

AAPG Bookstore

Annual Convention of the American Association of Petroleum Geologists 2007

“Understanding Earth Systems -
Pursuing the Checkered Flag”

April 1-4, 2007
Long Beach, California, USA

Volume 1 of 2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-082-6

Some format issues inherent in the e-media version may also appear in this print version.

TABLE OF CONTENTS**Volume 1**

Hydrocarbon Migration and Thermal Degradation of Monterey Formation Oil in Santa Maria Basin, Offshore California	1
<i>Joseph M. Saenz, Frank E. Denison, Craig K. Ogawa, Thomas J. O'Neil, Peter J. Fischer</i>	
A Mass Movement Model for the Santa Maria and Santa Lucia Basins, Offshore California.....	2
<i>Joseph M. Saenz, Frank E. Denison, Thomas J. O'Neil, Craig K. Ogawa</i>	
Multi-stage Dolomitization of the Upper Permian Zechstein Limestone (Ca1) Carbonates (SW Poland)	3
<i>Tadeusz Marek Peryt, Marek Jasionowski</i>	
Differential Deformed Salt-Related Tectonics of the Kuqa Foreland Fold-Thrust Belt, Tarim Basin, Northwest China	4
<i>Liangjie Tang, Yixin Yu, Chengzao Jia, Zhijun Jin</i>	
Future of the Arctic - Where Are The Resources and What Are They Worth?	10
<i>Andrew Latham</i>	
Geomorphology of Carbonate Systems and Reservoir Modeling: Carbonate Training Images, FDM cubes, and MPS Simulations	11
<i>Marjorie Levy, Paul Harris, Sebastien Strelbelle, Eugene C. Rankey</i>	
Mass-transport Deposits, the Dominant Sediment in the Near-surface Interval on the Upper Slope of Sabah, Deepwater Northwest Borneo	12
<i>Hongbo Lu, Craig Shipp, Chris Hadley</i>	
An Analytical Formulation of Seismic-Derived Resistivity	13
<i>Denny Merkurius Mendoza, Bambang Widarsono</i>	
Prediction of Sub-Seismic Sealing Faults Using Simple Numerical Simulation Models	19
<i>Richard C. Bain, Kirk H. MacIvor, Brooke E. Holt, D. Scott Beaty</i>	
Hydrocarbon Source Rock Potential of the Whitehorse Trough, a Frontier Basin in Southern Yukon, Canada	20
<i>Grant W. Lowey</i>	
The Relationship between Rank and Elastic Properties of Coal	21
<i>Anyela Morcote, Gary Mavko</i>	
2006-2009; A Review of Global Elephant Hunting	22
<i>Ian Cross</i>	
Growth - Are We Underestimating Recent Discoveries?	23
<i>Keith C. King</i>	
Geologic Controls on the Elastic and Petrophysical Properties of Clastic Rocks	24
<i>Juan-Mauricio Florez, Gary Mavko</i>	
Titan : Sedimentology on a World of Hydrocarbons	25
<i>Ralph Lorenz</i>	
Use of T-R Sequence Methodology in the Analysis of the Onshore Interior Salt Basins of the Gulf of Mexico.....	26
<i>Ernest A. Mancini</i>	

Active Structural Growth Controls Reservoir Distribution of Upper Jurassic Slope Systems, South Viking Graben, Northern North Sea	27
<i>Christopher Aiden-Lee Jackson, Eirik Larsen, Sigmund Hanslien, Anne-Elise Tjemslund</i>	
Carbonate Cementation along Marine Flooding Surfaces of the Mesa Verde Group (Upper Cretaceous), Wyoming and Colorado: Implications for Sandstone Reservoir Quality Prediction	28
<i>J. Marcelo Ketzer, Ronald Steel, Louise Kiteley, Claudemir Vasconcelos</i>	
Fracture Detection Using Multi-Azimuthal AVO At Y107, Jizhong Depression, Hebei Province, China	29
<i>Renfang Pan</i>	
Late Paleozoic Ice Volume Controls on the Paleoclimate and Stratigraphic Record of Southern Euramerica.....	30
<i>C. Blaine Cecil, Frank T. Dulong, Isabel Montanez</i>	
Calibrating Theoretical Sandstone Reservoir Models with Realistic Bedding Structures on Outcrops; Applications in Thin Bedded Fans and Heterolithic Tidal Reservoir Sands, Examples from the Sedimentary Basins of Nigeria.....	31
<i>Emeka. A. Anyadike, Efosa. Arthur, Samuel. J.L Coker</i>	
Prediction of Natural Fracture Intensity in Complex Carbonate Reservoirs, Improving Drilling Location Selection in Mexico	32
<i>Manfred Frass, Efrain Mendez, Rodolfo Rocha</i>	
Analysis of Slip History on Strike-Slip Faults Using Sedimentary Basins: Examples from the NE Tibetan Plateau	33
<i>Bradley Ritts, Yongjun Yue, Stephan Graham</i>	
Secondary Microbial Methane From Very Slight Biodegradation of Undersaturated Oil in a Deep Hot Reservoir: Geochemical Evidence	34
<i>Alexei V. Milkov, Leon Dzou</i>	
Predicting Petrophysical Properties Based on Conformance between Diagenetic Products and Depositional Textures	35
<i>F. Jerry Lucia</i>	
New Opportunities for an Old Field.....	36
<i>Temistocles Rojas, Rosmari Usta, Lehywis Villa, Villasmil Jose, Prieto Isabel, Chirinos Francisco, Miladis Blanco</i>	
Facies and Flow Units Distribution in Sandy Estuaries.....	37
<i>Temistocles S. Rojas, Dr. Deborah S. Lawrence</i>	
Predicting Physicochemical Properties of Upper Jurassic Circum-Arctic Crude Oil	38
<i>Kenneth E. Peters, L. Scott Ramos, John E. Zumberge, Zenon C. Valin, Donald L. Gautier</i>	
De-Convoluting Mixed Crude Oils in Prudhoe Bay Field Using Chemometrics.....	39
<i>Kenneth E. Peters, L. Scott Ramos, John E. Zumberge, Zenon C. Valin, Kenneth J. Bird</i>	
Importance of Facies-Based Earth Models for Understanding Flow Behavior in Carbonate Reservoirs.....	40
<i>Marjorie Levy, William Milliken, Paul Harris, Sebastien Strebelle, Eugene Rankey</i>	
Chemometrics Identifies Families of Crude Oils, Seep Oils, and Stranded Tarballs in Coastal California.....	41
<i>Kenneth E. Peters, Frances D. Hostettler, Thomas D. Lorenson, Robert J. Rosenbauer</i>	
Building Structural Frameworks in Complexly Faulted Reservoirs	42
<i>Karen S. Hoffman, John W. Neave, Erik H. Nilsen</i>	
Alternative Energy from Alternative Energy: Using Landfill Gas to Help Produce Ethanol	43
<i>Dan DeBoer</i>	
Effect of Growing Structures on Stratigraphic Evolution, Channel Architecture and Submarine Fan Distribution, Niger Delta, West Africa.....	44
<i>Olusola Bakare, Neil Hurley, Timothy McHargue</i>	

Controls on the Geometry of Large-Scale Clastic Injection Complexes Adjacent to Submarine Slope Channels; Upper Cretaceous, Offshore Norway	50
<i>Christopher Aiden-Lee Jackson, Gillian Barber, Mads Huuse</i>	
Economic Production of Sandbed Methane from Ground Water	51
<i>Gary Farnsworth Player</i>	
Use of Artificial Neural Network to Identify Turbidite Deposit Gradation Generated in Laboratory	56
<i>Rafael Manica, Ana Luiza de Oliveira Borges Borges</i>	
Geochemical Characteristics of Source Rocks, and the Hydrocarbon Family in the Eastern Sirte Basin - Libya	57
<i>Idris Abulkhier</i>	
From Wildcatters to Wall Street: The Role of Independents and Small Operators in Today's Oil Patch	58
<i>Monika Ehrman</i>	
An Innovative Method of Quantifying Channel Distribution in a Frontal Splay Environment Using Shallow Seismic-Reflection Data	59
<i>Dominic A. Armitage, Thad P. Dunbar, Henry W. Posamentier</i>	
Petrophysical and Geological Modeling for Carbonate Reservoir Characterization. Zeit Bay Field, Gulf of Suez- Egypt	60
<i>Saber M.Selim, Khaled M.Abdalla, Bassem El-Sayed</i>	
Fracture Modelling in a Double Porosity Volcaniclastic Reservoir: A Case Study of the Precuyo Group in Cupen Mahuida Field, Neuquen, Argentina	61
<i>Martin Zubiri, Sr, Jose Silvestro, Sr</i>	
Sedimentology and Stratigraphic Architecture of a Mass Transport Deposit Dominated Submarine Slope Environment: The Sierra Contreras, Tres Pasos Formation, Chile.....	67
<i>Dominic A. Armitage, Brian W. Romans</i>	
Monitoring and reconstruction of subsurface CO₂ plumes using a stochastic inversion approach	68
<i>Abelardo L. Ramirez, William Foxall, Kathy Dyer, S. Julio Friedmann</i>	
Exploration Breakthrough in China since the Millennium: New Petroleum Systems, New Plays, and New Hopes	69
<i>Tianguang Xu</i>	
Assessing Carbonate Reservoir Potential and Improving Reservoir Performance Using Core-Based High Resolution Sequence Stratigraphy	70
<i>Robert F. Lindsay</i>	
Tarim Basin, NW China: Hunting Elephants	71
<i>Tianguang Xu, Dengfa He</i>	
Predicting Fault Controlled Diagenesis and Porosity/Permeability Evolution in Rotliegendes Reservoir, Germany: Insights from Reactive Transport Models.....	72
<i>Yitian Xiao, W. L. Esch, Joann E. Welton, R. E. Klimentidis, Pete Rumelhart</i>	
Devonian Reef Complexes Of The Canning Basin: 50 Years On	73
<i>Phillip Elliott Playford</i>	
On the Connectivity of Point Bars.....	74
<i>Marinus Eric Donselaar, Irina Overeem</i>	
Paleogeography and Depositional Geometries of the Pennsylvanian/Upper Carboniferous Succession of the Greater Permian Basin Region, Texas and New Mexico	75
<i>Wayne R. Wright</i>	
MISS on Mars – Biosignatures in Sandy Deposits on Earth and Beyond.....	76
<i>Nora Noffke, Dina Bower, Robert M. Hazen, Nathalie Cabrol</i>	

Geological and Petrophysical Modeling of a Heterogeneous Mid-Cretaceous Carbonate Reservoir from SW Iran	77
<i>Ali Asghar Taghavi, Atle Mørk</i>	
Coal Bed Methane Exploration in Zavala County, Texas.....	78
<i>P.D. Warwick, R.W. Hook, A.C. Clark, M.D. Corum, J.C. McIntosh, C.R. Burr, P.C. Hackley, D.B. Jensen</i>	
Neural Network and 3D Seismic Techniques Improve the Prediction of Facies Distribution within a Submarine Channel Complex. Neuquén Basin, Argentina	79
<i>Fernanda Raggio, Sr, Anna Ortín, Sr, Claudia Martínez, Sr, Pablo Uzzo, Sr</i>	
Slurry-Flow Deposits of the Punta Barrosa Formation, Southernmost Andes, Chile	80
<i>Andrea Fildani</i>	
Quantification of Slope Channel-Levees, the Rosario Formation, Baja California, Mexico.....	81
<i>Ian Kane, Ben Kneller, Mason Dykstra, William. D. McCaffrey</i>	
Acoustic Behavior of Sedimentary Rocks: Geological Properties Versus Poisson's Ratios	82
<i>Klaas Verwer, Hendrik Braaksma, Jeroen Kenter</i>	
Stratal and Facies Anatomy of a Lower Jurassic High-Rising Carbonate Platform Margin (Jebel Bou Dhar, High Atlas, Morocco)	83
<i>Klaas Verwer, Giovanna Della Porta, Jeroen Kenter, Oscar Merino, Ted Playton, Erwin Adams</i>	
Exploration Success Using Previous Failures: An Example of the Value of 20+ Years of Perseverance, Block 0, Cabinda, Offshore Angola	84
<i>Pete J. Chimney</i>	
3D Geological and Seismic Forward Modeling of a Sinuous Slope Channel Complex, Brushy Canyon Formation, West Texas	85
<i>Mark Tomasso, David R. Pyles, Florence L. Bonnaffé, David C. Jennette</i>	
Effect of Suspended Sediment Concentration on Deposition From Suspended Sediment Dispersions.....	86
<i>R.W.C. Arnott</i>	
Recognizing Reservoir Compartments on Geologic and Production Timescales Through the Integration of Stratigraphic, Structure and Fluid Data in Deep-Water Reservoirs: An Example from Genesis Field, Gulf of Mexico.....	87
<i>Michael L. Sweet, Larry T. Sumpter</i>	
Evaluation of a Large Volcanic Gas Play in the Northern Songliao Basin, Northeast China	88
<i>Stefan M. Luthi, Li Guo Xin, Wang Yu Hua, Yang Feng Ping, Zhao Jie, Jeff Meisenhelder, Sherif Farag, Yang Xing Wang, Zhu You Qing, Hou Hui Jun, Zhang Shu Pin, Wu Chuan, Wu Jie, Thomas J. Neville, Michael Conefrey, Huang Wei</i>	
Reserves Prediction in Exploration - the Trap We Have Got Ourselves Into and How to Deal with It	89
<i>Dave Quirk, Rick Ruthrauff</i>	
Overbank Flow from a Sinuous Submarine Channel: Process and Product.....	90
<i>Ian Kane, William. D. McCaffrey, Jeff Peakall</i>	
Application of Borehole Images for the Evaluation of Volcanic Reservoirs – A Case Study from the Deccan Volcanics, Cambay Basin, India.....	91
<i>Aditi Pal, Nigel Machin, Shashank Sinha, Chandramani Shrivastva</i>	
Submarine Channel Initiation and Evolution: an Experimental Approach	92
<i>Ian Kane, Jeff Peakall, William. D. McCaffrey</i>	
Playa Esqueleto and other outcrops - Braided, Conglomeratic Submarine Channels: Upper Cretaceous Rosario Fm., Baja California, Mexico.....	93
<i>Ian Kane, Ben Kneller, Mason Dykstra, William. D. McCaffrey</i>	

