Africa Tethys

9:05 H. Droste: Petroleum Geology of the Sultanate of Oman

9:25 F. S. van Buchem, N. B. Svendsen, E. Hoch: Qatar — Geological History and Petroleum Habitat

9:45 Break

10:30 G. J. Grabowski: Petroleum Geology of Iraq

10:50 S. Luening, J. Kuss: Petroleum Geology of Jordan

11:10 M. Bordenave: Petroleum Systems and Distribution of the Oil and Gas Fields in the Iranian Part of the South Tethyan Domain

11:30 A. N. El-Barkooky, A. R. Moustafa: Tectono Stratigraphic Framework of Petroleum Systems in Egypt

Theme II: SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate I

Room 343/344/345

Co-Chairs: C. Paola, M. Perlmutter and M. Blum

8:00 Introductory Remarks

8:05 W. Kim, A. Petter, B. W. Fouke, T. M. Quinn, C. Kerans, F. Taylor, D. Mohrig, C. Paola: Decoupling Allogenic Forcing from Autogenic Processes: Clastic and Carbonate Experimental Stratigraphy

8:25 E. C. Rankey: Nature and Scales of Autogenic Processes in Carbonate Sedimentary and Geomorphic Systems

8:45 D. Mohrig, K. Straub, A. C. De la Rosa Illescas: When Does Spatial Variation in Subsidence Rate Influence the Positioning of Channels Within Quaternary Strata of Mississippi River Delta?

9:05 E. Prokocki: Holocene Lower Mississippi River Avulsions: Autogenic Versus Allogenic Forcing

9:25 D. Venra: Inhibition of Autogenic Dynamics in Alluvial Fans: Field Examples from the Tertiary of Spain and Implications for Process Recognition in Fan Successions

9:45 Break

10:30 J. Martin, M. Blum: "Weak" and "Strong" Interactions: The Coevolution of Autogenic Processes and External Forcing in Experimental Deltas

10:50 T. Muto, R. J. Steel, J. Swenson, A. Petter: Autostratigraphic Responses of Deltaic Clinoforms to Sea Level Forcing

11:10 J. Swenson, S. Gupta, C. Paola, D. Jerolmack: Temporal and Spatial Scales of Autogenic Dynamics in Linked Fluvial-Marine Systems

11:30 C. Olariu, R. J. Steel: Delta Architecture and Process Variability During Cross-Shelf Transits; Autogenic and Allogenic Responses

Theme II: Siliciclastic Non-Marine, Shallow-Marine and Shelf Depositional Systems and Exploration Models II (SEPM)

Room 353/354/355

Co-Chairs: J. Dischinger and R. J. Steel

8:00 Introductory Remarks

8:05 P. J. McCabe: Sequence Stratigraphy of a Large Tide-Influenced Deltaic System: The Middle Triassic Hawkesbury Sandstone of the Sydney Basin, Australia

8:25 V. Abreu, J. Neal, M. Blum, J. Marftin: Accommodation Succession Method and the Meaning of Sequence Stratigraphic Surfaces

8:45 M. D. Miner, M. A. Kulp, D. FitzGerald: Stratigraphic Architecture of Transgressive Tidal Inlet Fill

9:05 B. Vakarelov, B. Ainsworth, R. A. Nanson: A Novel Database-Driven Approach to Shallow Marine Classification: Towards Building a Knowledge Base

9:25 S. Angulo, L. Buatois: Sedimentary Facies Architecture and Paleogeography of the Upper Devonian-Lower Mississippian Bakken Formation of Subsurface Saskatchewan

9:45 Break

10:30 W. Li, J. Bhattacharya: Delta Asymmetry and 3-D Facies Architecture of a Mixed-Influenced Parasequence, Ferron Notom Delta, Capital Reef, Utah, USA

10:50 E. P. Lewandowski, R. Zühlke, T. Bechstädt, B. Wirth: Seismo-Stratigraphy and Basin Analysis, Reggane Basin (Paleozoic, Southern Algeria)

11:10 J. Zonneveld, F. Ferri, T. W. Beatty, M. K. Gingras: Unrecognized Potential for Thick Triassic Reservoirs in Frontier Areas of NE British Columbia

11:30 D. L. Kamola, K. E. Hoffmeister: Decoupling of the Sevier Foreland Basin from the Cretaceous Western Interior Seaway During Lowstand Events

Theme II: Mapping, Modeling, and Understanding Facies Heterogeneity in Carbonate Deposits (SEPM)

Room 356/357

Co-Chairs: E. C. Rankey and S. L. Reeder

8:00 Introductory Remarks

8:05 N. J. Van Ee, G. P. Eberli, F. S. Anselmetti, J. H. Hudson: Capturing Carbonate Heterogeneity in Multiple Dimensions and Scales, Glover's Reef, Belize

8:25 M. S. Andres, A. Pierre, P. M. Harris, G. D. Jones: Assessing Depositional Facies Heterogeneity in a Carbonate Ramp Using Forward Stratigraphic Modeling

8:45 R. F. Lindsay: Carbonate Porosity Families and Their Reservoir Potential

9:05 C. Kerans, P. M. Harris: Shelf Physiography and Accommodation as Controls on Permian Grainstone Bodies

9:25 I. Gupta, G. D. Jones, E. Sonnenthal: Reactive Transport Models of Structurally Controlled Hydrothermal Dolomite in Carbonate Reservoirs

9:45 Break

10:30 M. H. Alnazghah, L. Pomar, M. Aurell, B. Bádenas: Inter-well Scale Heterogeneity in a Late Jurassic Carbonate Ramp

10:50 G. Grammer, A. K. Noack, H. Qualman, A. Ritter-Varga, J. Wold, A. E. Sandomierski, W. B. Harrison: Reservoir Characterization of Silurian (Niagaran) "Pinnacle" Reefs in the Michigan Basin

11:10 M. Minzoni, P. Enos, J. Wei, D. J. Lehrmann: Controls on Seismic-Scale Reservoir Architecture of Mixed Carbonate-Siliciclastic Platform Margins: Example from the Triassic Yangtze Platform, South China

11:30 R. M. Phelps, C. Kerans: Facies and Architectural Variability of the Albian Stuart City Margin



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Tuesday Afternoon Oral Sessions

Theme I: Technology and Techniques

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Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme IX: Astrogeology — Impact of Collisions on Earth's History and the Occurrence of Hydrocarbon and Mineral Resources (AAPG/EMD)

Room 238/239

Co-Chairs: W. A. Ambrose and T. Klekamp

1:15 **Introductory Remarks**

1:20 S. P. Gulick, G. L. Christeson, J. Morgan, P. Barton, R. Grieve, C. Koeberl, G. Collins, M. Warner: Effects of Large Impacts on Crustal Structure and Basin Evolution: Example of the 65.5 Ma Chicxulub Impact

1:40 D. T. King, J. Ormó, R. Harris, L. Petruny: Marine Target Impact Structures and Petroleum Exploration

2:00 H. H. Schmitt: Lunar Impact History as Control on the Hadean Eon

2:20 R. Harris, M. F. Roden, P. A. Schroeder, M. S. Duncan, J. R. Anderson, C. Gullett-Young, W. Elliott: In Situ Tektite Glass and Upper Eocene Impact Stratigraphy of the Southeastern United States

2:40 D. Khristoforova: Large-Scale Changes in the Earth History and Their Relation to the Spiral Structure of the Galaxy

Theme X: Future of U. S. Energy (AAPG)

Room 238/239

Co-Chairs: P. A. Moses and P. K. Wieg

3:40 **Introductory Remarks**

3:45 D. Nummedal: A Pathway to Clean Energy

4:05 S. Sewalk: The New Strategic Petroleum Reserve — Shale Oil, An Opportunity to Increase Energy and Economic Security

4:25 W. H. Smith: Fossil Fuels, Energy Policy, and Common Sense

4:45 R. Nehring: Just How Enormous Is the "Enormous" U.S. Natural Gas Resource? Implications for Future Supply and U.S. Energy Policy

Theme XI: Carbon Dioxide Capture and Geologic Sequestration (DEG/EMD)

Room 243/244/245

Co-Chairs: A. K. Anderson, Y. Kharaka, D. A. Jenkins and J. Drahovzal

1:15 **Introductory Remarks**

1:20 S. M. Benson: CO₂ Sequestration in Sedimentary Basins: Major Remaining Issues

1:40 R. C. Burruss, S. Brennan, M. Merrill, L. Ruppert, P. A. Freeman: USGS Methods for Evaluating Technically Accessible CO₂ Storage Resources with Minimum Storage Size Criteria

2:00 R. Qi, A. McGarry, T. LaForce*, M. Blunt: Maximizing Subsurface Storage Capacity in Sedimentary Systems by Combined CO₂-H₂O Injection

2:20 C. Hermanrud, H. Hansen, O. Eiken, J. Lippard, G. G. Teige, A. D. Janbu: CO₂ Storage Capacity Below Structural Spill Point in the Utsira Formation

2:40 H. E. Leetaru, R. J. Finley: DOE's Regional Carbon Sequestration Partnership Program and CO₂ Injection in the Illinois Basin

3:00 **Break**

3:45 S. D. Hovorka: Deep and Near-Surface Monitoring for Enhanced CO₂ Storage Security

4:05 M. Celia: The Role of Existing Wells as Pathways for CO₂ Leakage

4:25 B. J. Kobelski: Federal Requirements Under the Underground Injection Control Program for Carbon Dioxide Geologic Sequestration Wells

4:45 E. S. Rubin: The Cost of CO₂ Capture and Storage

Theme V: Complex Structural Modeling in Honor of Ted Apotria (AAPG)

Room 252/253/254

Co-Chairs: B. Kilsdonk and D. Goff

1:15 **Introductory Remarks**

1:20 T. G. Apotria, E. M. Johnstone*, K. Pomar, A. Gantyno: Structural Styles in Central Java, East Java Basin, Indonesia: Combining Surface and Seismic Data

1:40 T. G. Apotria, E. Lanin, R. Myers, I. A. Saikia*, T. T. Simo, B. Sapiie: Controls on Fracturing in a Structurally Complex Carbonate Platform Setting (Rajamandala Limestone); Western Java, Indonesia

2:00 G. Schoenborn: Geometries Your Geophysicist Never Told You About: Cascading Forelimbs

2:20 T. P. Becker, M. McGroder, K. W. Rudolph, T. A. Hauge, M. Fan: Paleogene Influence of the Moxa Arch on the Architecture of the Composite Darby-Hogsback-Prospect (DHP) Thrust Sheet near Labarge, Wyoming, USA

2:40 T. A. Hauge, M. Glascock, J. Harris, J. Schwalbach: 3-D Structural Analysis of the Ventura Avenue Anticline, California: Reinterpretation of a Classic Contractional Anticline Using Modern 3-D Methods

3:00 **Break**

3:45 E. A. Fisher, J. Wakabayashi: Basins in Motion: Tectonic Inversion and Evolution of Migrating Releasing Step-Overs

4:05 P. R. Cobbold: Seepage Forces and Their Effects on the Development of Faults and Hydraulic Fractures

4:25 R. G. Gibson: A Methodology for Incorporating Dynamic Salt Evolution in 3-D Basin Simulation Models: Application to Regional Modeling of the Gulf of Mexico

4:45 D. Richards, C. Ceballos A., J. Blanco M.: Structural and Kinematic Model of the Piedmont Area, Eastern Cordillera Fold and Thrust Belt, Colombia

Theme VI: Sedimentation and Tectonics in Rifts (SEPM)

Room 255/256/257

Co-Chairs: R. Gawthorpe and C. A. Jackson

1:15 **Introductory Remarks**

1:20 I. Lunt, J. Thurmond: Asymmetrical Sediment Input to Rift Margins — Role of Pre-Rift Drainage

1:40 A. Hartley, S. Archer, A. Fordham, S. Leleu: Controls on Drainage and Facies Distributions in Continental Rift Basins

2:00 M. Ford, E. Williams, N. Backert, F. Malartre, S. Rohais: Rivers and Rifting: Interaction of Normal Faulting, Erosion and Sediment Dispersal in the Corinth Rift

2:20 I. R. Sharp, R. Gawthorpe, J. Lukasik: Mixed Carbonate-Clastic-Evaporite Depositional Systems in Rift Basins. Insights from the Suez Rift

2:40 A. Folkestad, T. Odinsen, E. Areklett, H. Fossen: Syn-Sedimentary Tectonics of the Jurassic Sedimentary Sequence in the Northern Viking Rift Graben (North Sea), Producing Asymmetrical Stratal Packages

3:00 **Break**

3:45 G. Elliott, P. Wilson, C. A. Jackson, R. Gawthorpe: The Stratigraphic Evolution of a Salt-Influenced Rift System: The Middle-Upper Jurassic of the Halten Terrace, Offshore Mid-Norway

4:05 R. Langford, T. L. Pavlis, P. Budhathoki: Interactions Between Rift Tectonism and Sedimentation, Cretaceous Chihuahua Trough.

4:25 M. Muravchik, F. Rarity, P. Wilson, D. Hodgetts, R. Gawthorpe: An Analog Model for Shallow Marine Rift Climax Reservoirs, El Qaa Fault Block Dipslope, Suez Rift, Egypt

4:45 C. A. Jackson, E. Larsen, S. Hanslien, A. Tjemsland: Rift-Climax Deposition and Reservoir Architecture on the Hangingwall Dipslope of a Large Half-Graben; South Viking Graben, Northern North Sea

Theme IV: Conjugate South Atlantic Margins (AAPG/SEPM)

Room 338/339

Co-Chairs: A. Danforth and W. Mohriak

1:15 **Introductory Remarks**

1:20 M. Moulin, D. Aslanian, M. Rabineau, L. Matias, M. Patriat: New Plate Kinematic Evolution on the South and Equatorial Atlantic Oceans: Geodynamic Implications and Passive Margins Genesis

1:40 D. Aslanian, M. Moulin: A Holistic Approach of the Sedimentary Basins Genesis

2:00 O. A. Blaich, J. Faleide, F. Tsikalas: Crustal-Scale Architecture and Segmentation of the Argentine Margin and Its Conjugate Off South Africa

2:20 P. R. Cobbold, R. Lilletveit: Conjugate Margins of the South Atlantic (West Africa and Brazil): Structural Similarities and Differences, Resulting from Inheritance

2:40 S. I. Fraser, K. E. Casey, K. K. Reimann, F. Love, R. Davies: Complex Poly-phase Extension During South Atlantic Rifting — A New Kinematic Perspective

3:00 **Break**

3:45 N. Kuszniir, A. Alvey, C. Gaina, T. Torsvik: S. Atlantic Crustal Thickness and Ocean-Continent Transition Location Derived from Satellite Gravity Inversion: Implications for Plate Reconstructions and Aptian Ocean Basin Geometry

4:05 F. R. Love, S. I. Fraser, K. E. Casey, K. K. Reimann: Crust Evolution During South Atlantic Rifting — Insights from Conjugate Structural Restoration Models

4:25 M. R. Mello, N. C. Azambuja Filho, E. de Mio, A. A. Bender, A. J. Catto, C. L. Jesus, P. Schmitt, P. Bruno, P. Brooks, M. Moldowan, S. M. Barbanti: Petroleum System Technology Applied to the Evaluation of the Oil and Gas Potential of the Brazilian Supergiant Southeastern Pre-Salt Province: How Big Is It?

4:45 D. Hanley, B. Teggart, S. Wheaton, E. Haas, P. Lowry, B. Miller, C. Oudin, S. Munsell, C. Weinbel: Jubilee Field: A Step Change for Ghana

Theme II: SEPM Research Symposium: Autogenic and Allogenic Controls on Sedimentary Successions: Modern and Ancient, Clastic and Carbonate II

Room 343/344/345

Co-Chairs: C. Paola, M. Perlmutter and M. Blum

1:15 **Introductory Remarks**

1:20 D. Jerolmack, C. Paola: Shredding of Environmental Signals by Autogenic Transport Fluctuations

1:40 O. J. Martinsen, S. Leiknes, I. R. Sharp: Quicker than Most: Autogenic versus Allogenic Controls on Ultra-High Resolution, Centennial-Scale Sequences in Arctic Norway

2:00 B. W. Romans, J. A. Covault, A. Fildani: Allogenic and Autogenic Forcings Within the Context of Sediment-Routing Systems: Examples from Southern California

2:20 M. Blum: Allogenic and Autogenic Signals in Quaternary Alluvial Successions of the Northern Gulf of Mexico Passive Margin

2:40 A. Hartley, G. S. Weissmann: Distinguishing Climatic from Autogenic Signatures in Alluvial Systems: A Quaternary Perspective with Implications for the Rock Record

3:00 **Break**

3:45 E. Hajek, P. L. Heller, B. Sheets: Autogenic Organization of Channel Avulsions During Basin Filling



TECHNICAL PROGRAM *Denotes speaker other than first author

- 4:05 P. Plink-Bjorklund, L. P. Birgenheier, J. Golab:** Separating Allogenic and Autogenic Controls in a Super-Greenhouse Fluvial System
- 4:25 C. Fielding, L. Birgenheier, M. Corbett:** Sheet-Like Fluvial Architecture on Regional Scales from the Cretaceous Western Interior Seaway of North America: The Case for Allogenic Control
- 4:45 S. Leleu, A. J. Hartley:** Cycles and Packages in Fluvial Deposits: What Do We Know? Examples from the Triassic Wolfville Fm (Nova Scotia)

Theme II: Siliciclastic Deep-Water Depositional Systems, Modern and Ancient II (SEPM)

Room 353/354/355

Co-Chairs: D. Minisini and C. E. Stelling

1:15 Introductory Remarks

- 1:20 J. D. Moody, D. Pyles, R. Bouroulec, J. Clark, M. Hoffman, P. Setiawan:** The Eocene Morillo Turbidite System (South-Central Pyrenees, Spain): Helping to Reduce Uncertainty of Sub-Surface Data Interpretation in a Deep Marine Growth Basin

- 1:40 L. Stright, Z. R. Jobe, A. Bernhardt, S. A. Graham:** 3-D Modeling of the Cerro Toro Axial Channel-Belt, Sierra del Toro, Magallanes Basin, Chile: From Outcrop Observations to Subsurface Uncertainty

- 2:00 Z. R. Jobe, A. Bernhardt, D. R. Lowe:** Quantitative Architectural Analysis and Depositional Model of an Asymmetric Conglomerate-Rich Submarine Channel Fill, Cerro Toro Formation, Sierra del Toro, Magallanes Basin, Chile

- 2:20 M. Dykstra:** Deepwater Tidalites in the Cretaceous Wheeler Gorge, Southern California

- 2:40 Z. Khan, B. Arnott, A. Pugin:** Levee Topography Formed by Horizontal Strata — An Outcrop and Synthetic Seismic Example from the Neoproterozoic Windermere Supergroup Canada

3:00 Break

- 3:45 G. W. Lowey:** The Dezadeash Formation (Jura-Cretaceous), Yukon, Canada: An Outcrop Analog for Deepwater Reservoirs in Arc-Related Basins

- 4:05 L. Navarro, B. Arnott:** Architectural Evolution of an Ancient Basin Floor to Slope Transition from the Windermere Turbidite System, Southeastern Canada

- 4:25 S. M. Hubbard, R. V. Macauley, B. D. Miles, R. Schroeder, A. Fildani, J. Clark, B. W. Romans, J. A. Covault, T. R. McHargue:** Deep-Water Channel Development in Proximity to the Channel-Lobe Transition: An Outcrop Example

- 4:45 P. Houghton, S. Barker, W. D. McCaffrey, A. Jarvie, I. Moore:** Passage of a Deep-Water Transitional Flow Across an Uneven Sea Floor — Implications for Bed-Scale Heterogeneity

Theme I: Best of Hedberg (AAPG)

Room 356/357

Co-Chairs: R. C. Shoup and C. A. Caughey

1:15 Introductory Remarks

- 1:20 C. R. Fielding, J. Alexander, J. P. Allen, J. D. Trueman:** Reservoir Characteristics of Tropical Sub-Humid Fluvial and Deltaic Deposits Inferred from Modern and Holocene Sediments of NE Australia and Some Ancient Examples

- 1:40 J. J. Lambiase, D. Remus, S. Husein:** Transgressive Successions of the Mahakam Delta Province, Indonesia

- 2:00 M. E. J. Wilson, M. J. Evans, W. Camp:** Paleogene Marine Clastics of the Mangkaihat Peninsula, Borneo: Implications for Petroleum System Development

- 2:20 R. Crossley:** Tropical Fluvio-Lacustrine Complexes of Africa and SE Asia: Implications for Exploration and Development

- 2:40 N. Kuenphan, K. Kaenmee, Y. Gonecome, R. C. Shoup:** Application of Satellite-Based Analog Studies to Resolving Reservoir Complexity in the North Malay Basin

Theme II: Carbonate Systems in the Subsurface — Capturing Heterogeneity with Geophysical Methods (SEPM)

Room 356/357

Co-Chairs: A. Colpaert and G. P. Eberli

3:40 Introductory Remarks

- 3:45 G. P. Eberli, K. Verwer:** High-Velocity Carbonates with High Permeability: Implications for Reservoir Quality in High Acoustic Impedance Intervals

- 4:05 T. Varslot, M. Knackstedt, R. Sok, T. Senden:** Probing Heterogeneity in Carbonates via Multiple Resolution Imaging Tools

- 4:25 R. Agersborg, T. Johansen:** Estimating Carbonate Reservoir Quality Using Rock Physics Templates

- 4:45 R. Ginsburg:** Rapid Marine Cementation Can Preserve Porosity and Permeability of Grainstones

Tuesday Morning Poster Sessions

Presenters in their Booths (10:00 a.m. – 12:00 p.m.)

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme XII: SEPM Student Research Papers

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: M. Blum and J. Holbrook

- **M. L. Sandstrom, K. J. Amos, R. F. Daniel, C. B. Krapf:** Planform Morphology, Sedimentology and Stratal Architecture of the Modern Kalaweerina Terminal Splay Complex, Lake Eyre, Central Australia
- **S. A. Wessels, M. A. Kulp:** Late Quaternary Depositional Packages of the Mississippi River Incised Valley
- **B. L. Weeks, B. L. Kirkland, D. W. Kirkland, R. J. Moiola, C. P. Dewey, F. Lynch, C. B. Sellers:** Role of Organic Matter in Formation of Micritic Ooids from Channing Lake Beds, Rita Blanca Formation; Panhandle, Texas
- **S. P. Regan, D. Mosher, A. Husinec, F. J. Read:** Late Valanginian to Late Hauterivian Peritidal and Subaerial Exposure Facies, Adriatic Platform, Croatia
- **A. F. Halfen, S. T. Hasiotis*:** New Insights of Soil Bioturbation by the Ant and Other Soil-Dwelling Organisms: Modern and Paleopedologic Significance
- **Z. Yawar, J. Schieber:** Depositional Setting and Pore Distribution in Mudstones of the Upper Cambrian Eau Claire Formation — SEM Observations on Ion-Milled Samples
- **P. J. Voice, M. Kowalewski, K. A. Eriksson:** North American and Global Patterns in the Detrital Zircon Database
- **J. N. Prouhet, K. Yeager, C. Brunner, M. A. Kulp, K. Schindler:** Quantifying Autocompaction of the Pearl River Marsh, Louisiana
- **K. Lielke:** Paleogene Topography, Drainage Patterns and Climate Change in Southwestern Montana
- **A. Davila, L. G. Moscardelli, L. Wood:** Structural Domains in the Eastern Offshore Area of Trinidad/Venezuela and Their Influence on Paleo-Orinoco Shelf-Edge Delta Architectures

- **M. S. Ellison, M. D. Miner, M. A. Kulp:** Mainland Marsh Shoreline Response to Barrier Island Transgressive Submergence: Preliminary Results from Chandeleur Sound, Louisiana, USA
- **A. D. Pollington, R. Kozdon, T. Ushikubo, N. T. Kita, J. W. Valley:** Conditions of Quartz Cementation in Mount Simon Sandstone: Evidence from In Situ Microanalysis of Oxygen Isotopes
- **S. T. Hasiotis, D. R. Hirmas, B. F. Platt*:** Three-Dimensional Ichnofossil Analyses Using Multistripe Laser Triangulation (MT) Technology: Quantifying Trace-Fossil Morphology, Bioturbation Patterns, and Ichnopedologic Fabrics in Sedimentary Rocks
- **J. Wassenburg, J. Fietzke, A. Immenhauser, D. Richter:** Reconstructing the Late Pleistocene Climate of the Middle Atlas in Morocco Using Speleothem Records
- **P. Martin:** The Stratigraphy of the Choptank and St. Marys Formations in Southern Delaware and Eastern Maryland: Sorting Lithostratigraphy and Chronostratigraphy
- **A. M. Jackson:** Quaternary Trace Fossil Assemblages on the Eel River Shelf, Northern California
- **T. Abdullayev, E. L. Stoudt:** Illustration of Shallow Water Depositional Cycles in Core from the Central Texas Ellenburger Group
- **W. Guan, W. Yang, B. M. Jeffrey, Q. Feng, Y. Liu, W. Zhao, Q. Wang:** Distinguishing Source Areas of Upper-Permian Fluvial-Lacustrine Deltaic Sediment Fills of a Half Graben Through Petrographic Study, Southern Bogda Mountains, the Greater Turpan-Junggar Basin, NW China
- **A. M. Rodriguez-Delgado, L. A. Gonzalez, W. R. Ramirez:** The Mona Reef Complex Revisited: Influence of Tectonics on Carbonate Facies Distribution and Reef Evolution

- **F. A. Lozano, K. J. Marfurt, J. Bhattacharya:** Late Quaternary Forced-Regressive Wave-Dominated Shelf-Margin Deltas, Northern Gulf of Mexico
- **B. M. Jeffrey, W. Yang, Q. Feng, Y. Liu:** Nature and Origins of a Cycle Boundary in Lower Permian Fluvial-Lacustrine Deposits in a Half Graben, Southern Bogda Mountains, NW China
- **K. D. Almquist:** Weathering of Volcanic Ash and the Fate of Organic Carbon on the Continental Margin of New Zealand
- **I. Cemen:** Oil and Gas Potential of Extensional Basins in Western Anatolia, Turkey
- **S. L. Hilding-Kronforst:** A Closer Look at Mid Eocene 42-43.8 Ma Biostratigraphic and Environmental Conditions at Blake Nose Western North Atlantic ODP Leg 171B Site 1051

Theme I: Best of Hedberg (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C.A. Caughey and R.C. Shoup

- **Bachtiar, A. Sulaiman:** Marine Processes in the Northern Lobe of Mahakam Delta and Marangkayu Spit Bar: Implication on Paleogeography Model in the Subsurface
- **S. Johansen, H. Semimbar:** Sand-Rich, Tide-Dominated Deltaic Systems of the Lower Miocene, Central Sumatran Basin, Indonesia
- **Cullen:** The Klias Peninsula and Padas River, Northwest Borneo: A Possible Example of Hinterland Drainage Capture in a Tropical Orogenic Highland



TECHNICAL PROGRAM *Denotes speaker other than first author

Theme V: Interaction of Hydraulic Fracture Treatments with Natural Fractures in Tight Gas Reservoirs (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: J. F. Gale, M. Thiercelin and J. Le Calvez

- **M. Enderlin, M. Mullen, C. Tamayo:** Is That Frac Job Really Breaking Rock? Or Just Pumping Down a Pre-Existing Plane of Weakness: The Integration of Geomechanics and Hydraulic Fracture Diagnostics
- **S. Maxwell, M. Jones, R. Parker, S. Leaney, D. Dorval, J. Logel, D. D'Amico, K. Hammermaster:** Microseismic Evidence of Fault Activation During Hydraulic Fracturing
- **S. Williams-Stroud, L. Eisner:** Using Microseismic Data for Fracture Failure Mode Analysis and Fracture Modeling
- **M. Enderlin, H. Alsleben:** One Method for Evaluating the Effects of Confining Stresses and Rock Strength on Fluid Flow Along the Surfaces of Mechanical Discontinuities in Low Permeability Rocks

Theme IX: Environmental Impact (EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: K. S. Haggar and D. Pate

- **S. M. Gagliano, K. S. Haggar:** Effects of D-Shaped Fault Deformation on South Louisiana Landscape
- **K. S. Haggar:** Goose Point, Louisiana — A Geoecological Model for Landscape Level Plant Community Succession Driven by Fault Movement Associated with the Baton Rouge Fault System
- **J. M. Lorenzo, J. Hicks, E. E. Vera:** Shear-Wave Velocity Anomalies (60 m/s) and High Vp/Vs Ratios (>16) at Shallow Depths (0-5m) Below a Distressed Artificial Levee, Marrero, Louisiana, USA
- **B. P. Stephens:** Basement Controls on Subsurface Geologic Patterns and Near-Surface Geology Across the Northern Gulf of Mexico: A Deeper Perspective on Coastal Louisiana
- **S. M. Ritter, J. Nicot, A. K. Hebel:** Water Requirements for Texas Shale Gas Industry: Will We Meet Projected Needs?

Theme V: Capturing Critical Fault Seal Issues (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: R. M. Jones and M. Rouen

- **B. H. Wagner:** Evaluating Salt Weld Permeability and Migration Risk
- **S. Scarselli, P. Vrolijk, R. Myers, M. L. Sweet, S. Nollet, D. Cleveland:** Stratigraphic Controls on Fault Zone Complexity and Evolution: The Little Grand Wash Fault, Utah
- **J. Hamilton, S. Reddy, S. Hayon, L. Johnson:** Microstructural and Mineralogical Aspects of Deformation in the Mungaroo Formation, NW Shelf, Australia
- **M. Enderlin, B. Weymer, P. D'Onfro, R. Ramos, K. Morgan:** The Unconfined Compressive Strength of SAFOD Core from Point-Load Penetrometer Tests
- **S. R. Freeman, S. D. Harris, V. O'Connor*, K. Wood, R. K. Davies, S. Grenfell, R. Russell:** Incorporating Stratigraphic, Petrophysical and Fault Seal Uncertainties Through the Reservoir Characterization and Simulation Process

Theme III: Methodology & Techniques (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: G. McMaster and R. Riese

- **S. M. Selim:** Pressure Regime Evaluation, Role and Contribution in Well Planning and Formation Evaluation Process, Zeit Bay Fields — Gulf of Suez, Egypt
- **T. C. Coburn:** Perspectives on Statistical Approaches for Estimating Continuous Petroleum Resources
- **C. Smalley, T. McKean, B. Ross, B. Merrill:** Identifying Future Resource Potential Using a Reservoir Technical Limits Approach
- **Z. Chen, K. G. Osadetz, J. Dixon, J. Dietrich:** Oil Resource Assessment Incorporating Improved Recovery and Variable Dependencies, the Beaufort-Mackenzie Basin, Canada
- **C. D. Norman:** Assigning Volumes for Realistic Assessment of Value in Multiple-Lease Prospects
- **M. Mainster, T. Murray, G. Christie:** Impact on Faults and Across Fault Flow on Reserves Calculation

Theme VIII: Exploration and Production of Shale Oil Resources (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: D. Reiter