3d Modelling of (Upper Triassic) Continental Mixed Fluvial Systems Integrating “Lidar” Digital Outcrop Images with High-Resolution Sedimentology: High Atlas , Morocco	94
<i>Ivan Fabuel-Perez, Jonathan Redfern, David Hodgetts</i>	
Outcrops of Martian Sedimentary Rocks and Polar Strata as Viewed from Orbit at Aerial Photograph Scales.....	95
<i>Kenneth S. Edgett</i>	
Improved Identification and Characterization of Deepwater Thermogenic Hydrocarbon Macro-Seepage Using High-Resolution AUV Geophysical Data	96
<i>Bruce. M Samuels, Harry Dembicki</i>	
Preferential Downward Injection of Sandstone in the SW Karoo Basin, South Africa: Pre-Requisite Conditions and Trigger Mechanisms	97
<i>David M. Hodgson, Willem Van der Merwe, Carlos Oliveira</i>	
Microbial Mediation in Dolomite Formation During Carbonate Diagenesis	98
<i>Judith A. McKenzie, Crisogono Vasconcelos, Mónica Sánchez-Román, Tomaso Bontognali, Rolf Warthmann</i>	
Development of Tectonically-Confining Submarine Fans from the Tabernas-Sorbas Basin, SE Spain.....	99
<i>David M. Hodgson, Kevin T. Pickering</i>	
Cannibalisation of a Submarine Channel-Levee System by an Entrenched Submarine Channel System in the Laingsburg Depocentre, Karoo Basin, South Africa	100
<i>David M. Hodgson, Rufus L. Brunt, Claudio Di Celma, Stephen Flint, John. P. Kavanagh</i>	
Oil Sands of Canada: Geologic Framework and Influence of Regional Salt-Dissolution Effects	101
<i>Fran Hein</i>	
Influence of Mass Transport Deposit on Stratigraphic Evolution, Channel Morphology, and Turbidite Reservoir Preservation and Architecture, Niger Delta, West Africa.....	102
<i>Olusola Bakare, Neil Hurley, Timothy McHargue, Piret Plink-Bjorklund</i>	
Controls on Deepwater Sandstone Deposition in the Campos and Espírito Santo Basins of Brazil: Implications for Reservoir Prediction	108
<i>Andrei Belopolsky, Kevin Boyd, Scott Carmichael, Alexey Guryanov, Jake Hossack, Bob Jones, Julian Penge, Neil Piggott, Adam Poptani, Pat Randell, Alan Roberts, Cheree Stover, Mark Thompson</i>	
Seismic Expression of the Canyon Fill Facies and its Geological Significance - A Case Study from Ariyalur-Pondicherry Subbasin, Cauvery Basin, India.....	109
<i>S.K" Roy Moulik, Dr. G.K. Prasad</i>	
Cryptobioturbation and the Work of Sedimentologically Friendly Organisms	110
<i>S. George Pemberton, James A. MacEachern, Murray K. Gingras, Thomas Saunders</i>	
Exploration in Mature basin in Sumatra Island, Indonesia: A Historical Review to Challenge New Idea	111
<i>Avicenia Darwis, Sunjaya Saputra, Drianto Sudarmawan</i>	
Outcrop Analogues in Southern Utah Provide Improved Understanding of Marginal Eolian Reservoirs in the UK Southern North Sea	114
<i>Samantha Taggart, Gary Hampson, Matthew Jackson</i>	
The “Buckyball Effect”: Framework Grain Stabilization and Secondary Porosity Preservation in the Cambrian Galesville Sandstone, Illinois Basin	115
<i>Mojisola KunleDare</i>	
Early Infill of the Triassic Rift in the Fundy Basin (Nova Scotia): Assessment of the Stratigraphy by Correlative Surfaces in Fluvial Barren Sequences.....	116
<i>Sophie Leleu, Brian B. J. Williams</i>	
The Humma Marrat Reservoir Development Project - Design of Experiments-Based Workflow Efficiency Meets the Reality of New Delineation Well Data Acquisition	117
<i>W. Scott Meddaugh, Stewart Griest, David Barge</i>	

Stochastic Modeling of the Wafra Maastrichtian Reservoir, Partitioned Neutral Zone (Saudi Arabia and Kuwait)	118
<i>W. Scott Meddaugh, Raymond A. Garber, Stewart Griest, Dennis W. Dull, Rebecca Latimer, Arturo Contreras</i>	
Architectural Elements of a Sinuous Deep-Water Basin Axial Channel Complex, Cerro Toro Formation Outcrop Belt, Magallanes Foreland Basin, Chile	119
<i>Stephen M. Hubbard, Brian W. Romans, Stephan A. Graham</i>	
Reservoir Potential of Late Triassic Kamishak Formation: Puale Bay, Alaska Peninsula.....	120
<i>Bryan Sralla, Robert B. Blodgett</i>	
Foraminifera as Paleoceanographic Proxies of Canadian Fjords during the Last 1100 Years.....	121
<i>Natalia Vázquez Riveiros, R. Tim Patterson</i>	
Low Energy Alluvial Deposits from the Upper Cretaceous Prince Creek Formation, National Petroleum Reserve, North Slope, Alaska	122
<i>Peter P. Flaig, Paul J. McCarthy, Erik Brandlen, Anthony R. Fiorillo</i>	
New Chemical EOR Processes for Oil Prices Even at \$20/bbl or Less	123
<i>Patrick J. Shuler</i>	
Salt Geology and New Plays in Deep-Water Gulf of Mexico.....	129
<i>Abu N. Chowdhury, Laura Borton</i>	
In Situ Soft Sediment Deformation Structures in the Tanqua Depocentre, Karoo Basin, South Africa: A Statistical Approach to Understanding Processes and Products.....	136
<i>Carlos M. M. Oliveira, David M. Hodgson, Stephen S. Flint</i>	
A GIS Database of Deep Sedimentary Temperatures in the Northern Continental Shelf of the Gulf of Mexico.....	137
<i>Seiichi Nagihara, Michael Smith</i>	
Inverse Modelling of Stratigraphy: A Tool to Predict Facies Distribution and Assess Uncertainties for Reservoir Characterisation	138
<i>Karl Charvin, Kerry L. Gallagher, Gary J. Hampson, Jo Ann Hegre, Richard Labourdette</i>	
Geological Patterns and Rock Physics for a New Seismic Inversion Method	139
<i>Ezequiel F. Gonzalez, Tapan Mukerji, Gary Mavko</i>	
Evaluating Water-Flooding Incremental Oil Recovery Using Experimental Design, Middle Miocene to Paleocene Reservoirs, Deep-Water Gulf of Mexico	140
<i>Richard Dessenberger, Kenneth McMillen, Joseph Lach</i>	
Integration of Ground Penetrating Radar with Conventional Stratigraphic, and Lidar Data to Investigate the Three-Dimensional Geometry of a Tidal-Inlet Reservoir Analog, Upper Ferron Sandstone, Utah	146
<i>Keumsuk Lee, Renaud Bouroulliec, Mark Tomasso, William Ambrose</i>	
Maps Showing Location, Tectonic Character and Structural Setting of the Sedimentary Basins of the Arctic Region (65 -90 N. lat.)	147
<i>Arthur Grantz, Robert Scott, Sergey Drachez, Thomas E. Moore, James P. Howard</i>	
Cool-Water Carbonates: an Evolving Paradigm	148
<i>Noel P. James</i>	
Natural Fractures in the Barnett Shale: Why They Are Important	149
<i>Julia F. W. Gale, Jon Holder, Robert M. Reed</i>	
Evolution of Deep Water Confined Channels, Offshore Angola: Results from Integrated Cores, Logs, and Seismic Interpretation	150
<i>Jiajie Chen, Chris Tuttle</i>	
Comparisons and Contrasts between Boundary Transform Fault Basins and Trench-Linked Transform Fault Basins	151
<i>Cathy J. Busby</i>	

Origin and Distribution of Favorable Reservoir in Upper Triassic Feixianguan Formation of Northeastern Sichuan Basin, China.....	152
<i>Xiaoping Yang, Wenzhi Zhao, Hong Cao</i>	
Geometry, Origin and Significance of Late Syn-Rift Canyon Systems	153
<i>Andrew E. McAndrew, Christopher A.-L. Jackson, Tom Dreyer, Mike Charnock</i>	
Seismic Scale Injected Sandstones in the South Viking Graben, North Sea; Implications for Exploration of the Palaeogene Succession	154
<i>Elisabeth Bøhle Sletten, Reza Ramsumair, Eirik Larsen, Nicholas Satur, ingrid Nilsson, trond Ødegård</i>	
The Geometry and Evolution of the Sarulla Graben, Sumatra, a Strike-Slip Basin Hosting Significant Geothermal Resources.....	155
<i>Robert G. Hickman, Pat P. Dobson, Marc Van Gerven, Birean D. Sagala, Richard P. Gunderson</i>	
Mechanical Stratigraphy of Salt Induced Structures from Southern Gulf of Mexico	156
<i>Jorge Barrios, Felipe Audemard</i>	
A Sequence Stratigraphic Framework for the Lower Cretaceous North Carolina Coastal Plain, Southeastern U.S.A.....	157
<i>Richard Sunde, Brian P. Coffey</i>	
Geochemical Linkages Between Groundwater Flow and Microbial Methane Generation in Shallow Coal Beds and Fractured Black Shales: Northern Gulf of Mexico and Midcontinent U.S. Basins.....	158
<i>Jennifer McIntosh, Peter Warwick, Anna Martini, Stephen Osborn</i>	
Role of Antecedent Topography and Local Environmental Controls on the Evolution and Facies Heterogeneity of Miocene Carbonate Platforms, Southern Java, Indonesia	159
<i>Daniel Lehrmann, Akbar Satria</i>	
Sedimentary Environments and Depositional Characters of the Middle-Upper Eocene Succession in the Fayum Depression, Egypt	160
<i>Zaki A. Abdel-Fattah, Murray, K. Gingras, Michael, W. Caldwell, S. George Pemberton</i>	
Geochemical Signatures of Rapid Carbonate Crystallization in Well Scales.....	161
<i>Grace F. Giles, James R. Boles, Hilario Camacho</i>	
Detrital Mica Influence on Reservoir-Scale Diagenesis	162
<i>James R. Boles</i>	
Uncertainty in Reservoir Parameter Estimation From Attributes	163
<i>Herbert Swan, Rod K. Nibbe, Michael Faust, Brian Russell, Dan Hampson</i>	
Using Outcrop-Based 3D Geocellular Model as Seismic Benchmark: Prestack Seismic Modeling of Grainstones in Lawyer Canyon (Permian) Outcrop, Guadalupe Mountains, New Mexico.....	164
<i>Xavier Janson, Hongliu Zeng, Charles Kerans, Fred Wang, Sergey Fomel</i>	
The Roles of Basement Architecture and Salt Distribution in the Sierra Madre Oriental Fold-and-Thrust Belt and its Foreland Basin, Northeastern Mexico	165
<i>Mark G. Rowan, Randall Marrett, Samuel Eguiluz de Antuñano, Timothy F. Lawton, Mario Aranda-Garcia</i>	
Mississippian Barnett Shale: Lithofacies and Depositional Setting of a Deepwater Mudstone Succession	166
<i>Robert G. Loucks, Stephen C. Ruppel</i>	
Importance of Micropores in Deeply Buried Tertiary Sandstones Along the Texas Gulf Coast	167
<i>Robert G. Loucks, Shirley P. Dutton</i>	
Faults, Critical Taper, and the Mechanics of Foreland Basement-cored Uplifts.....	168
<i>Alexander P. Bump</i>	
3D Geometrical Simulations of LOSCs (Laterally Offset Stacked Channels).....	169
<i>Richard Labourdette</i>	

Pb Isotopic Constraints on Mesozoic Paleodrainage from the Northwest European Margin: Implications for Reservoir Distribution	170
<i>Shane Tyrrell, Peter D.W. Haughton, J. Stephen Daly</i>	
Stratigraphy of an Interbasinal Deep-Water Conduit: Lessons Learned from the Grand Coyer Sub-Basin, Eocene-Oligocene Grès d'Annot Sandstone, SE France	171
<i>Renaud Bouroulléc, Mark Tomasso, David, R. Pyles, Keumsuk Lee</i>	
Stratigraphic Architecture and Evolution of a Meandering Slope Channel Complex, Capistrano Formation, San Clemente, California	172
<i>Renaud Bouroulléc, David, R. Pyles, David, C. Jennette, Mark Tomasso</i>	
Impact of Local Accommodation on the Architecture and Stacking Patterns of Three Capistrano Formation Slope Channel Outcrops: San Clemente, Dana Point Harbor and Point Fermin, California.....	173
<i>Renaud Bouroulléc, David, R. Pyles, Daniel, E. Schwartz, David, C. Jennette, Florence Bonnaffé</i>	
Remobilisation Processes on the Submarine Slope: is the Degree of Deformation a Reliable Criteria for Transport Distance	174
<i>Willem C. Van der Merwe, David M. Hodgson, Steve Flint</i>	
Constraining Source Rock Quality Through Integrating Sedimentology, Geochemistry And Palynology: A Case Study from the UK Pennsylvanian	175
<i>S. J. Davies, T.S. Brewer, R.H. Davies, M. Norry, K. Hawkins</i>	
Late Pleistocene Shelf-Edge Deltas and Growth Faulting in the Northeast Gulf of Mexico: The Early Development of Shelf Margin Reservoir Systems	176
<i>Richard H. Fillon, Harry H. Roberts</i>	
Relationships in Heterogeneity, Measured Mechanical / Petrophysical Properties, and Visual (core and log) Interpretations to Assess Tight Gas Shale Reservoirs	177
<i>Michael S. Cameron, S. Robert Bereskin, George A. Waters</i>	
Geothermal Convection at Tengiz: Reactive Transport Models of Predictive Diagenesis and Evidence from the Rocks.....	178
<i>Gareth D. Jones, Joel F. Collins, Yitian Xiao, Jeroen, A.M. Kenter, Paul Harris, G. Kuansheva</i>	
SECARB Field Test for CO₂ Sequestration in Coalbed Methane Reservoirs of the Black Warrior Basin, Alabama.....	179
<i>Jack Pashin, Peter Clark, Richard Esposito</i>	
Internal Architecture of an Incised Valley Formed within a Semi-Arid Setting, Baffin Bay, Texas	180
<i>Niranjan Aryal, Alexander Simms</i>	
Citronelle Dome: A Giant Opportunity for Multi-Zone Carbon Storage and Enhanced Oil Recovery in the Mississippi Interior Salt Basin of Alabama	181
<i>Jack Pashin, Richard Esposito</i>	
Evolution of Coastal Ponds in a Semi-Arid Setting, South Texas	182
<i>Simms Alexander, Niranjan Aryal</i>	
Comparing Mesozoic and Cenozoic Mixed Carbonate-Siliciclastic Systems From A Single Basin During Greenhouse and Icehouse Times; What Role Does Climate Play?	183
<i>Brian P. Coffey, Richard Sunde, J. Fred Read</i>	
Dispelling The Myths: Exploration and Development of Natural Gas Hydrate.....	184
<i>Arthur H. Johnson, Michael D. Max</i>	
Modeling Crevasse Splay Versus Point-Bar Bodies: Relative Roles in Characterizing Tight-Gas Fluvial Reservoir Successions	185
<i>Donna S. Anderson, Mary M. Carr</i>	
Newly Formed vs Reactivated Strike-Slip Faults in a Mud-Dominated Fold Belt, Mackenzie Delta	186
<i>Greg Schoenborn</i>	
Potential of Lunar Helium-3 Fusion Power.....	187
<i>Harrison H. Schmitt</i>	