- **R. H. Pilger:** Recent Geokinematic and Geodynamic Research on Intracontinental Stress Fields: New Tools for Fractured Reservoirs
- **E. Flodin:** Tectonic and Non-Tectonic Fractures in the Eocene Green River Formation, Piceance Basin, Colorado
- **P. P. Kuhn, R. di Primio, B. Horsfield:** Integrated Geochemistry and Basin Modeling Study of the Bakken Formation, Williston Basin, USA
- **M. Schoell, J. Lefever:** Carbon and Hydrogen Isotope Systematics in Bakken Shale Gases: Prediction of Rock and Fluid Properties from Gas Isotopes as Guide to Mudgas Isotope Data Interpretations
- **L. A. Dunn, D. Edwards:** Stratigraphy and Sedimentology of the Upper Montney Shale Gas Reservoir North East British Columbia, Canada
- **P. Shuler:** New Chemical EOR Process for Bakken Shale

Theme II: Stratigraphic Compartmentalization of Hydrocarbon Reservoirs (SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C. Calvert, R. Gani and J. Connolly

- **H. Sahoo, R. Gani, G. Hampson, N. Gani, T. O. Jewell, A. Ranson:** Bed-Scale Facies Architecture of Coastal-Plain Channel and Overbank Deposits in a Tight-Gas Reservoir Analog: Cretaceous Blackhawk Formation, Wasatch Plateau, Utah
- **R. V. Macauley, S. M. Hubbard, B. D. Miles, R. Schroeder:** Architecture of Deep-Water Channel Complex Deposits, Tres Pasos Formation, Chile: Insights into Reservoir Compartmentalization in Channel-Lobe Transition Strata
- **D. E. Eby, T. C. Chidsey, Jr., D. A. Sprinkel:** Carbonate Heterogeneity Based on Lithofacies and Petrography of the Jurassic Twin Creek Limestone in Pineview Field, Northern Utah Thrust Belt
- **A. Rittersbacher, J. Howell, S. Buckley, N. Richter, A. Sima, J. Vallet, K. Keogh:** Using Oblique Helicopter Lidar to Document Fluvial Reservoir Architecture: Examples from the Cretaceous and Tertiary of Eastern Utah
- **M. O. Abouelresh, R. M. Slatt:** High-Frequency Sequence Stratigraphic Analysis of the Barnett Shale, Johnson County, Fort Worth Basin, Texas, USA
- **F. S. de Miranda, N. P. Couto:** Integrated Petrophysical Analysis to Discriminate Reservoir Facies and Its Productivity Potential in Fluvial Eolian Gas Bearing Sandstones
- **S. Liang, J. Wang:** High-Frequency Stratigraphic Sequence Characteristics in the Gentle Slope Zones in Large Depression Basins — Case Study of Qingshankou Formation of Northern Part of Songliao Basin in China

Theme VIII: Coal: Versatile Fuel Source for the Future (EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

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

- **J. C. Fisk, K. J. Marfurt, H. T. Mai, M. C. Matos, D. Cooke:** Correlating Heterogeneous Production to Lithology and Fractures in Coalbed Methane Exploitation
- **R. C. Milici:** Potential Impact of Large-Scale Coal-to-Liquids Utilization on Remaining Coal Resources of the United States
- **G. L. Kinsland, C. Borst, K. Das, M. McWhorter:** Interpretation, Visualization and Presentation of Digital Well-Log Data in 3-D Virtual Reality Space: Application to Mapping of Coals
- **J. Wang, G. Chen, T. Wang:** The Geochemical Characteristics of Coal Measure Strata and Coal-Derived Hydrocarbon in Huhehu Sag, Hailaer Basin
- **X. Lu, X. Zhang:** Geological Characteristics of Coalbed Gas in Minhe Basin, in the Western China
- **W. A. Ambrose:** Delineating Areas for Clean Coal in Texas: Geology and Infrastructure
- **R. R. Tonnsen, J. Miskimins:** A Conventional Look at an Unconventional Reservoir: Coalbed Methane Production Potential in Deep Environments

Theme IV: Conjugate South Atlantic Margins (AAPG/SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: A. Danforth and W. Mohriak

- **C. Scholz:** Oblique and Orthogonal Rifting in the East African Lakes: Analogs to the South Atlantic Pre-salt Basins

- **D. Aslanian, M. Moulin, M. Rabineau, F. Klingelhoefer, F. Bache, L. Matias, A. Gailler, A. Afilhado, C. Gorini, P. Schnurle, M. Patriat, C. Labails, M. Beslier, J. Olivet, E. Leroux, M. Sahabi, W. Roest:** Towards General Rules for the Continental Thinning Process Through Studies in South Atlantic, Central Atlantic and West Mediterranean Sea?
- **M. V. Grand, I. Deighton:** The Prospectivity of Offshore Sierra Leone Using Newly Acquired 3-D Data
- **C. M. Urien, C. Schiefelbein, W. Dickson, M. E. Odegard:** Hydrocarbon Prospectivity of the South West Atlantic Margin
- **E. Johnson, R. Eisenberg, J. Francis:** Understanding the Influence of Plate Tectonics, Paleo-Geography, Climate, and Heat Flow on Pre-Salt Petroleum Systems of the South Atlantic
- **M. C. Raddadi, P. Markwick, C. Hill:** Palaeogeographic Evolution and Petroleum Potential of the Equatorial Atlantic Margins
- **S. G. Henry, L. Sebastiao, N. Kumar, A. Sebastiao, S. Venkatraman:** Tupi's Conjugate: New Pre-Salt Plays in the Angolan Offshore
- **A. Danforth, N. Kumar, S. G. Henry, S. Venkatraman, P. Nuttall:** New Views of the Early-Formed Ocean in the South Atlantic Conjugate Margins Based on PSDM Seismic
- **A. Adriasola Munoz, C. Glover, J. Harris, M. Goodrich, L. Hudson, B. Ady:** Modelling Continental Margin Extension Using Combined Rigid/Deformable Plate Tectonic Reconstructions
- **M. D. Wittstrom, R. Fainstein:** Oil Without Salt — New Frontiers Beyond the Salt Basins

Theme IV: Conjugate Central and Northern Atlantic Margins (AAPG/SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: D. E. Brown and G. Tari

- **G. D. Wach, D. Mosher:** Margin Evolution and Reservoir Distribution — Examples from Cenozoic of the Central Atlantic Margin
- **A. MacDonald:** New Cohasset-Panuke-Penobscot-Type Oil Prospects of Offshore Nova Scotia, Canada. Analogous Plays Within in the Cretaceous and Jurassic Formation Deltaic Sands
- **T. Koning:** The East Georges Bank Basin, Offshore Nova Scotia: A Undrilled Basin with Significant Oil & Gas Potential
- **A. Wenke, S. Deder, R. Zühlke, O. Kluth, J. Schober:** Sequence Stratigraphy and Basin Development — Tarfaya Basin, Morocco
- **G. Bertotti, M. Gouiza, M. Hafid, P. Andriessen:** Late Jurassic-Early Cretaceous Tectonics and Exhumation Onshore Morocco: Implications for Terrigenous Sand Reservoirs in the Offshore of NW-Africa
- **B. Ghorbal, P. Andriessen:** Potential Oil Reservoirs Along the Central Atlantic and Western Alpine Tethys Margins Documented by the Post-Rift Exhumation of Their Hinterlands
- **M. L. Malinconico, R. E. Weems:** Thermal Maturity of the U. S. Atlantic Coastal Plain Based on Legacy Exploration and Stratigraphic Test Wells, Including Hatteras Light Esso #1
- **W. Dickson, M. E. Odegard:** Northwest Frontier Revisited: Newly Defined Rift Features Offshore Mauritania, Senegal and the Guineas of Northwest Africa
- **I. Effimoff, L. Martin, M. Laughland, J. O. Medou:** Exploration of the Senegalese Portion of the Greater MSGBC Basin: A New Frontier Petroleum Province
- **D. Jablonski, S. Westlake, C. M. Gumley*:** Offshore Jamaica — A New Frontier? Unmasking the Potential of the Walton Basin
- **G. Scaife, S. Jdageo:** Modern Seismic Processing Techniques are Vital to Unlocking the Potential of the Trinidad and Tobago Ultra-Deep Offshore Area

Theme V: Complex Structural Modeling in Honor of Ted Apotria (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: D. Goff and B. Kilsdonk

- **D. A. Ferrill, A. P. Morris, R. N. McGinnis, K. J. Smart:** Field Tests of Geomechanical Models of Natural Rock Deformation: Insights from the Bargy Anticline, France
- **P. J. Lovely, D. D. Pollard, E. Flodin, C. Guzowski, F. Maerten:** Pitfalls Among the Promises of Mechanics-Based Structural Restoration
- **T. D. Carruthers, J. A. Cartwright:** Using Polygonal Fault Systems to Reconstruct the State of Stress Associated with Salt Diapirs
- **S. Bose, S. Mitra:** Three Dimensional Structural Analysis of a Salt Cored Convergent Transfer Zone in the South Timbalier Block 54, Offshore Gulf of Mexico



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- **D. Similox-Tohon, A. Scherrenberg, S. Clelland, G. H. Davis:** 3-D Structural Modeling — The Mount Lykaion (Greece) Sanctuary of Zeus Case Study
- **A. A. Henza, M. O. Withjack, R. W. Schlische:** Pre existing Zones of Weakness: An Experimental Study of Their Influence on the Development of Extensional Faults
- **T. E. Majekodunmi, D. V. Wiltschko, B. Kilsdonk:** Sedimentation Aided Salt Flow, Fold Growth, and Faulting: Chinook and Cascade Folds, Deepwater Gulf of Mexico
- **A. P. Morris, D. A. Ferrill, R. N. McGinnis, J. McFarland, B. Bichon, D. Riha:** Slip Tendency and Cumulative Fault Displacement
- **M. Auer, A. Domzig:** Application of Forward Modeling in Fold Thrust Belts — An Alpine Example
- **B. Sapiie, A. Pamumpuni, A. Nugraha, W. Kurniawan, I. J. Saputra, T. T. Simo:** Balancing Cross-Sections and Fractures Characterization of Rajamandala Limestone; Western Java, Indonesia
- **N. D. Gani, R. Gani:** Deciphering Evolution of Extensional Fault Systems from Transient Behavior of Bedrock Channels: An Example from the Incision of the Ethiopian Plateau
- **I. K. Mohammad, S. Ahmad, A. Ali Khan, A. Ali:** Structural Style, Evolution and Hydrocarbon Prospects of the Bhattani Range, Northwest Himalayas, Pakistan

- **S. Ahmad, I. K. Mohammad, A. Ali Khan, N. Shoukat:** Himalayan-Induced Deformational Events and Kinematics of the Arcuate Nature of Trans Indus Salt Ranges, Northwest Himalayas, Pakistan
- **T. P. Dooley, M. P. Jackson, M. R. Hudec:** Roof Breakup and Extrusion of Shallow Salt Stocks During Lateral Shortening

Theme VII: Paleontology in the 21st Century: A Symposium Dedicated to Ed Picou (SEPM/AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: M. B. Farley, R. Rosen and D. Griffith

- **D. S. Van Nieuwenhuise:** Foraminiferal and Ostracodal Assemblages Associated with Tempestite Deposition from Baffin Bay, Texas
- **S. Garzon, S. Warny, C. Jaramillo, F. De La Parra:** Palynomorphs from Upper Cretaceous Sequences in Central Colombia: Using Paleopalynology as a Correlation Tool for Oil Exploration.
- **A. Gary, E. Platon:** Micropaleontological Ontology: A Link to the Future Earth Science Semantic Technologies
- **R. K. Saxena:** Paleogene Calcareous Nannofossil Biostratigraphy of Western Offshore Basin, India
- **A. Gupta:** Neogene Siliceous Multimicrofossils from Deep-Water Sediments of East Coast of India and Their Efficacy in Age Determination, Environment of Deposition, Paleoclimate and Applications in Biochronological Correlations

- **R. W. Butler, B. E. Lock:** Micropaleontology as a Tool in the Interpretation of the Del Rio Formation, West Texas
- **W. T. Jones, S. T. Hasiotis:** Paleoenvironmental Associations of Trace Fossils in the Upper Devonian Catskill Formation of North-Central Pennsylvania, USA
- **F. Mantilla Duran, S. Garzón, V. Torres:** How Palynology Contributes on Hydrocarbon Exploration: A Case of Study from Colombia, South America
- **L. Reggiani:** From Unicellular Algae to the Oceanic Scale: The Opening of the Atlantic Ocean Documented by Calcareous Nannofossils
- **L. Contreras, G. Rodriguez, M. Rueda, G. Bedoya, C. Santos, F. De La Parra:** Palynological Events from Maastrichtian to Eocene in the Middle Magdalena Valley Basin, Colombia
- **S. Jirin, R. J. Morley, M. Kadir, M. Mohamed:** Characterization of Peat-Forming Environments of Miocene Coal Using Biofacies in the Malay Basin, Malaysia

TUESDAY MORNING POSTERS

Tuesday Afternoon Poster Sessions

Presenters in their Booths (3:00 p.m. – 5:00 p.m.)

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

TUESDAY AFTERNOON POSTERS

Theme I: Petroleum System Analysis (AAPG/SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: L. B. Magoon and K. Peters

- **T. Allen, K. Osadetz, B. Mayer:** Isotopic Characterization of Natural Gas Seeps Identified in Peel Plateau, Yukon Territory, Canada
- **D. L. Boyd, Z. Anka, R. di Primio, M. de Wit, J. Aldrich:** Seismic Interpretation, Distribution, and Numerical Modeling of Natural Gas Leakage on Block 2 of the Orange Basin, Offshore South Africa
- **M. J. Loegering, J. Autin, Z. Anka, J. F. Rodriguez, D. Marchal, R. di Primio, E. L. Vallejo, M. Scheck-Wenderoth, G. Kohler, F. Pangaro:** Sedimentary and Tectonic Evolution and Their Possible Controls on HC Migration in the Colorado Basin, Offshore Argentina, South America
- **F. Wang, Y. Tang, Z. He, J. Li, H. Zhen:** Map-Based Isotopic Kinetic Tool to Simulate the Generation and Accumulation History of Natural Gas
- **G. Liu, M. Sun:** Geopressure Regime and Its Effect to Hydrocarbon Migration and Accumulation: A Case Study of Nanpu Depression Bohai Bay Basin, China
- **H. W. Mueller:** General Model for Delivery of Asphaltenes to Tar Mats
- **Z. Chen, M. Zha, J. Qu, K. Wu:** Multiple Hydrocarbon Accumulation Systems and the Pathways for Hydrocarbon Migration in Luliang Uplift, the Junggar Basin, China
- **J. Qu, M. Zha, L. Li:** Experimental Simulation of Migration Along Unconformity: A Case Study of the "S" Shape Reservoir-Controlling System from the Northern Part of Dongying Depression of China

Theme I: Innovative Interpretation and Use of Seismic Data (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: T. Maciejewski and D. Smith

- **B. J. Black, T. C. Anderson, J. Ng:** Characterizing the Lakota Sandstone Using 3-D Seismic Data and Well Data: Teapot Dome, Wyoming

- **C. A. Vargas Jimenez, P. Mann, C. Gomez, L. A. Briceño, C. Rey:** Trans-Andean Mega-Regional Seismic Reflection Line Extending from the Caribbean Coast to Cordillera Oriental of Colombia: Implications for Hydrocarbon Exploration
- **W. S. Hammon:** Intelligent Defaults and Single-Slice Results for Rapid Selection of the Best Volume Attribute Parameter Values
- **M. J. Padgett:** A Comparison of Four Methods for Performing Fluid Contact and Flat Spot Analysis as Applied to a Single Gulf of Mexico 3-D Seismic Anomaly
- **D. Das, S. Akhter, S. K. Roymoulik, H. Singh:** Hydrocarbon Exploration Prospect of Girujan Clay Formation of North Assam Shelf: A Case Study of Geocellular Modeling of Lakwa Area
- **T. Torvela, R. Butler, W. D. McCaffrey:** Using the Virtual Seismic Atlas to Aid Interpretation of Deepwater Fold-Thrust Belts