Characterization of Fluvial Architectural Elements Using a Three-Dimensional Outcrop Dataset	188
<i>Richard Labourdette, Richard Jones</i>	
New Insight into Sediment Deposition from Turbidity Currents and ‘Linked’ Debris Flows.....	189
<i>Peter J. Talling, Russell B. Wynn, Lawrence Amy</i>	
Behaviour of Fully Ponded Turbidity Currents in Confined Basins: An Experimental Study.....	190
<i>Marco Patacci, William. D. McCaffrey, Peter D.W. Haughton, Lucie Baudouy</i>	
Integration of Core, Image-Log, and Wireline-Log Data Extends Facies Interpretations in the Upper Cretaceous Olmos Formation of South Texas	191
<i>Ramón H. Treviño, Robert G. Loucks, Julia Gale, Abdelmoniem K. Abdelmoniem</i>	
Digital Geomorphic Mapping of the Cape Hatteras National Seashore: An Extensive Dimensional Dataset From A World-Class Barrier Island Complex	192
<i>Brian P. Coffey, Charles W. Hoffman</i>	
A Statistical Factor Analysis Approach to Reservoir Quality Prediction in the Tertiary Fluviolacustrine Sandstones of the Yaojin II Field in the Qaidam Basin, NW China	193
<i>Tianguang Xu, Xiaoru Li, Jincheng Liu</i>	
Joint Committee On Reserves Evaluator Training (JCORET)-Update On Activities	194
<i>Daniel J. Tearpock</i>	
Regional Assessment of CO₂ Sources and Sinks for the Indian Subcontinent	195
<i>Richard A. Beck, Yolanda Price, S. Julio Friedmann, Lynn Wilder, Lee Neher</i>	
Near- to Mid-Term Energy Mineral Sources: Bridging the Future to Alternative Energy	196
<i>William A. Ambrose</i>	
Ichnological Patterns at Kouchibouguac Estuary, NB, Canada	197
<i>Tyler E. Hauck, Murray K. Gingras, S. George Pemberton</i>	
Hydrocarbon Systems, Basin Analyses, and 2006 Field and Subsurface Data: Bristol Bay, Alaska Peninsula, Frontier Basin	198
<i>Rocky Robert Reifenstuhl, Paul L. Decker, Robert J. Gillis, Kenneth P. Helmold, Andrea Strauch</i>	
Structural and Sedimentological Evolution of the Ultra-Deep Gas Play Fairway – Gulf of Mexico Shelf, Texas and Louisiana.....	199
<i>Cathy L. Farmer, Debra H. Phillips, R. H. Benthen, D. V. Dailey, B. W. Horn, D. G. Derbecker</i>	
Facies Variation Within Salt Constrained Shelf Margin Deltas – a New Model for the Texas Shelf	200
<i>David G. McPherson, Richard E. Kilby</i>	
Fine-Scale Relief on The Floor of Upper Redondo Fan Valley: Multibeam Bathymetry And Chirp Reflection Profiles from The MBARI Mapping AUV in San Pedro Basin, Offshore Southern California.....	201
<i>William R. Normark, C. K. Paull, D. W. Caress, W. Ussler, III, R. Keaton, R. Sliter</i>	
Fault Control On The Architecture Of Deepwater Channel-levee Systems In The Limón Back-arc Basin, Costa Rica	202
<i>Christian Brandes, Stefan Back, Ralf Littke, Jutta Winsemann</i>	
Stratigraphic Signatures of Icehouse Climate Regimes: The Permian Record of Eastern Australia.....	203
<i>Christopher R. Fielding, Jonathan Allen, Michael C. Rygel, Lauren P. Birgenheier, Tracy Frank</i>	
Lithology, Lithofacies, or Architectural Elements for Reservoir Modeling?	204
<i>Juan-Mauricio Florez-Nino, Omar Angola</i>	
Worldwide Distribution of Major Carbon Dioxide Deposits, Geologic Setting and Gas Isotopic Evidence of Mantle Sources in Areas of Crustal Extension and Transtension.....	205
<i>Martin M. Cassidy, Kevin Burke</i>	

Seismic Reflections of Rock Properties	206
<i>Jack Petrovich Dvorkin</i>	
A New Methodology on Reservoir Modeling in the Fracture-Cavity Carbonate Rock of Tahe Oilfield.....	207
<i>Xueli Liu, Sr, Xiaoxian Zhai, Sr</i>	
Fracture and Fault Prediction in Basement-Involved Fault-Related Folds: Comparisons Between Physical Models and Trishear Calculations	213
<i>Mark P. Fischer, David Keating, Nestor Cardozo, Christina Majerowicz</i>	
Detailed Modeling of Channelized Deposits Using a Process-Based Stochastic Approach	214
<i>Isabelle Cojan, Jacques Rivoirard, François Geffroy</i>	
Catalytic Gas in Deltaic Basins	215
<i>Frank Mango, Daniel Jarvie</i>	
Implications of Shoreline Trajectory for Transgressive Facies Architecture.....	216
<i>Oliver Jordan, Sanjeev Gupta, Gary Hampson, Howard Johnson</i>	
Cyclicity in Carbonates: Simple Models Versus The World	217
<i>Peter M. Burgess, III</i>	
Rock Physics Links Between Seismic and Geologic Processes.....	218
<i>Gary Mavko</i>	
More Effective Use of Outcrops in Deep-water Studies.....	219
<i>Tor H. Nilsen, Roger D. Shew, Gary S. Steffens, Joseph R.J. Studlick</i>	
Beyond Parasequences: Reservoir Characterization Using High-Resolution (Bedset-Scale) Physical Stratigraphy in Shallow-Marine Strata.....	220
<i>Gary Hampson, Peter Sixsmith, Oliver Jordan, Richard Sech, Sanjeev Gupta, Matthew Jackson, Howard Johnson</i>	
3-D Seismic Analysis of a Potential Meteorite Impact Crater, San Joaquin County, California.....	221
<i>Samuel Spevack, Jared R. Morrow, Bennett Spevack</i>	
Architectural Hierarchy of Two Juxtaposed Slope Channel Complex Sets in the Laingsburg Depocenter, Karoo Basin, South Africa.....	222
<i>Claudio Di Celma, Dave Hodgson, Rufus L. Brunt, John. P. Kavanagh, Chris J. Haigh, Jamie K. Pringle, Stephen Flint</i>	
A Methodology for Automated Correction and Validation of Seismic Horizon and Fault Interpretation Using DYNEL, a Geomechanically-Based 3-D Restoration Tool	223
<i>Laurent Maerten, Frantz Maerten, Paul Griffiths, Nigel Pike</i>	
Workflows for Geomechanical Restoration and Forward Modelling in Fold and Thrust Belts:Comparison with Geometric Methodologies, Applications and Limitations	224
<i>Paul Griffiths, Laurent Maerten</i>	
Sedimentology and Hydrocarbon Significance of the Devonian-Carboniferous Succession in Novaya Zemlya, Arctic Russia	225
<i>Li Guo, Roman Schekoldin, Robert A. Scott, James P. Howard, Jenny E. Omma</i>	
Sand Injectites: Aature and Hydrocarbon Implications. Outcrop Analogues From Santa Cruz, California and Tabarka, Tunisia	226
<i>Anthony Scott, Mario Vigorito, Andrew Hurst, Joe Cartwright</i>	
Variability in Structural Style and Fault Interaction in Submarine Compressional Structures: a Case Study from Offshore Venezuela	227
<i>Nieves Nevado, Asdrubal Bernal, Cesar Vasquez</i>	
Recognition of Biotically Induced Precipitates and a Proposed Geochemical Biosignature	228
<i>Henry S. Chafetz</i>	

Shale Gas Potential in New York: Results from Recent NYSERDA-Sponsored Research	229
John P. Martin, Richard Nyahay, James Leone, Daniel Jarvie	
Reservoir Characterisation of a Seven Billion Barrel Bitumen Field in West-Central Alberta, Canada: Planning for a Sticky Canadian Heat Wave!	230
Mark Caplan, Duncan Mackay, Bob Lamond	
Improving Middle East Carbonate Reservoir Models with Digital Outcrop Modeling	231
Erwin W. Adams, Anita E. Csoma, Carine Grélaud, Loïc Bazalgette, Cathy Hollis	
Spatial Quantification of Aggrading, Backstepping, and Drowning Patterns of a Frasnian Carbonate Platform System (Bugle Gap, Canning Basin, Western Australia)	232
Erwin W. Adams, Claude-Alain Hasler	
Drillability Beyond Pressure: BP's Gulf of Mexico experience	233
Jean-Pierre Blangy, Martin Albertin, David Greeley, Paul Mitchell, Johnathan Bellow, Charlie Jay, Graham Vinson, Johnston Paul, Ray Wydrinski, Shira Paulson, Bruce Wagner	
Towards an Unified Mudstone Model: Common Attributes and Controls on Hydrocarbon Source, Reservoir, and Seal Potential	234
Kevin M. Bohacs	
Processes involving the formation of Organic Facies for Oil and Gas-Condensate Source rocks in the Late Triassic to Early Cretaceous Sediments from the Central Atlantic Conjugate Margin	235
Prasanta K. Mukhopadhyay (Muki)	
Earthquakes, Geomorphic Analysis and Field Work Yield Previously Unmapped Faults and a New Understanding of Active Tectonics, Santa Monica Mountains, California	236
Lauren E. Seidman, Mark A. Millard, Brian G. Bayliss, Vincent S. Cronin	
Sequence Stratigraphy of the Angostura Formation (Ecuador) and Caleta Herradura Formation (Northern Chile): Evidence for Middle to Late Miocene Orbitally Paced Eustatic Sea-Level Changes	237
Claudio Di Celma, Gino Cantalamessa, Luca Ragaini, Gigliola Valleri, Walter Landini	
Controls on Accommodation in Retroarc Foreland Systems: Case Study of The Lea Park Formation And Equivalents, Western Canada Sedimentary Basin	238
Andrew J. Mumpy, Octavian Catuneanu	
Understanding the Evolution of Clastic Sediments from the Deep-Marine Ainsa-Jaca Basin, Spanish Pyrenees: A Petrographic Approach	239
Kanchan Das Gupta, Kevin T. Pickering	
Re-Os Isotope Geochemistry and Its Potential Use in Basin Fluid Analysis	240
Joaquin Ruiz, John Chesley, Fernando Barra	
Styles and Multistage Salt Intrusions in the Southern Gulf of Mexico: Implications on the Timing and Reservoir Distributions	241
Raymundo Sanchez, Felipe Audemard, Ruben Sanchez, Carlos Williams	
The Petroleum System in La Blanquilla and Tuy-Cariaco Basins, Offshore Venezuela	242
Adriana C. Pérez G, Asdrúbal J. Bernal P	
Sedimentology on Mars as Seen by HiRISE	243
Nathan Bridges	
Deep Cold-Water Dolomitization of Neogene Sediments, Belgica Carbonate Mound Province, Porcupine Basin, North Atlantic Ocean	244
Jay M. Gregg, Tracy D. Frank	
Refining the Concepts of Connectivity and Continuity in Deepwater Environments	245
Joseph M. Hovadik, David K. Larue	
Characterization of Fractures and Their Effect on Reservoir Directional Flow in the Tensleep Sandstones, Wyoming	246
Peigui Yin, Shaochang Wo	

A Workflow for Modeling Multi-scale Flow Barriers in Deep Water Turbidite Reservoirs	247
<i>Hongmei Li, Jef Caers</i>	
A Comprehensive Classification of Seals Based on Worldwide Subsurface Analogs	248
<i>José I. Guzmán, Rod Sloan, Shengyu Wu, Shaoqing Sun</i>	
Reservoir Flow Unit Characterization of Complex Channel Sandstone Units in Baolang Oilfield, Yanqi Basin, West China.....	249
<i>Guangqing Yao, Fengde Zhou, Timothy R. Carr, Jiahao Wang, Shangru Sun</i>	
Reservoir Characterization of Lacustrine Argillaceous Dolomite with Trona Interbeds.....	250
<i>Guangqing Yao, Fengde Zhou, Timothy R. Carr, Shangru Sun</i>	
Estimating Sinuosity of an Outcropping Submarine Leveed-Channel Complex	251
<i>Roger M. Slatt, Staffan K. Van Dyke, Janice M. Dodson</i>	
Reflection-Seismic Definition of a Late Cretaceous East-Vergent Thrust on the Western Flank of the Northern San Joaquin Basin and Its Influence on Deep-Water Deposition.....	252
<i>Paul J. Harrison, Stephan Graham, Denise H. Harrison, David H. Suek, Steven D. Jones, David B. Codding</i>	
Highstand Fans And The Myth Of Accommodation Space: The Sand Is Just in Somebody Else's Deep-water Backyard in The California Borderland.....	253
<i>Jacob A. Covault, William R. Normark, Stephan A. Graham</i>	
Tectonism and Eustacy in Devonian Reef Complexes of the Canning Basin, Western Australia.....	254
<i>Roger M. Hocking, Phillip E. Playford</i>	
GIS-based Structural Geology for Petroleum Exploration within the Polish Permian Basin.....	255
<i>Rafal Kudrewicz</i>	
Incorporation of Detailed Fault Structure into Reservoir Models	256
<i>Graham Yielding, Tom Manzocchi, Andy Heath, Brett Freeman, Andy Foster</i>	
Extensive Diagenetic Carbonate Cementation of Fluvial Successions, Upper Cretaceous, Book Cliffs, Utah: Implications for Subsurface Prediction.....	257
<i>Kevin G. Taylor, Rob L. Gawthorpe</i>	
Ainsa Submarine Fans, Middle Eocene, South Spanish Pyrenees: Integrated Outcrop - Subsurface Study of Architecture and Processes	258
<i>Kevin Thomas Pickering, Julian Clark, Nicole Bayliss, Jordi Corregidor</i>	
Controls and Timing of Structural Inversion in the NE Atlantic Margin.....	259
<i>Adrian Kern Tuitt, John Underhill, Derek Ritchie, Roger Scrutton, Howard Johnson, Ken Hitchen</i>	
Whole Core versus Plugs: Scale Dependence of Porosity-Permeability Measurements in Platform Carbonates	260
<i>S. N. Ehrenberg</i>	
End-Signature of Deep-Marine Basin-Fill, as a Structurally Confined Low-Gradient Clastic Slope: the Middle Eocene Guaso System, South-Central Spanish Pyrenees	261
<i>Clare Sutcliffe, Kevin Pickering</i>	
Uranium Decrease across the Permian/Triassic Boundary in the Khuff Formation, Offshore Persian Gulf: Evidence of Biotic Devastation in a Shallow-water Carbonate Platform.....	262
<i>S. N. Ehrenberg, T. A. Svånå, Peter K. Swart</i>	
Origin of Layering in a Giant Thamama Reservoir, Offshore Abu Dhabi	263
<i>Rachel A. Wood, J.Anthony D. Dickson, Hamad Bu Al Rougha, Hesham Shebl</i>	
A Megascale View of Reservoir Quality in Producing Sandstones from the Offshore Gulf of Mexico	264
<i>S. N. Ehrenberg, Paul H. Nadeau, Øyvind Steen</i>	

Numerical Modeling of Turbidity Current Hydrodynamics and Sedimentation in a Faulted-Margin Setting	265
<i>Remco M. Groenenberg, Wiebke Athmer, Marinus E. Donselaar, Dimitrios Sokoutis, Ernst Willingshofer</i>	
Mass-Transport-Complexes (MTCs) in the Western Offshore Nile Delta: Morphology, Distribution, Controls and Implications for Exploration	266
<i>Dorthe Moeller Hansen, Jonathan Redfern</i>	
Linking Sedimentology and GPR Data: the Subsurface Holocene of Sylt Island (German Bight)	267
<i>Jörn Fürstenau, Sebastian Lindhorst, H. Christian Hass, Susanne Feindt, Christian Betzler</i>	
Sedimentology, Sedimentary Architecture and Stratigraphy of Isolated Inner Shelf Channels, Upper Cretaceous Aberdeen Member, Green River Embayment, Book Cliffs, eastern Utah, U.S.A.: Implications for Shoreface-to-Shelf Facies Models	268
<i>Simon A.J. Pattison, R. Bruce Ainsworth</i>	
An Assessment of Carbon Sequestration Options in the Mt. Simon of the Illinois Basin	269
<i>Hannes Leetaru, Scott M. Frailey, David G. Morse, Robert J. Finley</i>	
Matching Both Production History and 4D-Seismic Attributes	270
<i>Mickaële Le Ravalec-Dupin, Yann Gautier, Alexandre Fornel, Frédéric Roggero</i>	
Dolomitization of the Aguathuna Carbonates in Western Newfoundland, Canada: Implications for a Potential Hydrocarbon Reservoir	271
<i>Karem Azmy, Denis Lavoie, Ian Knight</i>	
New Insights for Correlation in Shoreface-to-Shelf Systems Based on Observations in the Campanian Blackhawk Formation to Castlegate Sandstone Stratigraphic Interval, Book Cliffs, Utah	272
<i>Simon A.J. Pattison, Huw Williams, Paul Davies</i>	
Saar-Nahe Basin Analysis – Continental Sediment Transport initiated by Strike-Slip (Carboniferous-Permian, W-Germany)	273
<i>Andreas Schaefer</i>	
Repeated Cycles of Progradation and Incision of Upper Cretaceous Shelf-Margin Deltas, Northern San Joaquin Basin, California	274
<i>Denise H. Harrison, Steven D. Jones, Paul J. Harrison, John M. Armentrout, David H. Suek, David B. Codding</i>	
Application of Seismic Attributes for Enhanced Structural Interpretation of the Wilburton Gas Field Area in Southeastern Oklahoma	275
<i>Surinder Sahai, Ibrahim Cemen, Dale Cox</i>	
Soft-Sediment Deformation Structures: Upper Cretaceous Lance Formation, Jonah Field, Wyoming	276
<i>Faisal A. Alquhtani, Frank G. Ethridge</i>	
All Fill — No Spill: Slope-Fan Sand Bodies in Growth-Faulted Subbasins, Frio Formation, South Texas Gulf Coast	277
<i>Ursula Hammes, Hongliu Zeng, Robert Loucks, Frank Brown</i>	
Methane Clathrate Hydrates, Subseafloor Clam Communities & Carbonate Cement Diagenesis in The Pierre Shale: A Paradigm Shift in The Origin of Mixed Carbonate And Siliciclastic Sediments	278
<i>Federico F. Krause, Selim G. Sayegh, Renee Perez, Jesse Clark</i>	
Effect of Watermass Properties on the Distribution of Recent Deep-sea Benthic Foraminifera Across the Indian Ocean	279
<i>Soma De, Anil Kumar Gupta</i>	
Raised Curvilinear Features on Mars: Inverted Paleochannels in the Martian Stratigraphy	283
<i>Rebecca M. E. Williams</i>	

Petrophysical Characteristics and Facies Distribution of Reservoir and Non-reservoir Rocks from the Anadarko Basin, Oklahoma	284
<i>Constantin Cranganu, Maria A. Villa</i>	
Reservoir Quality and Pore-Type Evolution in Deep to Ultradeep Tertiary Sandstones of the Northern Texas Gulf of Mexico Coast.....	285
<i>Shirley P. Dutton, Robert G. Loucks</i>	
The Development of Leveed Channels by Turbulent, Plane Jets: Laboratory Modeling of Floodplain Tie Channels	286
<i>Joel C. Rowland, Mark Stacey, William E. Dietrich</i>	
Understanding the Wilcox 1 and Wilcox 2 Reservoir Distribution at Jack (It's Possible That You Don't Know Jack!)	287
<i>R. Tom Mooney, Morgan D. Sullivan, Larry Zarra</i>	
Coupling 2D Numerical Kinematic and Thermal Maturity Modelling in Fold and Thrust Belt and Foreland Basin: Implications for the Petroleum System in the Eastern Venezuelan Basin.....	288
<i>Adrián E. Vargas F, Asbrúbal J. Bernal P</i>	
Volumetric Curvature-Attribute Applications for Detection of Fracture Lineaments and Their Calibration.....	289
<i>Satinder Chopra, Kurt J. Marfurt</i>	
The Role of Active Structural Growth in Controlling Deep-Water Reservoir Systems and Petroleum Prospectivity in the Confined Gulf of Lyons Basin, Western Mediterranean	290
<i>Roman S. Ianev, Nathalie Bordas-Le Floch, John R. Underhill, Richard J.W. Bunt</i>	
California's Changing Paleogeography and Paleotectonics, Before and After John Crowell's Definitive Work on Strike-Slip Systems.....	291
<i>Raymond V. Ingersoll</i>	
A Predictive Mudstone Porosity Model Which Includes the Effects of Mechanical Compaction, Temperature, Mineralogy, Chemical Diagenesis, and Overpressure	292
<i>James T. Krushin</i>	
Subsidence History and Its Impacts to Hydrocarbon Potential of The Song Hong Basin, Vietnam	293
<i>Huyen Bui, Jack Dvorkin, Amos Nur</i>	
Carbonate Diagenesis: Processes and Prediction.....	294
<i>Fiona F. Whitaker, Peter L. Smart, Richard J. Paterson</i>	
Stratigraphic and Spatial Changes in Channel Morphology Related to Deepwater Processes in Confined and Ponded Slope Mini-Basins, Angola	295
<i>Julian D. Clark, Tim R. McHargue</i>	
Fluvial Channel Stacking Patterns are Not a Foolproof Indicator of Changes in Accommodation	296
<i>Anton Wroblewski</i>	
Do Microbial Processes Control CaCO₃ Crystal Morphology?	297
<i>Vionette DeChoudens, Jennifer Roberts, Luis A. Gonzalez</i>	
Characteristics of Laterally Confined Sheet Sands. Quebrada Las Lajas, Northwestern Argentina	298
<i>Vanessa Kertznus, Ben Kneller, Mason Dykstra</i>	
Stratigraphic Response to Tectonic Evolution of the Cretaceous Gyeongsang Basin, Korea: An Example of Tectonically Controlled Lake Basin in Active Margin Setting	299
<i>In-Chang Ryu, Seon-Gyu Choi, Soo-Meen Wee, Tae-Hoon Kim, Chang-Yoon Lee</i>	
Fluvial Reservoir Architecture from Near-Surface 3D Seismic Data, Block B8/32, Gulf of Thailand	300
<i>Hathaiporn Samorn</i>	

Discrimination of Seismic vs. Hydrologic Triggers for Holocene Turbidites from Lake Tahoe, California and Nevada.....	301
<i>David A. Osleger, Alan Heyvaert, Joseph S. Stoner, Kenneth L. Verosub</i>	
The Depositional Web on the Fly River Floodplain, Papua New Guinea	302
<i>William E. Dietrich, Geoff Day, Joel C. Rowland</i>	
Non-Actualistic Carbonate Deposystems: Revising the Carbonate Factory-Depth Paradigm.....	303
<i>Giovanna Della Porta, Jeroen A.M. Kenter, Paul M. Harris</i>	
Experimental Study of Submarine Fan Deposition in a Fault-Constrained Extensional Setting	307
<i>Wiebke Athmer, Marinus Eric Donselaar, Remco M. Groenenberg, Stefan M. Luthi, Dimitrios Sokoutis, Ernst Willingshofer</i>	
Integration of Horizontal Well Log Data Into the Geological Interpretation: From Correlation to Mapping and Modeling	308
<i>Hugues M. Thevoux-Chabuel, Bruis Gianotten, S.K. Anand, Karen Hoffman</i>	
Outcrop and Seismic Reflection Images of the Devonian Reefs of the Canning Basin, Western Australia - Evolution and Inter-Action	309
<i>Peter G. Purcell</i>	
Reconstructing the Growth History of a Salt-Influenced Rift Basin to Predict Sandbody Distribution and Architecture, South Viking Graben, Northern North Sea	310
<i>Karla E. Kane, Eirik Larsen, Christopher A.L. Jackson, Anna Sofia Gregersson</i>	
Non-Cohesive, Mixed and Cohesive High-Density Turbidity Currents: Internal Flow Properties Inferred from Laboratory Experiments	311
<i>Rafael Manica, Jaco H. Baas, Ana Luiza de Oliveira Borges, Rogério Dornelles Maestri, Jeff Peakall, William. D. McCaffrey</i>	
Linking Seismic and Sub-Seismic Fault Predictions Using Laser Scanning of Outcrop Analogues	312
<i>Richard R. Jones, Dave Healy, Jonathan Imber, Ruth Wightman, Kenneth J.W. McCaffrey, Robert E. Holdsworth</i>	
Formation of Nitrogen-rich Accumulations in the Central European Basin. II: Fluid Evolution and Migration	317
<i>Volker Lüders, Peer Hoth, Birgit Plessen, David A. Banks</i>	
Normal Growth Fault Evolution in the Columbus Basin, Trinidad.....	318
<i>Ulrike A. Freitag, David J. Sanderson, Lidia Lonergan</i>	
Fault-Induced Bends on Schiehallion's North Channel.....	319
<i>Debora De Miranda</i>	
Diagenesis in Thick Ice-House Carbonate Cycles: Implications to Reservoir Development.....	320
<i>Arthur H. Saller</i>	
Contrasting Depositional Systems Within the Gas-prone Late Cretaceous Sequences of Western Pakistan: Influence of Regional and Local Tectonic Controls in a Pre-Collisional Margin Setting	321
<i>Abdul Salam Khan, Gilbert Kelling, Akhtar Mohammad Kassi, Mohammad Umar, Mohammad Afzal Kakar</i>	
Hydrothermal Dolomitization in Paleozoic Carbonates - Enhanced Fluid Flow and Foreland Basin Processes	322
<i>Denis Lavoie, Guoxiang Chi</i>	
Damage Zone Evolution in Coal Measures Strata From the Northumberland Basin, NE England	323
<i>Ruth Wightman, Jonathan Imber, Richard R. Jones, David Healy, Robert E. Holdsworth, Kenneth J.W. McCaffrey</i>	

Sequence Stratigraphic Framework and Geochemical Characterization of the Neoproterozoic Old Fort Point Formation, Windermere Supergroup, Southern Canadian Cordillera: Examination of a Deep-Water Source Rock Analogue from an Ancient Passive-Margin Setting	324
<i>Mark D. Smith, R.W.C. (Bill) Arnott, Gerry M. Ross</i>	
Palaeogeography and Coupled Ocean-Atmosphere Palaeo-Earth Systems Modelling: Application for the Prediction of Reservoir Facies in Frontier Basins	325
<i>J. P. Harris, R. Crossley, N. J. Stronach, T. Hudson, PJ Valdes, R. Proctor</i>	
Self Channelized Subaqueous Fans Emplaced by Turbidity Currents and Dilute Mudflows.....	326
<i>Alessandro Cantelli, Carlos Pirmez, Gary Parker</i>	
Initiation and Progradation of Clinoforms in a Sequence Stratigraphic Framework: The Expression of Parasequences in a Lower Slope to Shelf Edge Succession, Permian Karoo Basin, South Africa	327
<i>Richard J. Wild, Stephen S. Flint, David M. Hodgson</i>	
Reservoir-Scale Depositional Facies, Trends, and Controls on Sandstone Distribution of the Lower Atoka Group (“Bend Conglomerate”), Fort Worth Basin, Texas.....	328
<i>Tucker F. Hentz, Eric C. Potter, Muyiwa A. Adedeji</i>	
Origin of Eocene Depositional Sequences in the Sacramento Basin, California: The Interplay of Tectonics and Eustasy.....	329
<i>Raymond Sullivan, Morgan D. Sullivan</i>	
Lakes of the Jurassic Portland Formation, Newark Supergroup, Hartford Basin	335
<i>Simret Ghirmay Zerezghi, Elizabeth H. Gierlowski-Kordesch, Peter A. Drzewiecki</i>	
Physical Properties of Mudstones During Burial: A Comparison Between Laboratory Investigations and Well Logs from the Northern North Sea and Vøring Basins, Offshore Norway	336
<i>Nazmul Haque Mondol, Øyvind Marcussen, Christer B. Peltonen, Knut Bjørlykke, Jens Jæren</i>	
Connectivity from Pre-Production Data in a Deep Marine Turbidite Reservoir, Offshore Angola	337
<i>Glenn W. Davies, Tony Barwise, Mike D. Tothill</i>	
Geochemical Trends in Gas Quality in Kansas	338
<i>K. David Newell</i>	
Effective Economic Modeling and Portfolio Selection of Unconventional Resource Plays via Statistical Type Wells	339
<i>Jim Gouveia, Mark McLane, Gary Citron</i>	
Integrated Reservoir Characterization of A Carbonate Reservoir, Lumanda Field, China	340
<i>Ran Zhang, Xiangguang Su</i>	
Application of Shear Wave Anisotropy for Natural Fracture Detection in a Cased Well.....	341
<i>S. T. Grayson, Adam Donald, Tom Bratton, Romain Prioul, Monica Carlsen, Lee Swager</i>	
Covenant Oil Field, Central Utah Thrust Belt: Possible Harbinger of Future Discoveries.....	342
<i>Thomas C. Chidsey, Jr, Michael D. Laine, John P. Vrona, Douglas K. Strickland</i>	
New Techniques for New Discoveries – Results from the Lisbon Field Area, Paradox Basin, Utah	343
<i>David M. Seneschen, Thomas C. Chidsey, Jr, Craig D. Morgan, Michael D. Vanden Berg</i>	
Effect of Bioturbation in Low Permeability Gas Charged Reservoirs - a Case Study from the Upper Cretaceous Milk River Fm., Western Canada.....	344
<i>Jussi Hovikoski, George Pemberton, Murray Gingras, Ryan Lemiski, Robert Olexson</i>	
Burrow Cementation Trends in Shoreface Sediments of the Upper Cretaceous Horseshoe Canyon Formation, Alberta, Canada	345
<i>Marilyn E. Zorn, George Pemberton, Murray Gingras, Kurt O. Konhauser, Karlis Muehlenbachs</i>	