Theme X: Plays (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: E. C. McDade and B. M. Suppes

- **R. Smith, G. Severson:** SMI 212 Flatrock Field, A Deeper Pool
- **S. Sonnenberg:** Petroleum Geology of the Giant Elm Coulee Field, Williston Basin
- **D. Rajmon, G. S. Steffens:** Hydrocarbon Accumulations and Exploration Considerations Associated with Impact Structures
- **J. P. Martin:** Is it Time to Revisit the Eastern Overthrust Belt of New York and New England?
- **T. P. Van Biersel, D. A. Carlson, L. Milner:** Haynesville Play Development: Sustainability Analysis of Local Fresh Groundwater Resources in Northwest Louisiana
- **L. Bingham, A. Escalona, P. Mann:** Creaming Curves and Discovery Trends of Five Basins from the Gulf of Mexico to Northern South America

Theme I: Basin Modeling (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: N. Harris and D. K. Higley

- **G. S. Ellis, P. G. Lillis, S. Cumella, T. J. Dewane:** Kinetic Isotope Fractionation Modeling of Natural Gas Geochemistry in the Mamm Creek Field, Piceance Basin, Colorado
- **R. di Primio, F. Baur*:** The Jeanne d'Arc Basin Offshore Canada: Testing the Predictive Capacity of PhaseKinetic Models Using 3-D Basin Modeling
- **S. O'Connor, R. Swarbrick, R. Lahann, P. Clegg, D. Scott, S. Green, B. Pindar:** Pore Pressure Prediction in Challenging Areas — Reducing Uncertainty by Understanding Rock Behaviour
- **C. F. Odumodu, A. W. Mode:** Regional Heat Flow Variations in the Eastern Parts of the Niger Delta
- **R. Ondrak, R. di Primio, T. L. Leith, G. Lescoffit, B. Horsfield:** Reconstruction of the Hydrocarbon-Filling History of a Haltenbanken Oil Field, Mid-Norway Using Basin Modeling
- **E. J. Torres, M. Vasquez, M. Garcia-Gonzalez, T. Joppen:** Oil and Gas Potential of the Cretaceous La Luna Formation in the Cesar Valley, Colombia. An Application of Basin Modeling in a Complex Thrust System
- **T. M. Gebregergis, W. I. Wan Yusoff:** Thermal Maturity Modelling for Source Rocks in JL Field, Offshore Sarawak Basin, Malaysia

Theme IV: Asia (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: J. W. Granath and J. Lambiase

- **J. A. Curiale, J. Decker:** Eocene Oil-Prone Source Rock Potential of Central Indonesia
- **X. Qinglong, T. Lixin, P. Wen Xu*, S. Hefeng:** Hydrocarbon Accumulation of Neogene Shallow Water Delta: A New Model in the Yellow River Mouth Depression, Offshore Bohai Bay Basin, Eastern China



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- **A. Nandi, S. Sengupta, C. Chaudhury, K. Chakraborty:** Seismic Geomorphology of Mass Transport Complexes (MTCs) and Its Importance in Hydrocarbon Exploration in the Forearc Deepwater Basin, Andaman, India
- **X. Qinglong, J. Deng, C. Xu:** Strike-Slip Faulting Activities in the Tan-Lu Fault Zone and Their Relationship with Hydrocarbon Accumulation — An Example from Jinxian Area, Bohai Bay, China
- **A. Quallington, K. Wilson, L. Gill, S. Williams, D. Eue, G. Scougal, N. Henshaw:** The Indian Western Margin: An Integrated Assessment of the Petroleum Potential of a Former Hot-Spot
- **P. J. Markwick, R. Bouatmani, S. T. Mazur, M. Hammill, D. Eue, M. G. Stewart, N. Henshaw, S. Williams, K. Wilson:** A New, GIS-based Structural and Tectonic Map of Southeast Asia
- **G. Roberts, C. Harmer:** Andaman Basin, India: Hydrocarbon Prospectivity from Newly Reprocessed Seismic Data
- **W. Dickson, M. E. Odegard, J. W. Granath, D. Hughes, J. M. Christ:** Reef, Reef-Topped Volcano, Volcano or Carbonate-Topped Horst? Discriminating Examples from Indonesia's Offshore North Makassar, Gorontalo and Arafura Sea Regions
- **W. Zhu, C. Xu, X. Zhou:** Characteristic and Forming Mechanism of Large-Scale Light Oilfield in Continental Basin: An Example from Jinzhou 25-1 Area in Liaoxi Sag of Bohai Bay Basin, China

Theme IV: Petroleum Systems of the Tethyan Region (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: C. G. Kendall, L. Yose and L. Marlow

- **A. Derman:** Petroleum Systems of Turkish Basins
- **L. Montadert, S. Nicolaidis, P. Semb, O. Lie:** Petroleum Systems Offshore Cyprus
- **L. Marlow, C. G. Kendall, K. Kornpihl:** The Tectonostratigraphic History and Petroleum Potential of the Levantine Basin
- **M. As-Saruri, R. Sorkhabi:** Sedimentary Basins and Petroleum Plays of Yemen
- **F. H. Nader:** Petroleum Prospects of Lebanon
- **M. A. Gardosh:** Petroleum Systems of Israel — New Discoveries Highlight Offshore and Onshore Potential
- **E. Barrier, L. Machhour, M. Blaizot:** Geological Evolution and Petroleum System of Syria
- **H. S. Hassan, C. G. Kendall:** Hydrocarbon Provinces of Libya: A Petroleum System Study
- **A. S. Alsharhan, C. J. Strohmenger, A. I. Al Mansoori:** Mesozoic Petroleum Systems of Abu Dhabi, United Arab Emirates
- **A. S. Alsharhan:** Mesozoic Stratigraphy and Hydrocarbon Habitats of Kuwait

Theme VII: Understanding the Gulf of Mexico: Depositional Systems, Play Concepts and Structure (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: C. Fiduk and M. G. Rowan

- **S. P. Dutton, R. G. Loucks:** Detrital Mineral Composition and Reservoir Quality of Lower Miocene Sandstones, Western Gulf of Mexico
- **T. R. Lovell, A. Weislogel:** Provenance and Paleogeography of the Late Jurassic Norphlet Formation, Eastern Gulf of Mexico
- **V. S. Mount, S. H. Mentemeier, A. C. Klein:** Structural and Stratigraphic Complexities in Traps Adjacent to Salt Stocks and Ridges in Gulf of Mexico Deepwater Subsalt Plays
- **L. He, R. Poling:** A 500-Mile Seismic Cross Section Through Crucial Lower Tertiary Wells Exhibits Cenozoic Structure and Stratigraphy Changes from the West to Northeast in the Deepwater Gulf of Mexico
- **B. J. Radovich, C. D. Connors, D. Howard, G. Aziz:** Interpretation of Reimaged Basin-Scale Long-Offset, Long-Record Length 2-D Seismic Data from the Northern Gulf of Mexico
- **J. J. Daal, E. H. Guevara*:** Largest Oil and Gas Discoveries in Mexico in 2002-2008, Gulf of Mexico Basin
- **D. M. Robinson, A. Weislogel, B. Hunt, K. L. Wilson, T. Lovell, B. Smelser:** Evaluating the Basement Architecture and Mesozoic Prospectivity of the Eastern Gulf of Mexico
- **D. Eickhoff, N. Blythe:** Compaction and Quartz Cementation Modeling for Reservoir Quality Prediction in Sub-Salt Reservoirs of the Deepwater Gulf of Mexico
- **R. Boswell, T. S. Collett, E. Jones:** International Joint Industry Project to Assess the Occurrence and Implications of Gas Hydrates in the Gulf of Mexico

- **E. A. Mancini, T. Yancey:** Hydrocarbon Potential of Paleogene (Wilcox) Deep-Water Lowstand Sandstone Facies, Northeastern Gulf of Mexico: Extension of the Offshore Gulf of Mexico Paleogene (Deep-Water Wilcox) Play
- **J. Nunn:** Uplift, Subsidence, and Reactivation of the Sabine Uplift Due to Changes in Flexural Compensation Between Different Crustal Blocks: Implications for the Burial and Thermal History of the Haynesville Shale
- **M. J. Roberts:** Beyond the Sigsbee: History of Exploration and Future Prospectivity
- **D. A. Leckie, M. Fustic, C. Seibel:** Geoscience of One of the Largest Integrated SAGD Operations in the World — A Case Study from Long Lake, Northeastern Alberta

Theme II: Source-to-Sink Sediment Dispersal, Modern and Ancient (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: O. J. Martinsen, B. Sheets and C. Nittrouer

- **C. Nittrouer, K. Lee, K. Boldt, A. Ogston:** Tidal Flats in S2S Systematics: Importers and Exporters of Fine Sediment
- **M. S. Ullah, S. L. Goodbred, R. D. Pate, P. Youngs:** The Late Quaternary Avulsion History of the Ganges and Brahmaputra River, Bengal Basin, Bangladesh: Application of Sr Geochemistry
- **L. E. Rose, S. Kuehl, C. Alexander, A. Orpin:** Carbon Isotopes Provide Distinctive Signatures for Tracking Tectonic Forcing and Sea Level Changes on an Active Margin
- **C. Labaune, M. L. Sweet*, M. Bez, T. Marsset, L. Droz, G. Calvès:** Quaternary Deepwater Deposits of the Golo Basin/Corsica Trough: East Corsica
- **Z. Shen, T. E. Tornqvist, W. Autin, B. Mauz:** Relative Sea Level Versus Climate Forcing of the Lower Mississippi River During the Last Two Glacial-Interglacial Cycles
- **A. K. Thurmond, I. Lunt, T. L. Leith, J. Skogseid, O. J. Martinsen:** A New Workflow for Basin-Scale Sediment Prediction: Integrating Plate Tectonics and Palaeoclimate Models in a Source-to-Sink Context
- **D. R. Pyles, A. Moss-Russell, H. Silalahi, D. A. Anderson, B. Bracken, J. Clark, R. Bouroullec, J. D. Moody:** Integrating Outcrop Data to Define Regional and Reservoir-Scale Patterns in Prograding Shelf-Slope-Basin Systems, Sobrarbe Formation, Spain
- **M. Santra, R. Steel, M. L. Sweet:** Basin-Fill Geometry of Eocene Tyee Basin — From Fluvial Deposits to Extensive Sand-Rich Basin Floor Fans
- **R. W. Weight, J. B. Anderson:** Origin of the Texas Mud Blanket, Central Texas Shelf: Implications for Fine Grain Sediment Flux and Redistribution During Transgression
- **S. Kerrin, P. Bart:** Seismic-Stratigraphic Based Reconstruction of Middle Miocene Meltwater Discharge and Other Glaciogenic Features on the Eastern Basin Outer Continental Shelf, Ross Sea, Antarctica
- **K. M. Roe, B. Rosenheim, B. Roberts, M. Allison, A. S. Kolker, D. Duncan, J. A. Nittrouer, K. Butcher, A. Nyman, J. Adamic:** An Investigation of the Mississippi-Atchafalaya River System as a Source or a Sink of Organic Carbon
- **S. Tyrrell, P. W. Haughton*, J. Daly, P. M. Shannon:** Tracking Sand Grains from Source to Sink Using the Pb-in-K-feldspar Provenance Tool: Examples from Sedimentary Basins on the NW European Margin

Theme VIII: Exploration and Production of Shale Gas Resources (AAPG)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: B. Cardott and W. Dow

- **J. F. Gale, S. E. Laubach, L. J. Fidler:** Natural Fractures in the New Albany Shale, Illinois Basin, and Their Importance for Shale-Gas Production.
- **G. Lash, T. Engelder:** Thickness Trends and Sequence Stratigraphy of the Middle Devonian Marcellus Shale, Appalachian Basin: Evidence of the Influence of Basement Structures on Sedimentation Patterns
- **R. M. Portas, R. Slatt:** Characterization and Origin of Fracture Patterns in a Woodford Shale Quarry in Southeastern Oklahoma for Application to Exploration and Development
- **H. Moore, M. Sandstrom, E. Ringer:** Inferred Depositional Environments of Bossier-Haynesville Black Shales in the Greater Sabine Area, Northwestern Louisiana
- **F. P. Wang, U. Hammes:** Key Petrophysical Factors Affecting Fluid Flow in Geopressured Haynesville Shale

- **J. D. Edman, J. K. Pitman:** Evaluation of Maturation and Petroleum Generation in the Eagle Ford Shale, First Shot Field, Texas
- **M. A. Moreno:** Gas Potential of Upper Cretaceous Shales in the Center and North Areas of the Eastern Cordillera, Colombia
- **J. T. Haynes, T. R. Rose, K. E. Goggin, S. J. Whitmeyer, S. M. Walker:** Petrography and Micropore Systems of Mudrocks, Concretions, Nodules, and Ash from Devonian Shales in Highland and Bath Counties, Virginia
- **R. Perez:** Quantitative Petrophysical Characterization of the Barnett Shale
- **H. Hamlin, U. Hammes:** Stratigraphic and Depositional Controls on Shale-Gas Reservoir Development in the Haynesville Shale, Northwestern Gulf of Mexico Basin
- **H. Rowe, N. Hughes:** Strategy for Developing and Calibrating Shale and Mudstone Chemostratigraphies Using Hand-Held X-ray Fluorescence Units
- **A. I. Younes, B. Gebhart, J. Jamison:** Bossier - Haynesville: Developing Mechanically Layered Shale Gas Plays
- **U. Hammes, R. Eastwood, H. Hamlin:** Influence of Facies Variations on Exploration, Production, and Resource Assessment in Gas-Shale Plays: A Geologic and Petrophysical Evaluation of the Haynesville Shale, East Texas, USA
- **T. Engelder:** Speculation on the Role of Low Water Saturation During Layer-Parallel Shortening of the Marcellus Gas Shale

Theme II: Mapping, Modeling, and Understanding Facies Heterogeneity in Carbonate Deposits (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: E. C. Rankey and S. L. Reeder

- **P. M. Harris, J. Ellis:** Depositional Facies Patterns and Resultant Heterogeneity in Carbonate Sand Reservoirs — Insight from Modern Analogs
- **B. Wilkinson, C. Drummond:** Lateral Heterogeneity of Carbonate Lithotypes Across Modern Depositional Surfaces
- **S. J. Purkis, K. E. Kohler, B. Riegl, S. Dunn, G. Rowlands:** Laws of Depositional Architecture Atop Modern Carbonate Platforms
- **A. J. Barnett, V. P. Wright:** Porosity Evolution in the Bassein Limestone of Panna and Mukta Fields, Offshore Western India: Burial Corrosion and Microporosity Development
- **E. L. Frost, D. A. Budd, C. Kerans, T. Allwardt:** Syndepositional Fault and Fracture Control on Diagenetic Fluid-Flow, Tansil Carbonates (Permian), Dark Canyon, Guadalupe Mountains, New Mexico
- **Z. Li, R. Goldstein, E. Franseen:** Mixing of Freshwater and Evaporated Seawater: A Control on Porosity Distribution in Upper Miocene Carbonates of Southeast Spain
- **D. Katz, T. Playton, P. M. Harris, J. Bellian:** Slope Heterogeneity of a Steep Upper Paleozoic Isolated Carbonate Platform Reservoir, Karachaganak Field, Kazakhstan
- **J. Wendte, A. Byrnes, D. Sargent:** Limestone-Fraction Porosity: A Key Concept in Assessing the Role of Dolomitization on the Origin of Pores of Dissolution Origin in a Dominantly Limestone Succession, the Upper Devonian Jean Marie Carbonate of Northeastern British Columbia
- **J. J. Lodge, D. Leverington, P. F. Holterhoff:** Classifying Digital Imagery of Modern Isolated Carbonate Platforms for Facies Conditioning of Reservoir Models: Examples from Offshore Belize and Yucatan
- **N. M. Alghamdi, M. Pope, J. Read:** Integrated Chemostratigraphy and Facies-Based Sequence Stratigraphic Framework for Reservoir Characterization of Lower Cretaceous Aptian Shuaiba Reservoir, Shaybah Field, Saudi Arabia
- **K. O. Al-Temimi, F. J. Read:** Sequence Stratigraphy of Subsurface Late Jurassic Arab D Formation, Hawiyah and Harmaliyah fields, Saudi Arabia
- **S. B. Reid, G. P. Eberli, D. F. McNeill, K. Verwer, P. M. Harris:** Facies and Stratigraphic Juxtaposition of Marine and Eolian Deposits During Pleistocene Sea level Highstands, New Providence Island, Bahamas
- **D. Lavoie, S. Jackson, I. Girard:** Mg Isotopes in High Temperature Saddle Dolomites from the Lower Paleozoic of Eastern Canada: Significance for the Source of Magnesium and Their Origin
- **L. A. Walters, E. Franseen, R. Goldstein, A. Byrnes:** Heterogeneity of Miocene Deepwater Heterozoan Carbonates and Reservoir Potential



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- **A. Hess, R. Goldstein, E. Franseen:** Antecedent Topography as a Control on Facies Heterogeneity in a Shallow Heterozoan Carbonate System, SE Spain
- **G. Butler, P. F. Holterhoff, S. Rosscoe:** High-Frequency Sequence Stratigraphic Controls on Stratal Architecture of an Upper Pennsylvanian "Regressive Limestone" (Bethany Falls Limestone), Mid-Continent, USA
- **R. Aisner, C. Kerans:** Stratigraphic Architecture and Facies of the Mural Limestone, Southeastern Arizona
- **E. M. Young, R. Goldstein, E. Franseen:** Faults, Depositional Setting, Sea-Level Change, and Diagenesis Control on Heterogeneous Carbonate-Chert Reservoirs Within Mississippian (Osagean) Strata in South-East Kansas

Theme VI: Regional Interactions of Tectonics and Sedimentation: Examining Relationships Between Deformation and Basin Evolution (SEPM)

Exhibition Hall 1:15 p.m. – 5:00 p.m.