Oil & Gas Saturation of Upper Cretaceous Sediments in Southern Part of Orinoco Heavy Oil Belt (OHOB).....	346
Vitaly A. Bochkarev, Sr, Euridice J. Solórzano Sanchez, Alexander I. Grigorev, Raul Gataulin	
Petroleum Resource Potential of the Laptev Sea Shelf, Russia	347
T. R. Klett, F. Persits, G.F. Ulmishek	
Understanding Horizontal Well Logs to Improve the Geological Model While Drilling	348
Arve K. Thorsen, Jeremy C. "Jez" Lofts, Trond Gravem, Knut J. Rønning, Andrew J. Holden	
Sequence Stratigraphic and Depositional Facies Framework of the Lower Cretaceous McMurray Formation, Kearl Oil Sands Project, Alberta	354
Thomas Nardin, Joan Carter, Bob Falls, John Irish, Stan Stancliffe, Bogdan Varban, Nancy Wilson, Lidia Zabcic, Lynn Pratt	
Natural Gas Geochemistry in the Tarim Basin, China and Its Indication to Gas Filling History	355
Tongwei Zhang, Quanyou Liu, Jinxing Dai, Yongchun Tang	
Sequence Stratigraphy in Tectonically Active Basins-is it Possible? An Example from the Ridge Basin, Southern California	356
Morgan D. Sullivan, Kenneth D. Ehman	
Ridge Basin, Southern California: Why John Crowell Got It Right in the First Place.....	357
Raymond V. Ingersoll	
Permeability and Petrophysical Properties of Reconstituted Mudstones – An Experimental Study.....	358
Nazmul Haque Mondol, Knut Bjørlykke, Jens Jahren	
Visualizing the Geologic Evolution of the Southern Kenya Rift Through Remapping, Unit Correlation and Utilization of Age Dates	359
Alexandria L. Guth, James R. Wood	
Recognition and Significance of Bay-Head Delta Deposits in the Rock Record: Constructing More Detailed Estuarine Facies Models.....	360
B.A. Stanley, J.L. Aschoff	
3D Seismic Attribute Analysis of the Jurassic Entrada/Curtis Sandstone Play, Uinta Basin, Utah	361
Ryan J. O'Neal, R. William Keach, II, Thomas H. Morris, John H. McBride	
Improving Net-to-Gross Reservoir Estimation with Small-Scale Geological Modeling	362
Peter Phillips, Renjun Wen	
Kinetic Isotope Fractionation Modeling in Natural Gas Systems: A Novel Tool for the Quantitative Assessment of Gas Generation and Gas Typing	363
Geoffrey S. Ellis, Yongchun Tang, Ronald J. Hill	
Thin-Bed Reflectivity Inversion and Seismic Interpretation.....	364
Satinder Chopra, John P. Castagna	
Chalk Reservoir Properties Controlled by Composition, Age, Temperature, Burial Stress and Pore Pressure – Relationship to Rock Physical Properties.....	365
Ida Lykke Fabricius, Morten Leth Hjuler	
Synthesis of Phanerozoic Plate Tectonic Evolution of North America.....	366
Ronald C. Blakey	
Stratal Architecture of the Middle Part of the Morrison Formation, Utah: Implications for Downstream Base-Level Fluctuations	367
Riyad A. Ali-Adeeb, Timothy M. Demko	
Taxon-specific Biomarkers As Indicators of Geologic Age And Depositional Environment of Petroleum	368
Silvana M. Barbanti, J. Michael Moldowan	

Shale Gas Potential of the Mowry Shale in Wyoming Laramide Basins	369
<i>Ronald Surdam, Zunsheng Jiao, Ramsey Bentley, Rodney DeBruin</i>	
Geochemical Data Provide Insights into Oil Migration History of Elk Hills Field, California.....	370
<i>Robert L. Countryman, Judy Russell, Stephen A. Reid, John Zumberge</i>	
Nested Cyclicity in the Carboniferous Glacial Record from New South Wales, Australia	371
<i>Lauren P. Birgenheier, Christopher R. Fielding, Tracy D. Frank, Michael C. Rygel</i>	
Automation of Fracture Counts Using Volumetric Seismic Attributes	372
<i>Hao Guo, Kurt Marfurt</i>	
New Geochemical Technologies to Reduce The Risk in Gas Exploration	378
<i>J. Michael Moldowan, Zhibin Wei, Jeremy Dahl</i>	
Characterizing Distribution and Connectivity of Karst Networks in Carbonate Reservoirs.....	379
<i>Feng Shen, Shuiquan Li, Zhihua Li</i>	
Biomarkers And Diamondoids Improve Understanding of Oil Cracking, Mixing, And Geochemical Correlation on The North Slope, Alaska	380
<i>Ye Wang, J. Michael Moldowan, Kenneth J. Bird, Leslie B. Magooon, Kenneth E. Peters</i>	
Controls on Reservoir Performance and Recovery Factor in Fractured Gas Reservoirs: Lessons Learned from Giant Gas Fields	381
<i>Jack Allan, Rod Sloan, S. Qing Sun</i>	
Operational Protocols for Geological Carbon Storage and the Need for a New Hazard Characterization Approach	382
<i>S. Julio Friedmann</i>	
Contrasting Upper Devonian Foreslopes of the Canning Basin: Examples From Retrograding Frasnian and Prograding Famennian Platform Flanks	383
<i>Ted E. Playton, Charles Kerans, Phillip E. Playford</i>	
Coalbed Methane and CO₂ Sequestration Potential of the Westphalian (Carboniferous) Coal Seams from Onshore Carboniferous Basins of Nova Scotia, Eastern Canada	384
<i>Prasanta K. Mukhopadhyay (Muki), Paul J. Harvey, D. Jack MacDonald</i>	
Carbonate Mineralogy and Seawater through Time	385
<i>Steven M. Stanley</i>	
Neoproterozoic Carbon Isotopes of the Neoproterozoic Shuram and Wonoka Formations.....	386
<i>Erwan Le Guerroue, Martin Kennedy</i>	
Resource Potential of Fine-grained Cretaceous Source Rocks, Wattenberg Gas Field, Colorado	387
<i>Edmund R. Gustason, Colleen Sherry, Marshall Deacon</i>	
Tectonic Signatures in Stratigraphy: What Are They, and How Do We Best Apply Them?.....	388
<i>Jennifer L. Aschoff, Ron J. Steel</i>	
The Various Influences of Bioturbation on Reservoir Facies Quality	389
<i>Murray Gingras, S. George Pemberton, Carl A. Mendoza</i>	
Hypothesis Testing Using Fuzzy Logic Simulations to Constrain the Domains of the Stratigraphic Variables that Control Reservoir Distribution and Character.....	390
<i>Louis R. Bartek, III, Jeffery D. Warren</i>	
What's in a Channel? The Influence of Channel Morphology on Reservoir Compartmentalisation	391
<i>Tobias H.D. Payenberg</i>	

Meeting the Challenge of Reducing Large-scale CO₂ Emissions: an Example of Potential Geological CO₂ Storage from the Gippsland Basin, Australia	392
<i>Catherine M. Gibson-Poole, Lotte Svendsen, James Underschultz, Maxwell N. Watson, Jonathan Ennis-King, Peter J. Van Ruth, Emma J. Nelson, Richard F. Daniel, Yildiray Cinar</i>	
Substrate-Debrite-Turbidite Relationships: A Mechanical Boundary Layer Approach to Understand Emplacement Processes and Facies	393
<i>Robert W.H. Butler, Joris Eggenhuisen, Adriana Del Pino Sanchez, William McCaffrey</i>	
Reservoir-Scale Faulting Patterns in Transtensional Rift Zones: the Influence of Lithology and Pre-Existing Structures	394
<i>N. De Paola, R.E. Holdsworth, K.J.W. McCaffrey, R.R. Jones</i>	
Large Erosional Slope Channels and the New Challenge; Low Relief Sandy Channel Levees.....	395
<i>Mike Mayall</i>	
Towards a Quantitative Definition of Mechanical Units: New Techniques and Results from a Field Test Site.....	396
<i>Giovanni Bertotti, Nico J. Hardebol, Stefan M. Luthi, Jose Taal</i>	
Anatomy and Weather Induced Internal Heterogeneities of a Pleistocene Carbonate Coastal Dune (Rejiche Formation, Southeast Tunisia)	397
<i>Claude-Alain Hasler, Gregory Frébourg, Eric Davaud</i>	
Formation of Nitrogen-rich Gas Accumulations in the Central European Basin. I. The Significance of Fixed Ammonium in Palaeozoic Rocks	398
<i>Birgit Plessen, Peer Hoth, Volker Lüders</i>	
Sill-Dominated Clastic Intrusions Sourced from Adjacent Deep-Water Submarine Channels: Geometry and Emplacement Models (Isaac Formation, Neoproterozoic Windermere Supergroup, Southern Canadian Cordillera).....	399
<i>Ernesto Schwarz, R. William C. Arnott</i>	
Come Back on Facies Characteristic and Diversity in Carbonate Eolian Dunes	400
<i>Gregory Frébourg, Claude-Alain Hasler, Pierre Le Guern, Eric Davaud</i>	
Modeling Hydrocarbon Generation, Migration and Entrapment in Northern Oman	405
<i>Stephen A. Reid, Badar H. Al Barwani, William M. Fitchen</i>	
Quantifying the Spatio-Temporal Evolution of a Channel Complex from Offshore Angola: Testing the Equilibrium Profile Hypothesis	406
<i>Lorna J. Strachan, Chris Leppard, Rob L. Gawthorpe</i>	
Structural Analysis of Sandstone Dykes: Implications for Remobilisation of Deepwater Sand Reservoirs	407
<i>Vetel William, Jr, Cartwright Joe, Sr, Mario Vigorito</i>	
A Global Overview of the Temperature Gradients in Continental Basins and Their Relationship with Tectonic Settings	408
<i>Øyvind Steen, Paul Nadeau</i>	
Flow Transformations in Slumps: a Case Study from the Waitemata Basin, New Zealand.....	409
<i>Lorna J. Strachan</i>	
Interplay Between Tectonics and Sedimentation in a Deep-Water ‘Mini-Basin’ Setting, Tabernas, SE Spain	410
<i>Lucie Baudouy, Peter D.W. Haughton, John J. Walsh, Marco Patacci</i>	
Central Tunisia and Related Petroleum Systems	411
<i>Fayrouz Derbel Damak</i>	
Structural Styles In A Deformed Turbidite Basin - Champsaur SE France.....	412
<i>Robert W.H. Butler, Henry Lickorish, William D. McCaffrey, Jake Lockley, Jamie Vinnels</i>	

Structural Control on Stratigraphic Architecture of Rift-Initiation Fluvial and Tidal Deposits: Modelling the Nukhul Half-Graben, Suez Rift, Egypt.....	413
<i>Paul Wilson, Franklin Rarity, David Hodgetts, Rob L. Gawthorpe</i>	
Variation of the Shale Properties in the Offshore Equatorial Guinea and Its Impact on the Seismic AVO of the Reservoir Sands	414
<i>JC Wan, Michelle Thomas, John Graves, Jacques Leveille</i>	
Geothermal Convection: A Viable Mechanism for Early Burial Dolomitisation of Platform Carbonates.....	415
<i>Fiona F. Whitaker, Yitian Xiao, Corinne Haynes</i>	
How Successful Will the New Phase of Exploration Be If The Earth is Already a Pin-Cushion?	416
<i>Neil McMahon</i>	
Aragonite Lability During Very Early Burial and Its Effects on Sediment Composition, Budgets and Diagenetic Potentials.....	417
<i>V. Paul Wright, Lesley Cherns</i>	
Enabling the “Big Loop” – Ensuring Consistency of Geological and Reservoir Simulation Models	418
<i>Stephen J. Webb, Jeffrey S. Bayless, K. Neil B. Dunlop</i>	
Integrated Trap and Seal Evaluation of Complex Reservoir Systems	419
<i>J. Steven Davis, Francesco V. Corona, Peter J. Vrolijk, Bill R. James</i>	
Degradation of the Isoprenoid 2,6,10,14-Tetramethylpentadecane by a Denitrifying Microcosm	420
<i>Katherine S. Dawson, Jennifer Macalady</i>	
Stress and Fault Rock Controls on Fault Zone Hydrology, Coso Geothermal Field, CA	421
<i>Nicholas Davatzes, Stephen Hickman</i>	
Seal Risking and Petroleum Leakage - A Case Example from Taglu Gas/Condensate Field, Richards Island, Beaufort Mackenzie Delta, Northern Canada	422
<i>Olufemi A. Jokanola, Dale R. Issler, Andrew C. Aplin, Steve R. Larter, Kuncho D. Kurtev</i>	
Stratigraphic Framework and Petroleum Systems of the Guajira Basin, Offshore Northern Colombia	423
<i>Victor O. Ramirez</i>	
Integrating Geology and Velocity Data to Constrain Pressure Prediction in Foldbelts	424
<i>Brent A. Couzens-Schultz, Chris A. Hedlund</i>	
Origin of Early Overpressure in the Upper Devonian Catskill Delta Complex, Western New York State.....	425
<i>Gary G. Lash, David Blood</i>	
Fracture Characteristics of Folded Carbonates, Teton Anticline, Sawtooth Range, Montana	426
<i>Kajari Ghosh, Shankar Mitra</i>	
Reconstructing Orogenesis Using Single-Crystal Dating	427
<i>Doug Burbank</i>	
Organoclay Mineral Interactions: From Preservation to Oil Generation.....	428
<i>Thomas F. Bristow, Martin J. Kennedy, Arkadiusz Derkowsky</i>	
Reorientation Mechanisms of Phyllosilicate Minerals in Mudstones: Gulf of Mexico, North Sea, and Podhale Basin.....	429
<i>Ruarri J. Day-Stirrat, Andrew C. Aplin, Ben E. Van der Pluijm, Jan Srodon</i>	
Influence of Basin Dynamics on Upper Devonian Black Shale Deposition, Western New York State and Northwest Pennsylvania	430
<i>Gary G. Lash</i>	

Organic Geochemistry in the Genetic Age.....	431
<i>Alexander S. Bradley, Roger Summons</i>	
The Lower Tertiary Wilcox Trend in the Deepwater Gulf of Mexico	432
<i>David B. Rains, Larry Zarra, David Meyer</i>	
Geomorphological Development of a Deepwater Fan: Three-Dimensional Insights from Ultra-High Resolution Seismic Data, East Breaks Basin IV (Upper Fan), Offshore Texas, Gulf of Mexico	433
<i>Chris Edwards, David Hoyal, Benjamin Sheets, Paul Dunn</i>	
Reservoir Connectivity: Definitions, Strategies, and Applications	434
<i>John W. Snedden, Peter J. Vrolijk, Larry T. Sumpter, Mike L. Sweet, Kevin R. Barnes, Elijah White, M. Ellen Meurer</i>	
Fractured Basement: New Exploratory Target in La Concepción Field, Western Venezuela.....	435
<i>Jesus S. Porras, Sr, Elmer Ferro, Sr, Carla E. Castillo, Vanessa I. Machado, Luis A. Ochoa, Sr, Nelson E. Chirinos, Sr</i>	
Oligocene Stratigraphy and Depositional Systems in the Deepwater Gulf of Mexico	443
<i>Larry Zarra</i>	
Is the Cambrian Mount Simon a Regional “Blanket Sandstone” Across Ohio?	444
<i>Mark T. Baranowski</i>	
The Influence of Tectonics on Temporal and Spatial Variations in Sandbody Architecture; Cretaceous Gosau Basin, Western Calcareous Alps, Austria.....	445
<i>Douglas Paton, Mary Carr, Hugo Ortner, Robert Amerman, James Borer, Piret Plink-Bjorklund, David, R. Pyles, Bruce Trudgill, Richard J. Wild</i>	
Active Faulting, Gas Hydrate Formation, and the Growth of Seafloor Blisters in Santa Monica Basin, California	446
<i>Charles K. Paull, William R. Normark, William Ussler, III, David W. Caress, Rendy Keaten</i>	
Upper Devonian, Marine Impact-Generated Tsunami Beds in Inner Carbonate-Platform Settings, Central Great Basin.....	447
<i>Jared R. Morrow, Charles A. Sandberg</i>	
Clay Mineral Control of Organic Carbon Deposition in Marine Source Rocks.....	448
<i>Martin J. Kennedy, Arkadiusz Derkowsky, Thomas Bristow</i>	
3D Geospatial and Structural Modeling of a Structurally Complex Deep-Water Basin; The Gosau Group, Western Calcareous Alps Austria.....	449
<i>Douglas Paton, Bruce Trudgill, Hugo Ortner, Donald A. Medwedeff, Estelle Mortimer, Mary Carr, David, R. Pyles</i>	
Depositional Environments and Sequence Stratigraphy of the Lower Cretaceous Dakota Sandstone, SW Colorado	450
<i>hayet Serradji, Diane Kamola</i>	
Holocene Cyanobacterial Mats and Lime Muds: Links to Middle East Carbonate Source Rock Potential	451
<i>Christopher G. St. C. Kendall, Gene Shinn, Xavier Janson</i>	
Secular Change in Carbonate Facies From the Precambrian to the Phanerozoic	452
<i>Martin J. Kennedy</i>	
The Grand Tour - Pacific Margin Structural Styles - Washington to Southern California.....	453
<i>Kenneth A. Piper, Michael R. Brickey</i>	
Self-Organization in Carbonate Diagenesis	454
<i>David A. Budd, Anthony J. Park</i>	
USGS Circum-Arctic Resource Appraisal: Status Report and Initial Ranking of Arctic Sedimentary Basins	455
<i>Donald L. Gautier, L.P. White, Arthur Grantz</i>	