Co-Chairs: J. L. Aschoff and B. K. Horton

- **A. R. Mora, J. Naranjo, J. Tamara, V. Blanco, A. Ortiz, B. K. Horton, R. A. Ketcham, A. Kammer:** Kinematic History of Brittle Structures and Planar Fabrics in the Eastern Cordillera of Colombia Deduced from Multidisciplinary Evidence
- **J. E. Saylor, D. F. Stockli, J. Corredor, N. Sanchez, V. Blanco:** Detrital Zircon (U-Th)/He and U-Pb Geochronology of the Floresta Basin, Eastern Cordillera, Colombia

- **J. Nie, B. K. Horton, A. Mora, J. Saylor, T. Housh, J. Rubiano, J. Naranjo:** Detrital Zircon U-Pb Geochronology and Sm-Nd Isotopic Constraints on the Evolution of the Magdalena Valley Basin, Colombian Andes
- **B. K. Horton, A. Mora, J. Rubiano, A. Reyes-Harker, D. F. Stockli, J. E. Saylor, V. Blanco, M. Parra, R. A. Ketcham, J. Nie, D. Garcia:** Tracking Uplift of the Colombian Andes Using Detrital Zircon Ages, Basin Fill Histories, Low Temperature Thermochronology, and Regional Structural Relationships
- **M. Salazar, L. G. Moscardelli*, W. Fisher, M. A. Lorente:** Tectonostratigraphic Evolution of the Morichito Piggyback Basin, Eastern Venezuelan Basin
- **L. R. Sternbach, S. Bang, C. Bianchi, J. Cespedes, Y. Han, D. S. Choi:** Offshore Peru, Trujillo Basin, Block Z-46: 2-D PSTM Seismic Processing Reveals Deep Basins, Deformed by Different Episodes of Normal and Trans-tensional Faulting, and Thick Eocene/Oligocene Stratigraphically complex Submarine Fans Linked to Evidence of Hydrocarbons/DHIs
- **Y. Wenxiu, A. Escalona, P. Mann:** Tectono-Stratigraphic Evolution of the Continental Shelf of Guyana and Suriname
- **K. Raines, R. N. Kukulski, B. D. Miles, R. Rose, H. Rose, S. M. Hubbard, A. L. Leier:** Stratigraphic Architecture of the Jurassic-Cretaceous Nikanassin Group, British Columbia and Alberta: Evidence for Tectonic Influence on the Initial Coarse Clastic Depositional Cycle in the Western Interior Foreland System
- **J. L. Rothfuss, A. Weislogel, S. Michalak:** Influence of Ancestral and Syndepositional Tectonic Regimes on Sediment Dispersal Pathways in Intermontane Basins: Facies and Paleoflow Evidence from the Renova Formation, Southwest Montana

- **J. Kluesner, P. Lonsdale:** Plate-Boundary Tectonism and Magmatism Meets Prolific Sediment Supplies in the Young Oceanic Basins of the Southern Gulf of California
- **H. Park: Flexural Modeling:** Variable Tectonic Subsidence in the Paleozoic Appalachian Foreland Basin, Pennsylvanian Silet, Central-Northern West Virginia and Southern-Central Pennsylvania
- **A. Domzig, Z. Schleder, S. Hoth, D. Knaust, R. Kluge, S. Ottesen:** Controls on Sand Deposition Patterns by 3-Surfaces: A Case Study from the South Viking Graben, North Sea
- **N. Backert, M. Ford, F. Malartre:** Tectonic and Eustatic Controls on the Stratal Architecture of a Giant Gilbert-Delta, Corinth Rift, Greece
- **M. Auer, H. Gawlick, S. Missoni, F. Schlagintweit, H. Suzuki:** Basin Formation Along the Propagating Alpine-Carpathian-Dinaride Thrust Belt (Central-Southeastern Europe)
- **V. M. Alania, V. Glonti, O. Erukidze, Z. Lebanidze, S. Tsertsvadze, R. Chagelishvili:** Time and Style of Deformation of the Kura Foreland Fold-and-Thrust Belt, South-East Georgia (Georgia)
- **J. E. Wu, K. McClay:** Analogue Modeling of Fold-and-Thrust Belts: Dynamic Interactions with Syn-tectonic Sedimentation and Erosion
- **F. Zhao:** Study on the Strike-Slip Fault and Its Relationship with Petroleum Exploration in the Western Qaidam Basin, China
- **K. Zhong, G. Zhang, G. Hou, G. Chen, Y. He, C. Qin, H. Shen, X. Jin:** Contrasting Structural, Tectonic and Sedimentary Features Between the East and West Qiongdongnan Basin, South China Sea: Implications for Deepwater Oil and Gas Exploration

TUESDAY AFTERNOON POSTERS

Wednesday Morning Oral Sessions

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

WEDNESDAY MORNING ORALS

Theme I: Rock Physics and Quantitative Seismic Analysis (AAPG)

Room 238/239

Co-Chairs: E. Clark and S. M. Porche

8:00 **Introductory Remarks**

8:05 **J. M. Florez:** Velocity, Porosity, and Density Compaction Trends for Shale

8:25 **M. T. Myers, L. Hathon:** Application of Staged Effective Medium Models for the Prediction of Velocities

8:45 **L. Hathon, M. T. Myers:** Observations of Intrinsic Anisotropy in Varied Geologic Settings

9:05 **M. A. Gutierrez, J. Dvorkin:** Rock Physics-Based Workflows for Lithology and Fluid Property Prediction in Frontier Basins

9:25 **L. Stright, A. Bernhardt, T. Mukerji, A. Boucher:** The Multi-Scale, Multi-Attribute (MA-MS) Calibration; A Methodology for Predicting Sub-Seismic Scale Facies from Seismic Attributes

Theme I: Evolving Technology (AAPG)

Room 238/239

Co-Chairs: A. Howard and C. P. Siess

10:25 **Introductory Remarks**

10:30 **A. Grader, A. Nur, C. Baldwin, E. Diaz*:** Multi-Scale Imaging Process for Computations of Porosity and Permeability on Carbonate Rocks

10:50 **D. J. Bate, P. Nuttall, J. Hope, B. Kilner, A. McGrail, B. Radovich:** Gravity Gradiometry and Seismic Data Integration: A New Technology Being Used to Develop Emerging and Mature Plays in the Gulf of Mexico

11:10 **C. H. Smith, J. Kneedy, S. Ramakrishna:** Validation of T2 Bin Derived Permeability — A Case Study from Atoka Wash, Oklahoma

11:30 **M. H. Krieger, P. L. Smilde, O. K. Geisler, S. Hossfeld:** Downhole Gravity Gradiometry: A New Technique for Prospect and Reservoir Modeling?

Theme IV: Conjugate Central and Northern Atlantic Margins (AAPG/SEPM)

Room 243/244/245

Co-Chairs: D. E. Brown and G. Tari

8:00 **Introductory Remarks**

8:05 **N. Kuszniir, A. Alvey:** Crustal Thickness and OCT Location for the Central and Equatorial Atlantic Rifted Margins Derived from Gravity Inversion

8:25 **P. E. Olsen, D. V. Kent, M. Et-Touhami:** The Triassic-Jurassic Transition Across the Nova Scotian - Moroccan Conjugate Margins

8:45 **J. Adam, C. MacDonald, C. Campbell, J. Cribb, C. Kreszek, M. Nedimovic, D. Grujic:** Basin-Scale Salt Tectonic Processes and Post-Rift Basin History of the North-Central Scotian Slope and Deepwater Basin

9:05 **M. E. Enachescu, I. Atkinson, J. Hogg, D. McCallum, C. Rowe:** Kimmeridgian Source Rock Super-Highway in the North Atlantic

9:25 **H. Wilson:** New Insights on Hydrocarbon Prospectivity Moroccan and Nova Scotian Conjugate Margins

9:45 **Break**

10:30 **L. Eliuk:** Regional Setting of the Late Jurassic Deep Panuke Field, Offshore Nova Scotia, Canada — Cuttings-Based Sequence Stratigraphy and Depositional Facies Associations Abenaki Formation Carbonate Margin — A Unique Hydrocarbon System and Play Type

10:50 **J. M. O'Sullivan, S. M. Jones, R. J. Hardy:** Geological Modeling of the Porcupine Median Ridge: Implications for the Hydrocarbon Prospectivity of North Atlantic Hyper-Extensional Basin and Margin Systems

11:10 **P. Mann, A. Escalona, Y. Wenxiu:** Tectonic Setting and Hydrocarbon Trendology of a Reported 7-8 TCF Giant Gas Discovery, Eastern Gulf of Venezuela

11:30 **L. Martin, I. Effimoff, J. O. Medou, M. Laughland:** Hydrocarbon Prospectivity of Offshore Senegal; Unlocking the Door to a New Deepwater Petroleum Province

Theme II: Baffles and Barriers — Conduits and Impediments to Fluid Flow (SEPM)

Room 252/253/254

Co-Chairs: W. R. Bailey and W. R. Jorgensen

8:00 **Introductory Remarks**

8:05 **W. Meddaugh, N. Toomey, D. Dull, W. T. Osterloh:** Geological Heterogeneity and Compartmentalization in the Wafra First Eocene Carbonate Reservoir, Partitioned Neutral Zone (PNZ), Saudi Arabia and Kuwait

8:25 **A. D. Keswani, G. Pemberton:** Why Are Mudstones Dolomitized in Mississippian Midale Beds, Weyburn Oilfield, Saskatchewan?

8:45 **H. Camacho, J. R. Boles, G. Garven:** Thermal Anomalies Associated with the Newport Inglewood Fault Zone, Long Beach Field, California

9:05 **C. Smalley, H. Mamode, A. Muggerridge:** Differentiating Barriers from Baffles Using Pre-Production Data

9:25 **M. Croy, J. Wheeler, K. Williams:** Barostratigraphy for Basin Geopressure Analysis



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Theme II: Stratigraphic Compartmentalization of Hydrocarbon Reservoirs (SEPM)

Room 252/253/254

Co-Chairs: C. Calvert, R. Gani and J. Connolly

10:25 Introductory Remarks

10:30 B. Ainsworth: Stratigraphic Compartmentalization Prediction and Ranking in Marginal Marine Systems

10:50 J. Howell, S. Buckley, N. Richter, A. Rittersbacher, A. Sima, K. Keogh: Empirical Understanding of Sedimentary Architecture: Examples from the Campanian of Central Utah

11:10 V. Terlaký, H. Longuépée, J. Rocheleau, L. Meyer, G. van Hees, K. Privett, G. Cramm, A. Tudor, B. Arnott: Facies, Architecture and Compartmentalization of Basin-Floor Deposits: Upper and Middle Kaza Groups, British Columbia, Canada

11:30 G. Grammer, J. Schulz, D. Barnes, R. Gillespie, W. B. Harrison, J. E. Thornton: Stratigraphic Control on the Lateral Distribution of Hydrothermal Dolomites away from Major Fault Zones

Theme I: Petroleum System Analysis (AAPG/SEPM)

Room 255/256/257

Co-Chairs: L. B. Magoon and K. Peters

8:00 Introductory Remarks

8:05 L. B. Magoon: History of the Petroleum System Analysis

8:25 M. R. Mello, N. C. Azambuja Filho, A. J. Catto, A. A. Bender, M. B. Araújo, J. F. Eiras, C. C. Lima: The Giant to Super Giant Sub-Salt Onshore Hydrocarbon Province of the Solimões Basin, in the Amazon Jungle, Brazil: How Big Is It?

8:45 N. B. Schoellkopf: Quantitative Assessment of Hydrocarbon Charge Risk in Exploration New Ventures — Are We Fooling Ourselves?

9:05 D. K. Higley, S. B. Gaswirth, N. Gianoutsos, T. A. Cook: Petroleum System Assessment of Anadarko Basin Continuous and Conventional Resources

9:25 P. G. Lillis, D. Selby: Rhenium-Osmium Geochronology of Phosphoria Oils, Big Horn Basin, Wyoming

9:45 Break

10:30 K. Peters, S. Ramos, L. B. Magoon, P. Lillis, J. Zumberge: San Joaquin Basin Petroleum Systems: New Evidence for Multiple Kreyenhagen and Monterey Source-Rock Organofacies

10:50 A. R. Mora, B. K. Horton, A. Reyes-Harker, D. Garcia, V. Blanco, G. Bayona, L. E. Rojas, C. Lopez, N. Sanchez, J. Rubiano, M. Parra, R. A. Ketcham, E. Teson: Cenozoic Inversion Patterns in the Eastern Cordillera of Colombia: Implications for Petroleum Systems

11:10 X. Guo, S. He, K. Liu*: Oil Generation as the Dominant Overpressure Mechanism in the Dongying Depression, Bohai Bay Basin, China

11:30 A. V. Milkov: Worldwide Occurrences and Significance of Secondary Microbial Methane Formed During Petroleum Biodegradation

Theme II: Source-to-Sink Sediment Dispersal, Modern and Ancient I (SEPM)

Room 338/339

Co-Chairs: O. J. Martinsen, B. Sheets and C. Nittrouer

8:00 Introductory Remarks

8:05 T. Sømme, W. Helland-Hansen*, O. J. Martinsen: Partitioning and Preservation of Sediments over Multiple Time-Scales

8:25 J. A. Covault, G. E. Hilley, B. W. Romans, S. A. Graham, A. Fildani: Steady Transfer of Sediment from Drainage Basins to the Deep Ocean over Thousands of Years of Climate Change

8:45 P. J. Markwick, M. C. Raddadi, R. G. Bailiff, K. E. Benny, E. V. Edgecombe, A. M. Galsworthy, M. Harland, L. K. Raynham, D. A. Rowland, S. J. Tomlinson, N. E. Wrobel: The Evolution of Global Source-to-Sink Relationships During the Cretaceous and Tertiary Using Stage Level Palaeogeographies and PaleoDEMs

9:05 K. Xu, C. K. Harris, R. Hetland, J. Kaihatu, N. Walker, R. Bellotte: Dispersal of Mississippi and Atchafalaya Sediment on the Texas-Louisiana Shelf: Numerical Modeling Results

9:25 K. G. Rogers, S. L. Goodbred: Sedimentation Patterns and Transport Pathways Linking River Mouth to Remote Depocenters in the Ganges-Brahmaputra Delta, Bangladesh

9:45 Break

10:30 A. W. Droxler, J. Francis, S. Jorry, G. Mallarino, E. Tcherepanov, B. Carson: Sea Level Induced Carbonate/Siliciclastic Switch Along the Gulf of Papua Shelf Edge: Last Glacial Cycle (150 ky) and Plio-Pleistocene (3.5 My) Records

10:50 G. Lericolais, M. L. Sweet*, M. Bez, V. Abreu, T. Marsset, G. Jouet, L. Droz, G. Calves, S. Charrier, E. Thereau, E. Marches: The Golo System of Eastern Corsica: A Quaternary Source-to-Sink-System

11:10 G. Hampson: Sediment Dispersal Across Late Cretaceous Shelf, Western Interior Seaway, Northern Utah and Colorado, USA

11:30 T. O. Sømme: Source-to-Sink in Rift Basins — Predicting Reservoir Distribution in Ancient, Subsurface Systems

Theme VIII: Exploration and Production of Shale Gas Resources (AAPG/EMD)

Room 343/344/345

Co-Chairs: W. Dow and B. Cardott

8:00 Introductory Remarks

8:05 L. M. Larsen: Beyond North America: A Brief Survey of International Gas Shale Activity

8:25 D. I. Close, F. Horn, D. Cho, G. Cameron, M. Malapad: An Integrated Workflow for Shale Gas in the Western Canadian Sedimentary Basin: Surface Seismic to Stimulation

8:45 J. Sliwinski, J. Harrington, M. Power, P. Hughes, B. Yeung: A High-Definition Mineralogical Examination of Potential Gas Shales

9:05 S. Schamel, J. Quick: Manning Canyon Shale: Utah's Newest Shale Gas Resource

9:25 N. Fishman, G. S. Ellis, S. T. Paxton, M. M. Abbott, A. R. Boehlke: From Radiolarian Ooze to Reservoir Rocks—Microporosity in Chert Beds in the Upper Devonian-Lower Mississippian Woodford Shale in Oklahoma and Implications for Gas Storage

9:45 Break

10:30 I. Novosel, K. Manzano-Kareah, A. S. Kornacki: Characterization of Source Rocks in the Greater Sabine Bossier and Haynesville Formations, Northern Louisiana USA

10:50 A. S. Kornacki: Composition of Produced Gas and Mud Gas Samples from Greater Sabine Bossier and Haynesville Gas-Shale Reservoirs, Northern Louisiana USA

11:10 J. Pashin: Devonian Shale Plays in the Black Warrior Basin and Appalachian Thrust Belt of Alabama

11:30 L. B. Smith, J. Leone: Integrated Characterization of Utica and Marcellus Black Shale Gas Plays, New York State

Theme VII: Paleontology in the 21st Century: A Symposium Dedicated to Ed Picou (SEPM/AAPG)

Room 353/354/355

Co-Chairs: D. Griffith, M. B. Farley and R. Rosen

8:00 Introductory Remarks

8:05 H. Brinkhuis: From Greenhouse to Icehouse; to There and Back Again — Results from Arctic Ocean Drilling

8:25 L. Zarra: Utility of Sparse Paleontologic Data in Addressing Stratigraphic Problems: Onshore and Deep-Water Wilcox Trend, Gulf of Mexico

8:45 R. A. Denne: Microfossil Taxonomy in the 21st Century

9:05 R. L. Dickey, T. Yancey: Palynology Across a Sequence Boundary in the Wilcox Group, Central Texas

9:25 S. Rigaud, J. Chablais, R. Martini, R. Rettori, G. D. Stanley: Upper Triassic Foraminifers: New Data on Dispersal, Paleogeography and Stratigraphic Global Correlations

9:45 Break

10:30 P. Grunert, W. E. Piller, M. Harzhauser, H. Sperl, R. Hinsch: High-Resolution Foraminiferal Micropaleontology in the Oligo-Miocene of the North Alpine Foreland Basin

10:50 D. Peryt, T. M. Peryt*: Foraminiferal Record of the Onset of the Middle Miocene Badenian Salinity Crisis in Central Paratethys

11:10 P. Buzas-Stephens, A. R. Simms, M. A. Buzas: Evidence of Environmental Change from Foraminiferal and Sedimentological Correlation in an Incised Valley: Baffin Bay, Texas

11:30 M. B. Farley: Integration of Paleontology Key to Building Impact

Theme II: Submarine Mass Movements and Their Consequences for Deepwater Exploration and Production (SEPM)

Room 356/357

Co-Chairs: V. Kertznus and L. G. Moscardelli

8:00 Introductory Remarks

8:05 J. Cartwright: Topseal Integrity of Mass Transport Deposits

8:25 D. A. Armitage, C. A. Jackson: Role of Mass-Transport Deposit (MTD) Related Topography on Turbidite Deposition and Reservoir Architecture: A Comparative Study of the Tres Pasos Formation (Cretaceous), Southern Chile and Temburong Formation (Miocene), NW Borneo

8:45 M. Grecula, S. Kattah, P. Shiner: Role of Mass Transport Deposits in the Creation and Fill of Tectonically Active Slope Accommodation, Deepwater Sabah, NW Borneo

9:05 J. T. Eggenhuisen, W. D. McCaffrey, P. D. Houghton, R. Butler, I. Moore, A. Jarvie, W. G. Hakes: Impact of Large-Scale Slope Remobilisation on Sandbody Architecture: The Deep-Water Lower Cretaceous Britannia Sandstone Formation, UK North Sea.

9:25 F. Gamberi, M. Rovere, M. Marani: Modern Examples of Mass-Transport Complexes, Debrite and Turbidite Associations: Geometry, Stratigraphic Relationships and Implications for Hydrocarbon Trap Development

9:45 Break

10:30 H. Linzer, R. F. Sachsenhofer: Submarine Large Scale Mass Movements in the Deepwater Foreland Basin of the Alps — Implications to Hydrocarbon Generation and Distribution of Source and Reservoir Rocks

10:50 O. Bakare: Importance of Mass Transport Deposits to Deepwater Turbidite Reservoirs, Niger Delta, West Africa

11:10 G. Shanmugam: Sandy-Mass-Transport Deposits (SMTD) in Deep-Water Environments: Recognition, Geometry, and Reservoir Quality

11:30 K. L. Maier, S. A. Graham, P. R. King, G. H. Browne, M. J. Arnot: Influences on Deep-Water Slope Channel Formation and Fill: Examples from the Taranaki Basin, New Zealand



TECHNICAL PROGRAM *Denotes speaker other than first author

Wednesday Afternoon Oral Sessions

WEDNESDAY AFTERNOON ORALS

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme VII: Understanding the Gulf of Mexico: Depositional Systems, Play Concepts and Structure (AAPG)

Room 238/239

Co-Chairs: J. C. Fiduk and M. G. Rowan

1:15 **Introductory Remarks**

1:20 **P. Weimer:** Regional Controls on the Development of Neogene Deepwater Fields in Mississippi Canyon, Atwater Valley, Desoto Canyon, and Lloyd Ridge Areas, Northern Deep Gulf of Mexico

1:40 **C. H. Nelson, J. Damuth, H. Olson, C. Escutia:** Factors Controlling Modern Abyssal Fan Architecture in the Gulf of Mexico and Implications for Paleogene to Miocene Petroleum Plays in the Gulf of Mexico

2:00 **M. G. Moore:** Exploration, Appraisal, and Development of Turbidite Reservoirs in the Western Atwater Foldbelt, Deep Water Gulf of Mexico

2:20 **C. L. Blankenship, D. I. Rainey, D. H. Knight, D. A. Kercho, R. H. Benthien, K. Hargrove, R. T. Klein:** Will K: Another Step in the Evolution of the U.S. Gulf of Mexico Deep Gas Play

2:40 **M. R. Hudec, F. J. Peel:** Influence of Basement Structure on Evolution of the Deepwater Gulf of Mexico

3:00 **Break**

3:25 **S. W. Krueger:** Dynamics of Tear Faults in the Salt-Detached Systems of the Gulf of Mexico

3:45 **S. Holdaway:** Structural History of Keathley Canyon Type Salt Keels, North-Central Deepwater Gulf of Mexico

4:05 **T. S. Buddin:** A 'Sea-Floor to Basement' Kinematic Model for Green Canyon and Western Atwater Valley, Central Gulf of Mexico

4:25 **M. G. Rowan, R. Hunsdale:** Origin and Evolution of Bowl Welds in the Central Louisiana Deepwater, Northern Gulf of Mexico

4:45 **"Best of EAGE"**

Theme XI: Global Climate Change Forum Climate Change, Sea Level Change, and Storm Event Impact on Sedimentary Environments and Petroleum Industry Infrastructure, U.S. Gulf of Mexico (AAPG/DEG)

Room 243/244/245

Co-Chairs: J. Levine and J. Kupez

1:15 **Introductory Remarks**

1:20 **To Be Determined**

1:50 **A. Sallenger:** An Overview of Extreme Storms in the U.S. Gulf of Mexico, and Their Coastal Impact

2:20 **M. Blum:** Impact of Sea-Level Change and Regional Subsidence on Coastal Evolution: Prospects for the Mississippi Delta

3:00 **Break**

3:30 **J. Anderson:** Response of Gulf Coast Bays and Coastal Barriers to Changes in the Rate of Sea-Level Rise and Sediment Supply

4:00 **C. Williams:** Petroleum Industry Response to Storms and Sea Level Changes

4:30 **Q&A Forum Full Panel**

Theme I: Reservoir Modeling (AAPG/SEPM)

Room 252/253/254

Co-Chairs: H. Alqassab and E. F. Ellis

1:15 **Introductory Remarks**

1:20 **M. D. Hogg, G. Shook, M. Pircz:** Selection of Geological Models for Uncertainty Assessment with a Novel Streamline Approach

1:40 **C. P. North, S. K. Davidson:** Shaping the Future of Fluvial Reservoir Modeling

2:00 **C. Toscano, F. Cappanera, A. Francesconi:** Modeling the Uncertainties of Naturally Fractured Reservoirs

2:20 **T. D. Jobe, A. E. Heris:** Static Reservoir Modeling in an Incised Valley Fill: A Case Study in Optimization from Postle Field, Texas County, Oklahoma

2:40 **V. C. Vahrenkamp, A. Creusen:** The Role of Sedimentary Fabric for Rock Typing and Model Upscaling in Carbonate Reservoirs

Theme I: Reservoir Characterization (AAPG/SEPM)

Room 252/253/254

Co-Chairs: R. Kocken and D. Tatum

3:20 **Introductory Remarks**

3:25 **C. A. Santacruz, R. Slatt, Y. Akkutlu, K. J. Marfurt:** 3-D Geological Modeling and 'Reservoir' Flow Simulation of a Leveed-Channel Outcrop with Application to Deepwater Leveed-Channel Reservoirs

3:45 **L. W. Bellman:** Integrated 3-D Reservoir Characterization for Oil Sands Evaluation, Development and Monitoring

4:05 **E. E. Valencia, M. C. Herrera:** High Resolution Stratigraphic Controls on Rock Properties Distribution and Fluid-Flow Pathways in the Upper Caballos Formation, San Francisco Field, Upper Magdalena Valley, Colombia

4:25 **B. Bennett, D. Jiang, S. R. Larter:** Exploiting Natural Variations in Fluid Properties to Solve Production Problems in Heavy Oil Reservoirs- Production Allocation, Viscosity Profiling and Barrier Detection

4:45 **"Best of EAGE"**

Theme I: Innovative Interpretation and Use of Seismic Data (AAPG)

Room 255/256/257

Co-Chairs: T. Maciejewski and D. Smith

1:15 **Introductory Remarks**

1:20 **Y. V. Ganshin, S. A. Quillinan, R. C. Surdam:** Mapping Almond Reservoir Rocks at Stagecoach Draw Field, Southwestern Wyoming: Application of Spectral Decomposition Technique

1:40 **R. M. Gruenwald, J. Buitrago, J. Dessay, A. Huffman, C. Moreno, J. Gonzalez Munoz:** Pore Pressure Prediction Based on High Resolution Velocity Inversion in Carbonate Rocks, Offshore Sirte Basin - Libya

2:00 **M. Makhous, P. Rode:** Passive Seismic Monitoring Technologies: A Promising Innovation Tool for Detection of Hydrocarbon Accumulations and Reservoir Monitoring

2:20 **O. C. Ogiesoba, U. Hammes:** Understanding Lithologic Significance of Amplitude Envelope and Acoustic Impedance Within Oligocene and Miocene Strata, South Texas Gulf Coast

2:40 **S. Chopra, K. J. Marfurt:** Detecting Stratigraphic Features via Cross-Plotting of Seismic Discontinuity Attributes and Their Volume Visualization

3:00 **Break**

3:25 **F. F. Snyder, G. Jamieson, N. Biles:** High Velocity Zones in Deep Mini-Basin Miocene Sediments, Eugene Island, Northern Gulf of Mexico

3:45 **X. Zhang, C. Lin, T. Zhang:** Seismic Sedimentology Interpretation with Comprehensive Information in Shallow Sea Area, Gentle Slope Belt of Chengning Uplift, China

4:05 **I. Schmidt, M. Docherty, S. Lacaze, F. Pauget:** Improved 3-D Seismic Interpretation and Reservoir Model Construction Using PaleoScan Technology

4:25 **S. Sarkar, K. J. Marfurt, R. Slatt:** Effect of Volcanic Bodies on Hydrocarbon Reservoirs in the North-Eastern Part of Chicotepec Foredeep, Mexico

4:45 **"Best of EAGE"**

Theme III: Methodology & Techniques (AAPG)

Room 338/339

Co-Chairs: G. McMaster and R. Riese

1:15 **Introductory Remarks**

1:20 **G. Martinelli, M. Drange Forland, J. Eidsvik, R. Hauge:** Modeling Prospect Dependencies with Bayesian Networks

1:40 **J. I. Howell:** Precision...Decisions and the Workings in Between the Impact of Psychology and Context on Investment Decisions

2:00 **Z. Shang, D. Alfred*, D. Caldwell:** Reservoir Average Porosity Uncertainty Assessment with Limited Well Data

2:20 **R. Otis, P. Haryott:** Calibration of Uncertainty (P10/P90) in Exploration Prospects

2:40 **T. C. Coburn, E. D. Attanasi, P. A. Freeman:** Empirical Evaluation of Procedures to Assess Unconventional Natural Gas Resources when Spatial Anomalies are Present

Theme II: Source-to-Sink Sediment Dispersal Modern and Ancient (SEPM)

Room 338/339

Co-Chairs: O. J. Martinsen, B. Sheets and C. Nittrouer

3:20 **Introductory Remarks**

3:25 **H. M. Wadman, J. E. McNinch:** Processes Effecting Sediment Transfer Across the Land-Sea Interface and Resulting Shelf Stratigraphy

3:45 **A. J. Bever, C. K. Harris, J. Swenson:** Dispersal Basin Geometry Influences Sediment Deposition, Shoreline Progradation Rates, and Grain Size Segregation: A Case Study of Poverty Bay, New Zealand

4:05 **L. Strachan, W. D. McCaffrey, B. Kneller:** High-Frequency Climatic Cyclicity Expressed in Deep-Marine Turbidites: The Santa Barbara Basin, California