3D Facies Architecture of a Dryland Shadow Bar, Umbum Creek, Central Australia.....	456
<i>Nathan P. Gardiner, Carmen B.E. Krapf, Tobias Payenberg, Mark R. W. Reilly</i>	
Fold Geometry Model of Coyote Hills Segment of Puente Hills Blind-Thrust System Applied to Interpretation of Long-Term Water Level Data	457
<i>Greg T. Cranham, Christopher G.A. Ross, Steven P. Netto</i>	
Factors Controlling the Development and Maintenance of Fault Seals in Heterogeneous Sedimentary Rocks: A Case Study from the Moab Fault, Utah	458
<i>John G. Solum, Nicholas C. Davatzes, David A. Lockner</i>	
Inferred Reservoir Quality from Modern Fluvio-aeolian Sediments: Umbum Creek, Western Lake Eyre Basin, Central Australia	459
<i>Saju Menacherry, Tobias H. D. Payenberg, Simon. C Lang, William A. Heins</i>	
Geological Heterogeneity Modeling and Permeability Tensor Calculation for an Unstructured Grid Block	460
<i>Rahman M.Hassanpour, Oy Leuangthong</i>	
Using a Mass Balance Framework to Investigate Downstream Distributary Channel Narrowing in a Terminal Intraslope Mini Basin	466
<i>John Martin, Julian Clark, Andrea Fildani, Timothy McHargue, Frank Harris</i>	
Maturity Assessment Of Natural Gas In Tarim Basin: CH4/N2 Ratio As A Tool.....	467
<i>Quanyou Liu, Bernhard M. Krooss, Jinxing Dai, Wenhui Liu, Ralf Littke</i>	
The Mudstone-Dominated Caprock System of the CO2-Storage Site at Ketzin, Germany.....	468
<i>Andrea Förster, Niels Springer, Gerhard Beutler, Joachim Luckert, Ben Norden, Holger Lindgren</i>	
Building a European Independent.....	469
<i>Vincent Jon Hamilton</i>	
3-D Model Building and Geomechanically-Based Volume Restoration: The Next Generation Tool.....	470
<i>François Lepage, Thomas Laverne, Frantz Maerten, David Desmarest, Emmanuel Quetelard, Michael Palomas, Laurent Maerten</i>	
Physical Properties in Shales and Mudstones Versus Depth and their Implications for Basin Analysis.....	471
<i>Marcussen Øyvind, Christer B. Peltonen, Nazmul Haque Mondol, Knut Bjørlykke, Jens Jahren</i>	
A Sleeping Giant? Reinvigorating Exploration in the Pre- to Post-Rift Succession of the South Viking Graben, North Sea.....	472
<i>Eirik Larsen, Christopher Jackson, Karla Kane, Rachel Kieft, Anne Elise Tjemsland, Unni Sjursen, Sigmund Hanslien, Inga Wirowski, Ellen Marie Kollen, Helge Sognnes, Elisabeth Bjerkebæk, Anna Sofia Gregerson, Elisabeth Bøhle Sletten, Inger Winsvold, Rhoar</i>	
The Lourinha Fm, Lusitanian Basin, Portugal: Outcrop Analogue for Improved Reservoir Characterisation of the Statfjord Fm, Norwegian North Sea	473
<i>Kevin J. Keogh, Allard W. Martinius, Andrew Taylor, Stuart Gowland, Simon Leary, Carsten Elfenbein, Kjetil Nordahl, Eirik Vik, Silje Berg</i>	
Flow Dynamics of Submarine Channels: The Influence of Scale, Slope and Channel Geometry	474
<i>G. M. Keevil, Jeff Peakall, James Best</i>	
Elastic Models of Deformation in Nature: Why Shouldn't We Use The Present Day Fault Geometry?.....	475
<i>Stephen J. Dee, Brett Freeman, Graham Yielding, Peter Bretan</i>	
Integrating Fault Seal Techniques – Explaining The Duality in Fault Behaviour	476
<i>Stephen J. Dee, Graham Yielding, Herald Ligtenberg, Steven Losh, Amanda Pouwel, Brett Freeman, Peter Bretan</i>	

The Application of Capillary Based Migration Modelling to Fault Moderated Fill and Spill	477
<i>Stephen J. Dee, Brett Freeman, Dan Carruthers, Graham Yielding, Peter Bretan</i>	
An Overview of the Petroliferous Basins of the Siberian Arctic	478
<i>Sergey S. Drachev</i>	
Effects of Glacial Loading and Unloading on the Petroleum Systems of the South-Western Barents Sea as Revealed by Basin Modelling	479
<i>Rolando Di Primio, Andrew Cavanagh, Magdalena Scheck-Wenderoth, Brian Horsfield</i>	
Millennium Discovery - Dhirubhai, an Indian Jewel	480
<i>Ravi Bastia, R. J. Singh, Neeraj Sinha</i>	
New Petroleum Generation Model of the Middle Magdalena Basin, Colombia: Is The Luna Formation the Most Prolific Source Rock?	481
<i>Luis Miguel Bernardo, Jorge Luis Rubiano, Myriam Caro, Carlos Arturo Alfonso</i>	
Breaking the Rules: Seismic Reflection Data Applied to the Interpretation of Diagenetic Reaction Fronts at Kilometer to Basin Scale.....	482
<i>R. J. Davies, J. A. Cartwright, D. Meadows</i>	
Modelling a Mid-Slope Channel Complex from Outcrop Data: Example from Skeiding, the Laingsburg Karoo, South Africa	483
<i>Rufus L. Brunt, Jamie K. Pringle, David M. Hodgson, Christopher J. Haigh, Stephen S. Flint</i>	
Detailed Architecture of a Basin-Floor Sheet-Like Deposit: Neoproterozoic Upper Kaza Group, British Columbia, Canada	484
<i>Hugues Longuépée, Viktor Terlaky, W.R.C. Arnott</i>	
Onlap Relationships and Sedimentary Facies of the Champsaur Sandstones, SE France	485
<i>Jamie S. Vinnels, Bill McCaffrey, Rob Butler</i>	
Reservoir Modelling of Small-Scale Heterogeneities in a Channelized Turbidite Systems: Digital Outcrop Studies of the Ross Formation, Western Ireland	486
<i>Cathrine Pedersen, John Howell, Trond Lien, Ellinore Bjoerk Vipond, John Thurmond, Tore Løseth, Ole Martinsen</i>	
Understanding Heterogeneities in Turbidite Reservoirs Using Sedimentology and Production Data and the Implications for Hydrocarbon Recovery: Sleipner Field, Norwegian North Sea.....	488
<i>Nicholas Satur, Helga Hansen</i>	
An ED-Like Method for 3D Structural Restoration and QC of Planar Faulted Reservoirs.....	489
<i>Brett Freeman, Alan Gibbs, Graham Yielding, Stephen J. Dee, Alan Roberts, Peter Bretan</i>	
Leakage Risks Associated with Coal Sequestration in Some Areas of The Central Appalachians: Subsurface, Seismic and Geomechanical Evaluations.....	490
<i>Tom Wilson, Hema Siriwardane, Xiaochao Tang, Brian Connelly, Jamie Tallman</i>	
Morphological Modelling of Continental Slopes	496
<i>Neil Mitchell</i>	
Reservoir Petrofacies: a Tool for Quality Characterization and Prediction.....	497
<i>Luiz Fernando De Ros, Karin Goldberg</i>	
Assessment of Geologic CO₂ Sequestration at a Proposed FutureGen Site in Kentucky	503
<i>James A. Drahovzal, David C. Harris, Stephen F. Greb, Brandon C. Nuttall</i>	
Early Diagenetic Controls on Porosity Distribution in a Carbonate Mound	504
<i>Mark I. Russell, Tracy D. Frank, Miriam B. Andres</i>	
Methane Clathrate Destabilization in Equatorial Tidalites During Deglaciation.....	505
<i>Martin J. Kennedy, David D. Mrofka</i>	

Characterization of the Woodford Shale in Outcrop and Subsurface in Pontotoc and Coal Counties, Oklahoma	506
<i>Ryan Miller, Roger Young</i>	
Chayvo Field, Sakhalin Island, Russia: Identification of a Significant Oil Leg from 3-D Seismic and Execution of a World Class Extended Reach Drilling Program	507
<i>Ted Apotria, Randall Mathis, Rick J. Powell, Bridget Venner</i>	
Reservoir Characterization from Digital Outcrop Data: New techniques for Structural and Stratigraphic Modelling.....	508
<i>David Hodgetts, Rob Gawthorpe, Paul Wilson, Franklin Rarity, Emma Finch</i>	
The Composite Bed: A New Distinctive Feature of Hyperpycnal Deposition.....	509
<i>Carlos Zavala, Mariano Arcuri, Helena Gamero, Carmen Contreras</i>	
Interactions Between Strike-Slip And Thrust Tectonics: Controls on Sand Distributions Through Miocene Basin Arrays, Southern Italy	510
<i>Robert W.H. Butler, Stefano Mazzoli</i>	
Major, long-lived ENE-WSW lineaments in North Africa and their influence on Proterozoic and Palaeozoic Petroleum systems	511
<i>M. C. Raddadi, P. Markwick, S. Campbell</i>	
Tidal Channel To Bayhead Delta Couplets: Key To 4th Order Proximal Sequence Identification And Correlation, Upper Iles Formation, Colorado	512
<i>Carolina A. Gomez, Ron Steel</i>	
Influence of the Timing of Accommodation Space on the Sedimentary Record of the Earth's Climate.....	513
<i>David D. Mrofka, Martin Kennedy</i>	
Deciphering the Basin Evolution of the Beaufort-Mackenzie Basin, Canada, using 3D-Basin Modeling and Sequence Stratigraphy	514
<i>Karsten F. Kroeger, Rolando Di Primo, Robert Ondrak, Brian Horsfield</i>	
Relationship Between the Petroleum Potential and Structural Evolution of Coals	515
<i>Tiem VU Thi Anh, Richard Sykes, H. J. Schenk, Brian Horsfield</i>	
Modeling Heat and Mass Transfer Along the Muroto Transsect, Nankai Trough, Combining 2D-Basin and Structural Modeling and its Importance for the Deep Biosphere.....	516
<i>Robert Ondrak, Christoph Gaedicke, Brian Horsfield</i>	
Architecture and Seismic Geomorphology of Shelf-edge Deltas Along an Active Tectonic Margin: Eastern Offshore Trinidad and Venezuela.....	517
<i>Julie A. Maher, Lesli J. Wood</i>	
Analogs for Deep-Water Reservoirs - Confined-Channel Complexes in Mesozoic and Cenozoic Strata, California	518
<i>Kirt M. Campion, Anthony Sprague, Morgan D. Sullivan</i>	
Petroleum Systems of the Western Nile Delta: Lessons Learned from an Integrated Organic Geochemical and Basin Modelling Approach	519
<i>Claudius Vandré, Bernhard Cramer, Peter Gerling, Axel Kellner, Jutta Winsemann</i>	
Atmospheric Dust Archived in Pennsylvanian Carbonates of the Midland Basin, West Texas	520
<i>Sohini Sur, Gerilyn S. Soreghan</i>	
Correlation and Dating of Major Stratigraphic Surfaces Between Gondwana and Eurasia – the Impact of Sequence Stratigraphy	521
<i>Ben Kilner, Aimee Brown, Carola Hulka, Dave Kemp, Domenico Lodola, Mike Simmons, Owen Sutcliffe, Alice Thomas, Joanne Wyton</i>	
Characterizing and Modeling Fluvial Facies and Petrophysical Properties of a Pinedale Tight-Gas Reservoir in Greater Green River Basin, Wyoming	522
<i>Yuan Zee Ma, Terry Young, Earnest Gomez, Dennis Cox, Fabian Iwere</i>	

Onshore Alaska Peninsula Petroleum System Assessment: Preliminary Summary of Outcrop Studies of the Port Moller Area, 2006	523
<i>Robert J. Gillis, Rocky R. Reifenstuhl, Paul L. Decker, Andrea L. Strauch, Kenneth L. Helmold</i>	
Comparison of Probabilistic and Forward Modeling Workflow Approaches for Integrating 4D Seismic Into Reservoir Models: Application to a North Sea Reservoir	524
<i>Jef Caers, Scarlet S. Castro, Hilde C. Meisingset, Trond Hoye, Perrine Gomel, Eli Zachariassen</i>	
Seismic Stratigraphy of a Forearc Depositional System: Shelf-Margin Deltas to Basin Floor Fans, Northern San Joaquin Basin, California.....	530
<i>John M. Armentrout, David H. Suek, Denise H. Harrison, Paul J. Harrison, David B. Codding, Steve D. Jones, Scott Lewis, Steve Graham</i>	
High Resolution Geochemistry Technology (HRGT), Satellite Oil Slick Detection And Direct Geochemistry Methods Applied to Assess Exploration Risk In Deep and Ultra-Deep Waters of Gulf Of Mexico.....	531
<i>M.R. Mello</i>	
Physical Models of Sills and Cone-sheets Formed by Sand Injection	532
<i>Nuno E. T. Rodrigues, Peter R. Cobbold, Helge Loseth</i>	
Very Thick Massive Sandstone Bodies: Origin and Internal Architecture.....	533
<i>Mariano Arcuri, Carlos Zavala</i>	
Unconventional Shale Gas Potential of the Floyd Shale in the Black Warrior Basin, Northwestern Alabama	534
<i>Matthew W. Totten, Albert S. Oko</i>	
The ModelAssembler Community Modeling Environment (MA-CME): Expanded Access to Advanced Seismic Computation.....	535
<i>John N. Louie, Shawn Larsen</i>	
Tidal Rhythmites and Their Implications in Surmising Earth-Moon Dynamics.....	536
<i>Christopher Lynn Coughenour</i>	
Silurian Shelf Sequences, Southern Wabash Platform, Indiana, U.S.A	537
<i>Alison Spengler, Fred Read</i>	
Measuring Autogenic Noise Superimposed on Idealized, Long-Term Distributary Dynamics	538
<i>Benjamin Sheets, David Hoyal, Tao Sun</i>	
Evaluation of Stratigraphic Elements on Fluid Flow – An Experiment Based on Deep-Water Slope Channels in the Capistrano Formation (Miocene), California	539
<i>Jonathan Stewart, Ben Fischer, Colin Lytle, Kirt Campion, Anthony Sprague</i>	
Spatial and Temporal Evolution of Densimetric Froude Number in Deep Water Distributive Systems.....	540
<i>David Hoyal, Benjamin Sheets</i>	
Forward Sediment Modeling of Carbonate Platform Growth and Demise, East Java Basin: Example North Madura.....	541
<i>Tina M. Hughes, Toni Simo, John Bova, Amy Ruf, Fiona Whitaker</i>	
Modern Analogs: Facies Modeling of Isolated, Carbonate Platform with Remote Sensing	542
<i>Melissa Hicks, Nils Andresen, Kelley Steffen, Shawn Fullmer, Stephen Kaczmarek</i>	
Paleogeomorphic Record of the Green River Formation: A New Perspective on an Old Problem.....	543
<i>Alan R. Carroll</i>	
Petroleum Systems of the Sacramento Basin and Adjacent Area, California.....	544
<i>Leslie B. Magooon, Allegra Hosford Scheirer, Paul G. Lillis</i>	

Distribution of Hyperpycnal Deposits in the Delta Front of Cretaceous Panther Tongue Delta, Utah, USA.....	545
<i>Cornel Olariu, Ron J. Steel</i>	
Sedimentology, Ichnology, and Depositional History of the Falher D Member, West-Central Alberta, Canada – Presence of a Wave-dominated Delta	546
<i>Trevor Hoffman, Murray Gingras, S. George Pemberton</i>	
Neogene Evolution of a Confined Upper Slope Canyon System with Emphasis on Canyon Fill Architecture, Offshore Equatorial Guinea	547
<i>Zane Jobe, Jim Hewlett</i>	
Foreland Basin Axis Migration Documented by Deep-Water Conglomeratic Channel Deposits, Southern Chile	548
<i>Anne Bernhardt, Zane Jobe, Donald R. Lowe</i>	
Detailed Architectural Analysis of Overbank Deposits Associated With a Deep-Marine Channel-Levee Complex, Lower Isaac Formation (Windermere Supergroup) South Canadian Cordillera	549
<i>Z.A. Khan, Lilian L. Navarro, R. William C. Arnott</i>	
Autocyclic Processes and Resultant Stratigraphy of Deepwater Fan Experiments.....	550
<i>Roger B. Bloch, David C.J.D Hoyal, Benjamin A. Sheets, Christopher M. Edwards, Vitor Abreu</i>	
Did Strike-Slip or Tectonic Inversion Control Trap Formation and Gas Prospectivity in the UK Southern North Sea?	551
<i>John R. Underhill</i>	
Geomorphology and Stratigraphic Evolution of the Han River Delta	552
<i>Robert W. Dalrymple, Kyungsik Choi, JaeHwa Jin, Donald I. Cummings</i>	
Renewable Energy and Alternate Use on the Outer Continental Shelf: Status of the Development of a New Program under the Authority of the Minerals Management Service	553
<i>Maurice Hill</i>	
Hyperpycnal-Flow Evolution from the Shelf Edge to the Lower Slope as Evidenced by Slope-Channel Deposits in the Tertiary Central Basin of Spitsbergen	554
<i>Andrew L. Petter, Piret Plink-Bjorklund, Ron Steel</i>	
Biodegradation of Hydrocarbons Associated with Subsurface Reservoirs and Natural Seepage	555
<i>David L. Valentine, George D. Wardlaw, Franklin S. Kinnaman, Susan Mau, Christopher M. Reddy, Robert K. Nelson, J. Samuel Arey</i>	
Gas Hydrate Resource Potential	556
<i>Robert B. Hunter, Scott A. Digert, Scott J. Wilson, Timothy Collett, Ray Boswell</i>	
The Structure and Stratigraphy of Deepwater Sarawak, Malaysia: Implications for the Tectonic Evolution of the NW Borneo Continental Margin	557
<i>Mazlan Madon, Kim Cheng Ly, Robert Wong</i>	
One Direct Indicator for Reservoir in Fractured Carbonate	558
<i>Guangjun Chen, Sr, Mohamed Redal, Jianguo Zhu, Wei Meng</i>	
Temperature Sensitivity of Wave Velocities in Shales: Application for 4D Time-Lapse Seismic.....	562
<i>Rafiq Manafov, Rune M. Holt, Erling Fjær</i>	
Structural Styles in Central and Eastern Saudi Arabia	563
<i>Hongbin Xiao, Andrew Knowlton, Martin Rademakers, Douglas Cook</i>	
Characteristics of Tidal Sand Bars in the Gulf of Khambhat using Satellite Images and Field Mapping, Western India	564
<i>Sourav Saha, Anupam Ghosh, Stuart Burley, Santanu Banerjee, Pratul Kumar Saraswati</i>	

Turbidite-Debrite Couplets in Deep Sea Fan Systems – Evidence for Flow Partitioning and Transformation from Subsurface and Outcrop Examples	570
<i>Christopher E. Davis, Peter Haughton, William McCaffrey</i>	
Modern Turbidite Systems Along the Northern California Continental Margin and Their Holocene Earthquake Triggering History from the San Andreas Fault.....	571
<i>C. Hans Nelson, Chris Goldfinger, Julia Gutierrez Pastor, Ann Morey Ross, Eugene Karabanov</i>	
Sediment-Microbe Interactions in Permeable Sediments at Hydrocarbon Seeps in the Santa Barbara Channel, California	572
<i>Tina Treude, Wiebke Ziebis</i>	
Integrating Digital Outcrop Data and Field Geology for Modelling Multi-scale Heterogeneities in Complex Tidal Facies: Nukhul Half-graben, Gulf of Suez, Egypt	573
<i>Frank Rarity, David Hodgetts, Paul Wilson, Rob Gawthorpe</i>	
Sequence Stratigraphic Organization of Architectural Elements	574
<i>Stephen Flint, David Hodgson</i>	
Procedures for Lithology Characterization and Probabilistic Upscaling (Curve "Blocking") Using Petrophysical and Core Data	575
<i>Eric Eslinger</i>	
Shale Gas Reservoir Systems: Insights from North of the Border.....	576
<i>Daniel John Kerridge Ross, R. Marc Bustin</i>	
Multi-scale Comparison of Proximal Lobe and Channel-Fill Deposits on a Prograding Deep-Marine Slope, Tres Pasos Formation, Cerro Divisadero, Chile	577
<i>Brian W. Romans, Stephen M. Hubbard</i>	
Fault Propagation Folding on the Central Basin Platform, West Texas.....	578
<i>Charles H. Blumentritt, Kurt J. Marfurt, Michael Murphy</i>	
The Politics of Paleoclimate Data Access	579
<i>Walter S. Snyder, Kerstin Lehnert</i>	
Paleozoic-Mesozoic Chronostratigraphic Framework for Deep-time Paleoclimate Research	580
<i>Walter S. Snyder, Vladimir Davydov, Mark D. Schmitz</i>	
New Exploration Perspectives on the Jurassic of Southern Western Siberia	581
<i>Sergei Hafizov, Vladimir Shimansky, George Pemberton, John Dolson, Richard Herbert</i>	
The Modern Continental Slope Morphologies And Kinematics in The Ulleung Basin, Offshore Korea	582
<i>Byeonggoo Choi, Suyoung Choi, Hun Jeong, Ilsoo Kim, Yongsu Lim, Donghyun Lim, Seoungcheol Lee</i>	
The Role of Saturation in Controlling CaCO₃ Mineralogy, Crystal Morphology, and Carbonate Fabrics: New Insights Into an Unsolved Enigma	583
<i>Vionette De Choudens, Luis Gonzalez, Jennifer Roberts</i>	
Numerical Simulation and Model for Channel Levee Formation	584
<i>Vineet Birman, Brendon Hall, Nicolas Guillaume, Eckart Meiburg, Ben Kneller</i>	
Collapse of Submarine Channel Levees; Examples from Outcrop and Subsurface, and Reservoir Implications	585
<i>Ben Kneller, Mason Dykstra, Philip Thompson</i>	
Petroleum Systems of the Mumbai Offshore Basin, India.....	586
<i>Basant Giri Goswami, Harvir Singh, A. K. Bhatnagar, A. K. Sinha, Ram Raj Singh</i>	
3-D Structural Model of Structures along the Western Margin of the Bighorn Basin, Wyoming	592
<i>Subhotosh Banerjee, Shankar Mitra</i>	
The Ups and Downs of the Ancestral Rocky Mountains	593
<i>G.S. Soreghan, M. Charles Gilbert, G. Randy Keller</i>	

Predicting Petrophysical Properties Using 3D Image Data	594
<i>Joanne T. Fredrich, Matthew M. Haney, Joshua A. White</i>	
Diagenetic Origins of Dolomitized Reservoirs and Limestone Tombstones in the Madison Limestone, Northern U.S. Rockies	595
<i>David Katz, Peter Swart, Gregor Eberli, Matthew Buoniconti, Langhorne Smith</i>	
Recognising Remobilised Deepwater Reservoir Sands: An Example from The Britannia Sandstone Formation, UK North Sea Sector	596
<i>Joris Eggenhuisen, William McCaffrey, Peter Haughton, William Hakes, Rob Butler</i>	
Investigation of Previously Unpublished Igneous Unit(s) in the Los Angeles Basin California: Inglewood Oil Field	597
<i>Michael W. Ryan, Dalton Lockman, James R. Boles</i>	
Basal Pressure in Turbidity Currents: Experimental Data on Causes for Substrate Deformation	598
<i>Joris Eggenhuisen, William McCaffrey</i>	
Fault Patterns and Connectivity along Extensional Oblique and Lateral Ramps: Insights from Experimental Models	599
<i>Shamik Bose, Shankar Mitra</i>	
Base-of-Flow Processes During Turbidity Currents, Observations from The Late Oligocene Sand-Rich Macigno Formation in Italy	600
<i>Joris Eggenhuisen, William McCaffrey, Rob Butler, Peter Haughton</i>	
Geologic Modeling of Frasnian and Famennian Carbonate Platforms, Canning Basin, Western Australia	601
<i>Ned Frost</i>	
On the Nature of Delta Distributary Channel Fill	602
<i>Douglas Edmonds, Benjamin Sheets, David Hoyal, Roger Bloch</i>	
New Aspects Concerning Hydrodynamics of Turbidity Currents Based on Physical Experiments	603
<i>Antonio Cosme Del Rey, Rafael Manica, Rogerio Maestri, Ana Luiza de Oliveira Borges, Adriano Roessler Viana</i>	
Discriminating Depositional Habitat and Provenance of Mudrock Through Use of Spectral Gamma Ray	604
<i>Stanley T. Paxton, Anna M. Cruse, James O. Puckette, Michael Aufill</i>	
Basin Stratigraphic Response to Variable Fault Geometry and Tectonic Kinematics: An Investigation of Extensional Basin Development	605
<i>Todd M. Engelder, Mark Person, John Swenson, Brad Ritts</i>	
Design and Execution of Horizontal Wells in Gas Shales Using Borehole Images and Geochemical Data	606
<i>Camron K. Miller, Rick Lewis, Keith Bartenhagen</i>	
Regional Fluid Flow of the North Slope Foreland Basin, Alaska	607
<i>Anna M. Belanger, Dr. Jeffrey S. Hanor, Dr. Jeffrey A. Nunn</i>	
On the Potential to Apply Sequence Stratigraphic Concepts to Martian Strata	608
<i>Juergen Schieber</i>	
The Sedimentology of Milk - Studying Deposition and Transport Modes of Moving Clay Suspensions	609
<i>Juergen Schieber, John B. Southard, Kevin G. Thaisen</i>	
Quantitative Analysis of Relay Ramp Evolution and Breaching: Implications for Structural Interpretation of Linked Fault Arrays	610
<i>Bruce Trudgill</i>	
Paleo-redox Conditions during Deposition of the Devonian New Albany Shale (Illinois Basin) and Correlative Black Shales in the Eastern US: Multiple Perspectives from Geochemistry, Paleoecology, and Petrography	611
<i>Ovidiu Remus Lazar, Juergen Schieber</i>	

Capillary Sealing Mechanism in the Southern Anadarko Basin, Oklahoma, USA	612
<i>Dean M. Walcott, Madisen Nnaoji, Constatin Cranganu</i>	
Petrophysics Analysis of Shu'aiba Reservoir, onshore-oil field United Arab Emirates.....	613
<i>Surassawadee Tanprasat, Neil Hurley</i>	
Organic Production by Iron Microbial Mats – Implications for Volcaniclastic Successions and Hydrocarbons on Mars	614
<i>Juergen Schieber</i>	
Intrachannel Architecture, Channel-Margin Geometry and Evolution of a Deep-Water Slope Channel-Levee Complex: Isaac Channel 3, Neoproterozoic Windermere Supergroup, Canada.....	615
<i>Lilian L. Navarro, Zishann A. Khan, R. William C. Arnott</i>	
Outcrop Characterization of a Deep-Water Channel Complex Set: Isaac Channel 1, Neoproterozoic Isaac Formation, Windermere Supergroup, Canada	616
<i>Lilian L. Navarro, R. William C. Arnott</i>	
Sedimentologic Characterization of the Misoa Formation, Integrating Surface – Subsurface Data.....	617
<i>José A. Margotta, Ramon A. Rondon, Yoleidy Hernandez, Carlos J. Saavedra</i>	
Rock Physics Modeling and Seismic Attributes of Carbonate Rocks in the Nesson Anticline, North Dakota	618
<i>Kaushik Bandyopadhyay, Tapan Mukerji, Gary Mavko, Charlie West</i>	
Seismic Potential of the San Clemente Island Region	619
<i>Joseph M. Saenz, Frank E. Denison, James E. Slosson</i>	
Sedimentology, Ichnology, and Depositional History of the Contact Between the Triassic Montney and Doig Formations in West-Central Alberta, Canada – Presence of an Unconformity Bound Sand Wedge.....	620
<i>Jon T. LaMothe, M.K. Gingras, S.G. Pemberton</i>	
A New Regional Assessment of The Petroleum Potential in Ethiopia	621
<i>Ketsela Tadesse, G. R. Keller</i>	
Petroleum Geochemistry of the Cauvery Basin, India	622
<i>Harvir Singh, Basant Giri Goswami, S. Pahari, I.V.S.V. Prasad, Ram Raj Singh</i>	
Predicting the Temperature of Hydrocarbon Expulsion from oil Asphaltene Kinetics and Oil Source Correlation:a Case Study of South Cambay Basin, India	623
<i>Shishir Kant Saxena, R. K. Saxena, Rashmi Anand, K. P. Singh, Harvir Singh, Ram Raj Singh</i>	
Petroleum and Source Rock Geochemistry of Tripura-Cachar Region of Assam-Arakan Basin, India	629
<i>A. K. Mittal, M. Jha, R. S. Bisht, D.S. Rawat, H.C. Pande, I.V.S.V. Prasad, S. Varshney, A. Raina, R.R. Singh</i>	
Seismic Characterization And Emplacement - Process Modelling Of the Volund 0.5 Km³ Sandstone Laccolith, Offshore Norway	630
<i>Ewa Paulina Szarawarska, Mads Huuse, Andrew Hurst, Ravi Arkalgud</i>	
Mackenzie Delta (Canada): Influence of Depositional History on Organic Facies Variations and Petroleum Formation Predictions	631
<i>Anne Saison, V. Dieckmann, B. Horsfield</i>	
Early Karstic Porosity Development or Late Burial Related Corrosion in a Middle East Giant Field (Natih Fm., Oman): Implications for Reservoir Properties Distribution	632
<i>Conxita Taberner, Volker C. Vahrenkamp, Cathy Hollis, Mateu Esteban, Alia Bahry, M. Rejas, Mike Caputi, Abhijit Mookerjee, Yaduo Huang, Peter Eadington</i>	
3-D Restoration Using Elasticity and/or Elastic Relaxation	633
<i>Isabelle C. Moretti, Marc O. Titeux</i>	