4:25 **E. Septama, S. J. Bentley:** Late Quaternary Deepwater Fan Depositional Cycles in the Gulf of Papua: Linking Sources, Dynamic Sedimentation Processes, and Depositional Architecture

4:45 **"Best of EAGE"**

Theme VIII: Genesis of Shale Gas — Physicochemical and Geochemical Constraints Affecting Methane Adsorption and Desorption (EMD/AAPG)

Room 343/344/345

Co-Chairs: D. M. Jarvie and P. K. Mukhopadhyay

1:15 **Introductory Remarks**

1:20 **D. M. Jarvie, F. Behar:** Decomposition of Organic Matter and Impact on Shale Resource Play Assessments

1:40 **B. Horsfield, R. Littke, U. Mann, S. Bernard, T. T. Anh Vu, R. di Primio, H. Schulz:** Shale Gas in the Posidonia Shale, Hills Area, Germany

2:00 **B. M. Krooss, A. Amann, Y. Gensterblum, F. Han, R. Littke:** Gas Transport and Sorption Processes in Coals and Shales: New Insights and Concepts from Laboratory Experiments

2:20 **T. Bowman:** Direct Method for Determining Organic Shale Potential from Porosity and Resistivity Logs to Identify Possible Resource Plays

2:40 **B. Faraj:** Key Attributes of Canadian and U.S. Productive Shales: Scale and Variability

3:00 **Break**

3:25 **B. Beaudoin, J. Shaw:** Characterization of the Horn River Basin Thermogenic Shale Gas Play in Northeastern British Columbia

3:45 **B. Law, T. Ahlbrandt, D. Hoyer:** Source and Reservoir Rock Attributes of Neoproterozoic Shale, Beetaloo Basin, Northern Territory, Australia

4:05 **F. Mosca, B. Wright, S. Campbell, D. Curry:** 3-D Petroleum Systems Modeling Applied to Unconventional Shale Gas Play: Prediction of Sweet Spots Based on Areal and Depth Distribution of Sorption Capacity in Shale Gas

4:25 **W. Marble:** The Geologist and the Engineer — In Need of Each Other More Than Ever

4:45 **"Best of EAGE"**



TECHNICAL PROGRAM *Denotes speaker other than first author

Theme V: Interaction of Hydraulic Fracture Treatments with Natural Fractures in Tight Gas Reservoirs (AAPG)

Room 353/354/355

Co-Chairs: J. F. Gale, M. Thiercelin and J. Le Calvez

1:15 Introductory Remarks

1:20 M. Thiercelin, D. Chuprakov, E. Siebrits, R. Jeffrey, X. Zhang: Hydraulic Fracture Propagation in Fractured Media

1:40 J. Olson, A. Dahi Taleghani: The Influence of Natural Fractures on Hydraulic Fracture Propagation

2:00 A. Ghassemi: Numerical Simulation of Hydraulic Fracture Propagation in the Vicinity of a Natural Fracture

2:20 W. Xu, M. Thiercelin, J. Le Calvez: Analysis of Hydraulic Fracturing Stimulation of a Lateral Well in Barnett Shale

2:40 J. Stokes, H. Moros, J. H. Le Calvez, K. Brosnan, J. Greer: Real-Time Borehole-Based Microseismic Monitoring of Hydraulic Fracturing Treatments in Adjacent Horizontal Wells in the Barnett Shale: Example of a Faulted Reservoir

Theme V: Fractured Reservoirs: From Fundamental Processes to Technological Advancements (AAPG)

Room 353/354/355

Co-Chairs: P. Eichhubl, C. Zahm and C. Fiduk

3:20 Introductory Remarks

3:25 V. Chavez Valois, R. Castellanos, A. Marin, N. Olaez,

M. Hernandez, L. Hernandez, C. Prieto Ubaldo: Fracture Systems Characterization: From the Regional Frame to the Reservoir, Sureste Basin, Chiapas-Tabasco, Mexico

3:45 C. Zahm, C. Kerans: Small Faults, Big Damage Zones — An Example of Fault-Related Fractures and Dissolution Collapse in a Ramp Crest Carbonate System, Lower Pecos River Canyon, Texas

4:05 D. W. Hunt, P. Gillsepie, J. Thurmond, G. Casini, E. Monsen: Fractured Carbonate Reservoirs Part 1: Development and Testing of New Automated Methods for the Capture of Quantitative Fracture Data from Outcrop Analogues

4:25 E. Flodin, P. Balossino, W. Narr: Well Log and Production Based Analysis of Fractures in Karachaganak Field, Northwestern Kazakhstan

4:45 "Best of EAGE"

Theme VI: Salt Sediment Interaction (AAPG)

Room 356/357

Co-Chairs: K. Giles and C. Yeilding

1:15 Introductory Remarks

1:20 R. K. Davies, W. Bradbury, R. Fletcher, G. Lewis, M. Welch, R. Knipe: Outcrop Observations and Analytical Models of Deformation Styles and Controls at Salt-Sediment Margins

1:40 B. Trudgill: Development of Progradational Sequences on the Flank of an Evolving Salt Wall: Controls on Salt-Sediment Interaction, Salt Valley-Fisher Valley Salt Wall, SE Utah

2:00 K. Giles, M. G. Rowan, T. F. Lawton: Concepts in Halokinetic Sequence Development

2:20 M. G. Rowan, K. Giles, T. F. Lawton, T. E. Hearon IV, T. Hannah: Salt-Sediment Interaction During Advance of Allochthonous Salt

2:40 S. S. Shaker: Dirty Versus Clean Salt: Their Impact on the Subsalt Wilcox Deep Water Exploration Plays

3:00 Break

3:25 R. Gawthorpe, A. P. Oluboyo, F. Hadler-Jacobsen: The Variable Role of Salt Tectonics on Turbidite Channels Along Continental Margins

3:45 J. L. Morgan, L. Wood: Seismic Geomorphology of Pliocene-Age Leveed Channels in the Southern Atwater Fold Belt and Implications for Timing of Salt Emplacement.

4:05 K. L. Kendell, M. E. Deptuck: Salt Evacuation History and Depositional Corridors in the Annapolis and Crimson Region — Do These Wells Really Provide an Accurate Test of Sand Presence in Nova Scotia's Deepwater?

4:25 S. Blanke, L. Meibos, P. Kline: A Seismically Defined Ancient Anoxic Intraslope Basin in Hardin County, Texas—Potential Source and Seismic Pitfall

4:45 "Best of EAGE"

Wednesday Morning Poster Sessions

Presenters in their Booths (10:00 a.m. – 12:00 p.m.)

Theme I: Technology and Techniques

Theme II: Sedimentation and Stratigraphy

Theme III: Resource Assessment

Theme IV: Evolving Plays and Significant Discoveries

Theme V: Structural Geology: Styles and Processes

Theme VI: Tectonics and Sedimentation

Theme VII: The Gulf of Mexico: Regional to Local, Mesozoic to Recent

Theme VIII: Unconventional Resources

Theme IX: Expanded Applications of Geosciences

Theme X: U.S. Energy

Theme XI: Global Climate Change

Theme XII: Student Poster Sessions

Theme XII: Additional Student Posters (AAPG)

Exhibition Hall 8:30 a.m. – 12:00 p.m.

Chair: D. Balcer

- A. P. Oluboyo, R. Gawthorpe, F. Hadler-Jacobsen:** Tectonic Controls on Cenozoic Submarine Channel Evolution on the West African Margin
- R. Barnes, K. McClay:** Fracture Systems in Fault Related Folds, Zagros Fold Belt, Southern Iran
- C. C. Velez, P. P. McLaughlin, S. McGeary, S. L. Sargent:** Seismic Imaging of a Cretaceous Fluvial System
- C. F. Cassle, S. Egenhoff:** The Upwelling Myth and Phosphate Accumulation in a Semi-enclosed Basin: Counterarguments from the Phosphoria Formation, Wyoming and Idaho, USA
- C. Serie, M. Huuse:** Seismic Imaging of Fluid Migration in Petroleum Basins
- J. Salazar, R. Gani, N. Gani, S. O'Brien:** Tectono-Sedimentary Evolution of the Late Cenozoic Slope Fan Complex in Garden Banks Area, Offshore Louisiana
- J. G. Ridgway:** Upper Jurassic Smackover Formation Facies Characterization at Little Cedar Creek Field, Conecuh County, Alabama
- J. Bagley, B. Henk, J. Holbrook:** Sedimentology, Ichnology, Depositional Environment Interpretation, and Reservoir Characterization of the Cotton Valley Sandstone in the Amoco Grace Lowry #1, Harrison County, Texas
- A. E. Bande, B. K. Horton, A. Mora, J. Ramirez:** Relative Timing of Deformation Along the Western Margin of the Llanos Foreland Basin, Colombian Andes: Evidence from Growth Strata and Depositional Systems
- C. M. Sanchez, R. J. Steel, C. S. Fulthorpe, J. A. Austin:** Miocene Shelf-Edge Delta Behaviour and Influence on Deepwater Slope Morphology, Northwest Shelf of Australia
- M. A. Islam, P. Skalle, N. H. Mondol:** In Situ Stress Pattern and Its Impact on Stable Drilling Operation — A Sensitivity Study

- C. D. Althoff:** Depositional Megacycles in the Woodford Trough of Central Oklahoma

Theme IX: Astrogeology — Impact of Collisions on Earth's History and the Occurrence of Hydrocarbon and Mineral Resources (EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: W. A. Ambrose and T. Klekamp

- K. Singh, L. Wood:** The Impact of Astroblems on Earth's History and Its Implications for Hydrocarbon Production
- S. Evans, D. P. Dennie, S. Dulin, R. Elmore:** The Alamo Breccia as a Conduit for Remagnetizing Fluids: Testing the Hypothesis
- A. H. Johnson, M. D. Max, S. M. Clifford:** Petroleum System Analysis of Mars and Beyond
- W. A. Ambrose:** A Survey of Impact Craters in the Inner Solar System: Perspectives from Earth

Theme VI: Salt Sediment Interaction (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: K. Giles and C. Yeilding

- C. P. Platon, A. Weislogel:** Influence of La Popa Salt Wall on the Depositional Patterns and Stratal Architecture of the Shallow-Marine Siliciclastic Deposits of the Viento Formation, La Popa Basin, Mexico
- J. Andrie, K. Giles:** Halokinetic Sequence Stratigraphy and Structural Geometry of the Eocene Fluvial Carroza Formation Along the La Popa Salt Weld, La Popa Basin, Mexico
- P. R. Graham, B. Trudgill, J. L. Aschoff:** Evolution of the Onion Creek Salt Diapir and Related Salt-Withdrawal Minibasin During the Plio-Pleistocene: Analysis of Growth Strata and Progressive Unconformities, Grand County, Utah
- R. Kernen, K. Giles, T. F. Lawton, T. E. Hearon IV, M. G. Rowan:** Characteristics of a Tapered Composite Halokinetic Sequence Within the Wonoka Formation Adjacent to the Ramping Patawarta Salt Sheet, Central Flinders Ranges, South Australia

- T. E. Hearon IV, M. G. Rowan, R. A. Kernen, B. Trudgill:** Lateral Salt Emplacement at the Christmas Tree Diapir, Pinda Springs, South Australia

- C. He, L. Tang, P. Wang, Y. Yang:** Salt Deformation and Salt-Sediment Interaction in Forelimb of the Forbulge, Kuqa Forland Basin Systems in Tarim
- W. Xu:** Seafloor Brine Pools/Lakes: Roles of Gas Expulsion, Gas Hydrate and Buried Salt Mass

Theme VIII: Genesis of Shale Gas — Physicochemical and Geochemical Constraints Affecting Methan Adsorption and Desorption (EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: K. Giles, P. K. Mukhopadhyay, D. M. Jarvie and C. Yeilding

- P. K. Mukhopadhyay:** Physicochemical Constraints of Shale Gas Potential Within Mississippian Horton Shale Sequences of New Brunswick and Nova Scotia, Eastern Canada: Dependency of Liquid and Gaseous Adsorptions
- G. E. Michael, Z. He:** Shale Gas Play Evaluation Using Basin Modeling
- M. A. Vasilache:** Fast and Economic Gas Isotherm Measurements Using Small Shale Samples
- M. D. Lewan, M. J. Kotarba:** Upper Thermal Maturity Limit for Gas Generation from Humic Coals as Determined by Hydrous Pyrolysis
- G. R. Chalmers, M. R. Bustin:** The Effects and Distribution of Moisture in Gas Shale Reservoir Systems
- M. C. Dix, D. Spain, C. Walling, J. Sano, N. Casarta, A. Richardson:** Stratigraphy and Depositional Dynamics of the Haynesville-Bossier Sequence: Inferences from Whole-Rock Elemental Data
- A. Chauouche:** Are Gas Shale and Tight Sands Really Unconventional from a Petroleum Systems View Point?
- D. M. Jarvie:** Worldwide Shale Resource Plays and Potential



TECHNICAL PROGRAM *Denotes speaker other than first author

Theme I: Reservoir Modeling (AAPG/SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: H. Alqassab and E. F. Ellis

- **M. D. Jackson, R. P. Sech, G. Hampson:** Surface-Based Modeling to Capture High-Resolution Facies Architecture and Its Impact on Hydrocarbon Volumes and Recovery
- **H. Li, T. Garner, C. Genty, K. Ghayour, T. Sun:** Hierarchical Reservoir Modeling Using Process-Based Models as Digital Analogs
- **J. A. Bellian, C. Kerans:** Laser-Mapping and 3-D Reconstruction of the Lower Ordovician El Paso Group Collapse Breccias, Franklin Mountains, Texas
- **S. R. Freeman, S. D. Harris, J. M. Campbell*, K. Wood:** Integrating Structural Uncertainty into the Reservoir Simulation Process
- **M. E. Donselaar, D. T. Gilding, R. M. Groenenberg, C. J. Wiggers, K. A. Wolf:** Targeting Reservoir Sandstone for Deep Geothermal Energy Production: Challenges and Heterogeneous Reservoir Model Construction
- **C. T. Dang, N. Nguyen, W. Bae, T. Phung:** A Successful Story of Integrating Geological Characterization, Reservoir Simulation, Assisted History Matching & EOR in Extremely Heterogeneous Reservoir
- **Y. Yamada, K. Baba, M. Yagi, M. Higashi, H. Takedomi, A. Kato, K. Okada:** Facies Architecture of Subaqueous Felsic Lava Dome — Building of Training Image for Multi-point Geostatistical Reservoir Modeling
- **G. Chen, J. Pan, W. Pan:** Geological Model of Carbonate Weathering Crust Karst Reservoir

Theme I: Reservoir Characterization (AAPG/SEPM)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: R. Kocken and D. Tatum

- **B. Seyler, J. Grube, B. G. Huff, C. S. Blakley, P. Johaneck:** Reservoir Characterization for Enhanced Oil Recovery in Middle Mississippian Cypress Sandstones at Lawrence Field, Illinois
- **F. H. Nader, J. Daniel, O. Lerat, B. Doligez:** Implications of Conceptual and Numerical Modeling of Dolomitization for Reservoir Characterization
- **A. Seyedolali, A. Dombrowski, S. Crouch:** Modification of Seal Capacity by Diagenesis at Peace River, Alberta, Canada — An Integrated Study on Subsurface Reservoir and Seal Quality Evaluation for Acid Gas Injection
- **C. A. Polo, G. M. Baniak, M. K. Gingras:** Biogenic Influences on Resource Quality Within the Upper Cretaceous Nise Formation, More Basin, Norwegian Sea
- **D. J. Hills, D. C. Kopaska-Merkel, J. C. Pashin:** Depositional and Diagenetic Factors Influencing CO₂-Enhanced Oil Recovery in Estuarine Sandstone Facies of the Donovan Sand (Lower Cretaceous), Citronelle Field, Southwest Alabama

- **L. F. De Ros, K. Goldberg, N. Dani, G. Armelenti, A. S. Carvalho, E. E. Zambonato:** Diagenetic Processes in Clastic Pre-salt Reservoirs, Onshore Espírito Santo Basin, Eastern Brazil
- **A. C. Hewlett, M. Pranter, S. Cumella:** Stratigraphic Architecture, Reservoir Quality, and Sandstone-Body Connectivity of the Mesaverde Group, Central Mamm Creek Field, Piceance Basin, Colorado
- **S. Carney, P. Millitz, S. Chai:** Low Resistivity, Low Contrast Pay Definition Using Multi-Resolution Graphical Clustering Techniques on the Complex Miocene Reservoirs of the North Malay Basin
- **A. L. Maldonado, W. J. Clark:** Characterization of Sand Injectites in the Mississippian-Devonian Lower Bakken Shale, Williston Basin, North Dakota
- **M. W. French, R. H. Worden, E. Mariani, R. R. Mueller, H. von Eynatten, C. Fischer:** Low-Temperature Porosity Preserving Microquartz from Upper Cretaceous Sandstones of the Subhercynian Basin (Germany)
- **T. Borgohain, P. N. Baruah, P. K. Kakoty:** Reservoir Fairway Analysis of a Barail Interval of Deohal Area in Upper Assam Basin Using High Resolution Sequence Stratigraphy and Seismic Attributes
- **D. A. Wytovich, D. R. Watts, E. Hauser, G. Watts, D. Dominic, K. Crampton:** Reservoir Characterization of the North Canton Gas Field “Clinton” Interval Using Well Log, Production, Hydraulic-Fracture, and Seismic Data
- **G. J. Dean, D. A. Spratt, C. M. Henderson:** Fracture Analysis and Diagenetic Characterization of an Upper Paleozoic Gas Play, East-Central British Columbia, Rocky Mountains, Canada
- **M. M. Shah, F. H. Nader, R. Swennen, J. Dewit, D. Garcia:** Fracture-Controlled High Temperature Dolomites in the Cretaceous Ramales Formation (Cantabrian Mountain Chain, NW Spain): Implications for Reservoir Characterization
- **A. Badi, O. Ali, A. Farwa, O. M. Abdullatif:** Reservoir Modeling of Yabus and Samaa Formations (Tertiary), Agordeed Field, Melut Rift Basin, Sudan
- **S. Sathar, R. H. Worden, D. R. Faulkner, C. Smalley:** An Analogue Approach to Understand the Effect of Oil Emplacement on Pressure Solution in Reservoir Rocks
- **S. Huang, T. Zhang, D. Wang, G. Liang, Z. Hou, M. Zhao, J. Liu, Z. Jiang:** Discussion of Petrotectonic Facies and Their Meaning for Reservoir Study
- **I. Panarin:** Peculiarities of the Structure of the Upper and Middle Jurassic Formations — Reservoirs of the Zapolyarnoye, Yamburgskoe and Tazovskoe Fields

Theme V: Fractured Reservoirs: From Fundamental Processes to Technological Advancements (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: C. Fiduk, C. Zahm and P. Eichhubl

- **D. Moos, C. A. Barton, D. W. Montgomery, P. W. Whiteley:** Predicting Injection Pressure for Natural Fracture Stimulation — A Case Study

- **B. Tilley, S. McLellan, S. Hiebert, B. Quartero, M. Qayyum, K. Muehlenbachs:** Isotopic Evidence for Tectonically Induced Mixing of Deep Shale Gases in Foothills Reservoirs of the Western Canada Sedimentary Basin
- **P. Marchesini, M. P. Grasmueck, G. P. Eberli, M. Zeller, R. Van Dam:** Tracking Fluid Flow with 4-D Ground Penetrating Radar (GPR) in a Fractured Carbonate Reservoir
- **A. R. Mora, W. Robles, J. Tamara, A. Ramirez, E. Zambrano, G. Meza, A. Ortiz, A. Kammer:** Integrated Fracture Analysis in Complex Areas. Colombian Eastern Foothills
- **G. Casini, S. Homke, J. Embry, I. Romaine, N. Fernández, I. R. Sharp, P. Gillseppe, D. W. Hunt*:** Fractured Carbonate Reservoirs Part 2: High-Resolution Mechanical Stratigraphy Derived from Kilometre-Scale Outcrop Analogues
- **H. Boro, G. Bertotti, S. M. Luthi:** 3-D Fracture Patterns in Outcropping Reservoir-Scale Anticline: New Acquisition Methods and Results from the Tata Anticline (Morocco)
- **S. Sonnenberg, S. K. Appleby, J. Sarg:** Quantitative Mineralogy and Microfractures in the Middle Bakken Formation, Williston Basin, North Dakota
- **M. Frass, N. Harvey:** Fracture Evaluation from Image Logs, A New Development: Image Petrophysics
- **C. Prieto Ubaldo, F. Monroy Santiago, P. Flores Avila:** Structural Diagenesis: Application in Fractured Reservoirs Characterization. Examples from Southeastern México
- **G. Strijker, S. M. Luthi, G. Bertotti, J. Klaver:** Evolution of a Multi-scale Fracture System as a Result of Stress Re-orientation, Cambrian Umm Ishrin Formation, Jordan
- **F. A. Nenna, X. Zhou, A. Aydin:** Field Investigation and Numerical Modeling of Pressure Solution Seam Growth and Evolution Observed in Clastic Rocks, County Cork, Ireland
- **S. E. Laubach, M. A. Ellis, P. Hargrove, P. Eichhubl, A. Fall:** Contrasts in Fracture Array Intensity, Connectivity and Porosity Associated with Faults in Tight Fluvial and Marine Sandstones
- **R. N. McGinnis, G. R. Walter, F. P. Bertetti, M. M. Roberts, D. A. Ferrill, A. P. Morris, K. J. Smart:** Influence of Fault Zone Deformation on the Permeability of the Glen Rose Formation: Hidden Valley Fault Zone, Comal County, Texas
- **J. C. Martin, R. E. Holdsworth, K. McCaffrey, A. Conway, M. Krabendam:** Characterizing Fracture Networks in the Lewisian Gneiss Complex, NW Scotland: Implications for Petroleum Potential in the Clair Field Basement, Faroe-Shetland Basin
- **K. Pomar, G. P. Eberli, M. P. Grasmueck, J. Lamarche, M. Coll:** Integration of 3-D Ground Penetrating Radar and Outcrop Analysis for Characterizing Solution Enhanced Fractures in Cretaceous Carbonates, Cassis, France
- **S. P. Cooper, J. C. Lorenz:** Fracture Patterns Associated with Tightly Folded Laramide Structures: The Example of Beer Mug Anticline, Wyoming

WEDNESDAY MORNING POSTERS

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- **M. A. Pearce, R. Jones*, S. Smith, K. J. McCaffrey:** Relationship Between Folding and Fracturing in Outcrop-Scale Reservoir Analogues
- **S. Wilkins, M. Doe, H. White, R. Cole, R. Stands-Over-Bull:** The Influence of Fluvial Channel Architecture on Joint Characteristics: Examples from Mesaverde Outcrop, Douglas Creek Arch, Colorado

Theme VIII: Exploration for Gas Hydrate Resources (EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: B. Hunter and A. H. Johnson

- **O. Takano, T. Saeki, T. Fujii:** Turbidite Facies Control on the Distribution Patterns of Matrix Pore Filling-Type Gas Hydrates in the Eastern Nankai Trough Area, Central Japan
- **D. Shelander, J. Dai, G. Bunge, T. S. Collett, R. Boswell, E. Jones:** Predictions of Gas Hydrates Using Pre-stack Seismic Data, Deepwater, Gulf of Mexico
- **N. Waldmann, H. Hafliðason, C. Zühlsdorff, B. Hjelstuen:** Dynamic Response of Gas Hydrates to Lithological Changes: Evidence from the Mid-Norwegian Continental Margin
- **J. Tomasini, H. de Santa Ana, A. H. Johnson:** Identification of New Seismic Evidence Regarding Gas Hydrate Occurrence and Gas Migration Pathways Offshore Uruguay
- **N. Hwang, K. Lee, D. Yoo:** Spatial Distribution of Seismic Signatures of Gas and Gas Hydrate in the Ulleung Basin, East Sea, Offshore Korea
- **J. Beheresht, Y. Peng, S. L. Bryant, W. Winters:** Sedimentological Control on Hydrate Saturation Distribution in Arctic Gas-Hydrate-Bearing Deposits
- **D. Feng, H. H. Roberts:** Authigenic Carbonates from MC 118 (Gulf of Mexico) and Their Possible Relation to Gas Hydrate Destabilization
- **B. M. Figueira, J. M. De Silva, W. Clarke:** Delineation of Gas Hydrate Deposits, Block 27, Eastern Offshore, Trinidad
- **C. C. Knapp, J. H. Knapp, A. Addison, L. Macelloni, M. Waddell:** Geophysical Baseline Characterization of Subsurface Gas Hydrates at MC118, Gulf of Mexico
- **C. B. Lutken, L. Macelloni, L. Lapham, S. Caruso, M. Lodi, R. Camilli, V. Asper, A. Diercks, J. H. Knapp, C. Knapp:** Monitoring Seafloor Morpho-Geological Evolution of the MC118 Hydrate/Carbonate Mound via Multiple AUV Missions

Theme V: Continental Breakup Processes and Their Implications for Exploration Models in Rift and Passive Margin Settings (AAPG)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: M. Nemcok and S. T. Sinha

- **G. Elliott:** Influence of Margin Segmentation upon the Breakup of the Hatton Bank Rifted Margin, NE Atlantic
- **J. Skogseid, L. Gernigon, H. C. Bender, M. G. Abdel Salam, A. K. Thurmond, C. Gaina:** Microcontinent Formation in a Mantle Plume and Plate Tectonic Perspective
- **S. Dehler, K. Welford:** Variations in Rifting Style and Structure of the Scotian Margin, Atlantic Canada, from 3-D Gravity Inversion

- **W. Mohriak, A. Duarte:** Breakup Processes in the South Atlantic: An Integrated Approach Based on Geological and Geophysical Interpretation and Tectonic Reconstructions
- **K. B. Trivedi, V. Singh, A. N. Lange, N. Jukuda:** Hydrocarbon Exploration in West Coast of South Africa: An Enigma or a Point to Cogitate

Theme IX: CO₂ Sequestration: Strategies and Technologies for Storage and Monitoring (DEG/EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: G. C. Blount, T. Meckel and M. K. Harris

- **K. Chang, T. Meckel, M. A. Hesse, J. Nicot:** Across-Fault Pressure Perturbation Induced by CO₂ Injection
- **T. M. Sodagar, D. C. Lawton:** Seismic Characterization of the Redwater Leduc Reef, Alberta, Canada
- **T. Meckel, S. D. Hovorka, J. Ajo-Franklin, D. Reiter:** Downhole Passive Microseismic Observations During Continuous CO₂ Injection at Cranfield, Mississippi
- **S. A. Smith, J. A. Harju, E. Steadman, J. A. Sorensen:** Overview of the Zama Acid Gas EOR, CO₂ Sequestration, and Monitoring Project
- **Y. I. Holubnyak, D. J. Knudsen, B. A. Mibeck, J. M. Bremer, S. A. Smith, C. D. Gorecki, J. A. Sorensen, E. Steadman, J. A. Harju:** Geochemical Modeling of Carbon Dioxide Injection into Carbonate Formation in the Northwest McGregor Oil Field for CO₂ Storage and Enhanced Oil Recovery (EOR)
- **G. D. Wach, M. Zentilli:** Subsurface CO₂ Storage in Nova Scotia, Eastern Canada
- **G. Falorni, A. Tamburini, F. Novali, A. Ferretti:** Multi-interferogram InSAR Techniques for Monitoring Surface Deformation in CO₂ Sequestration
- **N. Dobrzinski, D. Haberial, M. Bunch, S. Holl, B. Ainsworth, S. Mockler, J. Kaldi:** Modeling Geological Storage of CO₂: A Workflow Perspective
- **Q. Tao, S. L. Bryant:** Model of CO₂ Leakage Rates Along a Wellbore

Theme XI: Carbon Dioxide Capture and Geologic Sequestration (DEG/EMD)

Exhibition Hall 8:30 a.m.-12:00 p.m.

Co-Chairs: A. K. Anderson, Y. Kharaka, D. A. Jenkins and J. Drahovzal

- **L. Goldie Divko, J. Hamilton, G. W. O'Brien:** Evaluation of the Regional Top Seal for Geologic Carbon Sequestration, Gippsland Basin, Southeastern Australia
- **M. A. Hesse, J. Neufeld, A. Riaz:** Convective Dissolution of CO₂ in Saline Aquifers
- **R. J. Rosenbauer, J. L. Bischoff, B. Thomas:** Experimental and Theoretical Alteration of Basalt by Supercritical CO₂: Implications for CO₂ Sequestration
- **D. R. Cole, Y. Kharaka, T. Bullen, S. D. Hovorka:** Environmental Impacts of CO₂ Sequestration in Sedimentary Basins

- **M. A. Simms, G. Garven:** Post-Closure Buoyancy-Driven Leakage of Sequestered CO₂ Along Fault Zones
- **A. Hartling:** Geological Carbon Sequestration and Shale Gas Development in Northeast British Columbia, Canada
- **C. Sullivan, F. A. Spane, P. McGrail:** Carbon Dioxide Sequestration in Continental Flood Basalts: Meeting Subsurface Imaging and Characterization Challenges in Eastern Washington
- **J. R. Damico, J. P. Grube, S. M. Frailey, B. Seyler:** Integrated Development of Geologic Models and Field Test Results in Sequestration/EOR Pilots in the Illinois Basin
- **D. Palombi, T. E. Hauck, S. Bachu:** Geological and Hydrogeological Site Characterization for Saline Aquifer CO₂ Storage in the Redwater Leduc Reef, Alberta, Canada
- **R. W. Olson:** Review of Data Indicating the Historical Effect of the Sun on Climate Change
- **S. D. Hovorka:** Deep and Near-Surface Monitoring for Enhanced CO₂ Storage Security
- **E. Rehmer:** Regulatory and Policy Implications for Basin Scale Geologic Carbon Sequestration Projects
- **D. Pudlo, R. H. Gaupp:** The Relevance of Chlorite-/Biotite-Fluid Interaction on Porosity/Permeability Attributes of CO₂ Reservoir Rocks.
- **G. Wang, T. R. Carr:** Evaluation of CO₂ Geologic Storage Resource in the Ordos Basin, China
- **C. Hermanrud, H. M. Nordgård Bolås, G. G. Teige:** Risking of Hydrocarbon Exploration and CO₂ Storage — Similarities and Differences
- **G. J. Kirkpatrick, J. Phipps Morgan, J. Hasenclever:** PorousM3, a Finite Element 2-D and 3-D Porous Flow Modeling Code Being Developed to Model Carbon Sequestration
- **S. Menacherry, S. Mockler, S. Holl:** Assessing a Regional to Site-Specific Potential for Geologic Sequestration in the Sydney Basin, Australia
- **M. Sturmer, R. N. Tempel, J. G. Price:** Evaluating Carbon Sequestration Potential by Modeling Mineral Carbonation of Mafic Rocks from Nevada Using Both Pure CO₂(g) and Flue Gas
- **S. Beers, Y. Kharaka, J. Thordsen, W. Herkelrath, P. Campbell, J. Birkholzer, R. Trautz, H. Rauch, K. Gullickson:** Groundwater Chemistry Changes as a Result of CO₂ Injection at the ZERT Monitoring Field Site, Bozeman, Montana
- **S.R. Kelley, K.J. Patterson*, D.A. Barnes:** Geological Controls on Mount Simon Sandstone Reservoir Quality and Geological Carbon Sequestration Potential in the Michigan Basin, USA: Conventional Core, Petrographic, and Petrophysics Analysis

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