Quantitative Estimate of Residual and Palaeo Oil Columns to Trace Oil Migration and Accumulation: Case Studies from Panyu Uplift in the Pearl River Mouth Basin, South China Sea.....	634
<i>Feiyu Wang, Yulei Shi, Huasen Zeng, Keyu Liu, Hesheng Shi</i>	
Structural Interpretation Using a Three Dimensional Mass-Spring Restoration.....	635
<i>J. Ryan Shackleton, Graham Seed, William Sassi, Serena Jones, John Grocott</i>	
Long-Term Delivery and Distribution of Sediments from River Catchments to Basin Floor Fans.....	636
<i>Tor O. Sømme, William Helland-Hansen, Ole J. Martinsen, John B. Thurmond</i>	
Quantifying Reservoir Uncertainty in Highly-Compacted Depositional Environments Using Reflectivity Models from Monte Carlo Simulations.....	637
<i>D. Alan Fuqua</i>	
Facies Architecture and Reservoir Prediction in Ancient Glaciogenic Sediments: A Case Study using Integrated Outcrop and Subsurface Studies of the Grant Group (Canning Basin, West Australia).....	638
<i>Joe R. Martin, Jonathan Redfern, Brian P. J. Williams</i>	
Unraveling a Carbonate System through Chrono-Stratigraphic Horizon Tracking and Wheeler Transformation	639
<i>Kirstin A. McBeath, Geert De Bruin, Paul De Groot</i>	
Complex Karst-controlled Reservoirs in Paleozoic Limestone of the CIS, Kazakhstan an Europe; Identification and Prediction for Distribution of the Reservoir Characteristics	640
<i>Philippe A. Lapointe, Arnaud Meyer</i>	
Petroleum and Source Rock Geochemistry of Krishna-Godavari Basin, India: A Case Study.....	641
<i>I.V.S.V. Prasad, M. Varshney, A.K.S. Madhavan, B.S. Negi, T. Chand, S. Pahari, A.K. Sinha, H. Singh, A.K. Mittal, B.G. Goswami, R.R. Singh</i>	
From Alluvial Fans to Deltas: the Sedimentary history of Mars as Seen from the HRSC (Mars Express)	642
<i>Gian Gabriele Ori, Gerahrd Neukum, Monica Pondrelli, Ernst Hauber</i>	
Development of Reservoir Models for Sandy Braided Rivers Using Modern Analogues	643
<i>Ian A. Lunt, Greg H. Sambrook Smith, Phil J. Ashworth, James L. Best, John S. Bridge, Stuart N. Lane, Chris J. Simpson, Rob E. Thomas</i>	
Alternated Low and High-Density Turbidity Physical Experiments Highlighting Sediment Wave Formation Processes.....	644
<i>Rafael Manica, Antonio Cosme Del Rey, Richard Eduard Ducker, Rogério Dornelles Maestri, Ana Luiza de Oliveira Borges</i>	
A Skeleton-based Multiple Point Statistics for Reservoir Stochastic Modeling	645
<i>Yan-Shu Yin</i>	

Volume 2

Seals or Flow Conduits? How Faults Control Migration and Accumulation in the Shengli Oilfield, China	650
<i>Carolyn Lampe, Guoqi Song, Liangzi Cong</i>	
Integrated Microfossil Characterization of the Neogene Sand Members of Offshore Norway	651
<i>Erik D. Anthonissen</i>	
Dynamic Characterization and Modelling of Polygonal Fracturing in a Carbonate Field in Abu Dhabi.....	652
<i>Francois Gouth, Laure Moen-Maurel, Sabah Karim Aziz</i>	

Neoproterozoic Paleogeography and Paleoclimate Implications from the Red Pine Shale, Uinta Mountains, Utah	653
<i>Caroline A. Myer, Carol M. Dehler</i>	
Fracture Orientation from P Wave Seismic Data Using Volumetric Curvature, Silo Field, Wyoming.....	654
<i>Charles H. Blumentritt, Kurtt J. Marfurt, Michael Murphy</i>	
Timing the Bolivian Subandean Foreland Evolution: Discriminating Between Tectonics and Climate Forcing.....	660
<i>Cornelius Eji Uba, Axel K. Schmitt, Manfred R. Strecker</i>	
3D Geocellular Modelling and Reservoir Properties Quantification: A Case Study of "X-Field", Niger Delta, Nigeria.....	661
<i>F.O Bamidele, Olugbenga A. Ehinola, Adelola Adesida</i>	
Using Simple Validation Techniques to Minimise Uncertainty When Assessing Multiple Structural Interpretations	666
<i>Clare E. Bond, Alan Gibbs, Zoe K. Shipton, Serena Jones</i>	
Active Salt Tectonics and Its Effect on the Internal Architecture and Connectivity Between Minibasins Near the Sigsbee Escarpment, Gulf of Mexico.....	667
<i>Patricia Montoya, Michael R. Hudec</i>	
Diagenesis and Porosity Evolution of the Flathead Sandstone (Middle Cambrian), Wyoming and Montana.....	668
<i>Aysen Ozkan, Earle F. McBride</i>	
3D Field Modelling of Algerian Glacial Ordovician Reservoirs.....	669
<i>Léna Dauphin, Guy Desaubliaux, Angélique Martin, Laurent Escaré, Eric Portier</i>	
Generation of a Volume of Reservoir Geological Properties from 3D Seismic and Well Data	675
<i>Andres G. Espeso, Ann Marie Mezones, Asdrubal Bernal</i>	
The Hydrocarbon Prospective of the Eastern Black Sea	676
<i>Stephen J. Vincent, Andrew C. Morton, Andrew Carter, Li Guo, Samantha Gibbs, Samuel P. Rice, Nada Kozman</i>	
High Resolution Numerical Simulations of Bidisperse Particle-Driven Gravity Currents	677
<i>James R. Hoyes, Lionel Elliot, Derek B. Ingham, William D. McCaffrey, Jeff Peakall, Mohammed Pourkashanian</i>	
Study of Sediment Waves Formation and Morphology in Turbidite Systems from Physical Modelling Perspective	678
<i>Antonio Cosme Del Rey, Rafael Manica, Rogério Dornelles Maestri, Ana Luiza de Oliveira Borges, Adriano R. Viana</i>	
3D Seismic Characterisation of an Array of Blind Normal Faults in the Levant Basin, Eastern Mediterranean	679
<i>Catherine Baudon, Joe Cartwright</i>	
Giant Depressions above Submarine Channels Caused by Flow Activity on The Brazilian Continental Margin	680
<i>Paivi Heinio, Richard Davies</i>	
Geomorphologic Delineation of Deepwater Hydrocarbon Reservoirs with Pre-Stack Seismic Inversion.....	681
<i>Arturo J. Contreras, Torres-Verdin Carlos, William L. Fisher, William E. Galloway</i>	
The United Nations Framework Classification for Energy Reserves and Resources	682
<i>Thomas S. Ahlbrandt</i>	
Recent Volcanic and Fluvial Activity in the Region of Harmakhis Vallis, Mars.....	683
<i>Mihaela Glamocilja, Gian Gabriele Ori, Lucia Marinangeli, Goro Komatsu, Jouko Raitala</i>	

Anatomy and Stratigraphic Development of a Lower Slope to Base-of-Slope Siliciclastic Wedge from the Tanqua Depocentre, SW Karoo Basin, South Africa.....	684
<i>W. Van der Merwe, David Hodgson, Richard Wild, De Ville Wickens, Stephen Flint</i>	
Early vs. Late Carbonate Reservoir Porosity: a Paradigm Shift	685
<i>Mateu Esteban, C. Taberner</i>	
Three-dimensional Geological Modeling of the Morichal Member, Oficina Formation, in the Central Section of the Jobo Field. Eastern Venezuela	686
<i>Ann Marie Mezones</i>	
Three-Dimensional Reconstruction of the Pleistocene Deltas of the Gulf of Corinth (Greece).....	687
<i>Gian Gabriele Ori</i>	
Sediment Transport Pathways and Provenance; Identification of Reservoir-Quality Sandstones in the Caspian-Black Sea Region	688
<i>Stephen J. Vincent, Andrew C. Morton, Fiona Hyden, Clare E. Davies, Irene Gómez-Pérez, Mark B. Allen</i>	
Shelf Sandstones or Wave-dominated Deltas: A Comparison of the Nuiqsut and Nechelik Formations, North Slope Alaska.....	689
<i>Beverly A. Burns, James MacEachern, David B. Bannan, Douglas G. Knock, Robert J. Kunemund, Justine Boccanera, Wayne J. Campaign</i>	
New Methods in Stratigraphic Correlation	690
<i>Doreena Patrick, Paul N. Weglein, James E. Martin</i>	
A New Model for Development of River-Dominated Deltas	691
<i>Robert William Wellner, David Hoyal, Ben Sheets, Tao Sun, John Van Wagoner, Anthony Sprague</i>	
Definition of a Fault Permeability Predictor from Outcrop Studies of a Faulted Sand/Clay Sequence, Taranaki, New Zealand.....	692
<i>J.J. Walsh, C. Childs, T. Manzocchi, J. Strand, A. Nicol, M. Tomasso, M. Schoepfer</i>	
Cyclic Stratigraphy and Conodont Biostratigraphy of the Barnett Shale from the Type Locality of the Chappel Limestone and near-Surface Cores from the Llano Uplift	693
<i>D. R. Boardman, II, J. Puckette, B. Coffey, E. Gerding, P. Kamman, N. Aryal, M. Singh, A. Rihm</i>	
Cellular Automata Modeling of Turbidity Currents Deposits	694
<i>Tristan Salles, Simon Lopez, Marie-Christine Cacas, Rémi Eschard, Euzen Tristan, Vanessa Teles, Thierry Mulder</i>	
Seismic Geomorphology and Evolution of a Submarine Channel System: Western Nile Delta Slope, Egypt.....	695
<i>Vicky Catterall, Jonathan Redfern, Dorthe Moeller Hansen, Rob Gawthorpe</i>	
Integrated CHIRP and Water Bottom Sediment Sampling Across a Modern Carbonate Platform, Turks and Caicos, BWI	696
<i>Amy S. Ruf, Jason W. Eleson, Bryan Motzel, Timothy S. Dulaney, Gregory S. Benson, Stephen Kaczmarek, Lisa K. Meeks, Sean A. Guidry, Eugene C. Rankey, Stacy L. Reeder, Humberto Guarin, James R. Markello, Jim Weber</i>	
The Role of Faults in Turbidite Compartmentalization at the Bed-scale	697
<i>Tom Manzocchi, John J. Walsh, Mark Tomasso, Julian Strand, Conrad Childs, Peter Haughton</i>	
Geochemical Controls on Petrophysical Responses and Properties	698
<i>Sarah Davies, Tim Brewer, Joe Macquaker, Mike Lovell</i>	
Kinetics of Pure and Mixed CO₂-CH₄ Gas Adsorption on Crushed and Sieved Coal from the Black Warrior Basin, Westcentral Alabama	699
<i>James G. Blencoe, Michael T. Naney, David R. Cole, Jack Pashin, Richard E. Carroll</i>	
The Origin of the "Silverpit Crater" - the Case for Salt Withdrawal	700
<i>Zana K. Conway, John R. Underhill</i>	

Process Change from the Inner to Outer Reaches of the Western Interior Clastic Platform: Examples from SW Wyoming, USA.....	701
<i>Carlos A. Uroza, Ronald J. Steel</i>	
Seismic Modelling of Basin Margin Clinoforms: Norwegian North Sea and Other Examples	702
<i>Kathryn L. Canner, Emma Finch, Steve M. Corfield, Rob L. Gawthorpe, Steen Petersen</i>	
Effects of Smectite-Illite Reactions in Shales on Sandstone Diagensis, Gulf Coast.....	703
<i>Anthony J. Park</i>	
Fluvial Sand-Body Dimensions and Architecture, Neslen and Lower Farrer Formations (Campanian), Lower Sego Canyon, Utah.....	704
<i>Rex D. Cole</i>	
Status and Future of Biofuels.....	705
<i>Bruce W. Ferguson</i>	
Can Dissolved Material Replace Cohesive Sediment in Turbidity Current Physical Modelling? Experimental Inferences Based on Cohesive, Non-Cohesive and Mixed Low-Density Flows	706
<i>Richard Eduard Ducker, Rafael Manica, Ana Luiza de Oliveira Borges, Rogério Dornelles Maestri</i>	
Polygonal Faulting/Fracturing : Characterization (Seismic, Well Data) from a Carbonate Field, Abu Dhabi	707
<i>Laure Moen-Maurel, Frederic Jeanjean, Francois Gouth, Sabah K. Aziz</i>	
Controls on the Geometry and Internal Architecture of Submarine Fan Elements, Tanqua Depocentre, Karoo Basin, South Africa: Insights from Process-Based Modeling	708
<i>Remco M. Groenenberg, David M. Hodgson, Stefan M. Luthi</i>	
Postcards from the Edge: The Athabasca Oil Sands in Alberta, Canada, at It's Northeastern Limit	709
<i>Frances J. Hein, Darrell K. Cotterill, Mike Berhane</i>	
The National Geological and Geophysical Data Preservation Program: A "Sustainable" Resource to Empower the Energy Research and Development Community	710
<i>John C. Steinmetz, Tamara L. Dickinson, Linda C. Gundersen, Brenda S. Pierce</i>	
Facies Variability of Tidal Bar Occurrences in a Tidal-Fluvial Transition Zone, Ogeechee Estuary, Georgia, U.S.A	711
<i>Sarah C. Gunn, Robert Dalrymple, S. George Pemberton, Murray K. Gingras</i>	
Coupling 3D Numerical Modelling of Contractual Structures, Sedimentation and River Network Evolution: The Stratigraphic and Geomorphic Expressions of Fault-Related Fold.....	712
<i>Asdrúbal J. Bernal P, Stuart Hardy, Robert Gawthorpe</i>	
Deep Time Paleoclimate Modeling and Natural Resource Exploration: Status and Future Challenges.....	713
<i>Linda E. Sohl, Mark A. Chandler</i>	
Characterization and Quantification of Structural and Stratigraphic Heterogeneities in Deep Water Settings.....	714
<i>Kachi U. Onyeagoro, Frans F. Van Der Vlugt, Steve J. Naruk, Mark Barton</i>	
Uplift and Erosion, Distribution of Mature Source Rock, and Burial Histories for Two Gas Systems in the Sacramento Basin, California	715
<i>Allegra Hosford Scheirer, Leslie B. Magoon, Marilyn E. Tennyson, Kenneth E. Peters</i>	
Modelling Tectono-Sedimentary Processes in Atlantic Margin Salt Basins: Understanding the Evolution of the Deepwater Slope and Allochthonous Salt Sheets	716
<i>Juergen Adam, Csaba Krezsek, Cody MacDonald, Clarke Campbell, Djordje Grujic</i>	

Undiscovered Gas Resource Potential of the Sacramento Basin, California: Results of the 2006 USGS Assessment.....	717
<i>Allegra Hosford Scheirer, Marilyn E. Tennyson, Leslie B. Magoon</i>	
Building an Integrated, Digital Database Using HTML and GIS Tools: A Case Study for the Northern South American Petroleum Province	718
<i>Lisa Bingham, Alejandro Escalona, Paul Mann</i>	
Correlation of Heterolithic Sediments and the role of Differential Compaction. Example from the Åre Formation in the Heidrun Field, Offshore Mid-Norway.....	719
<i>Erik Hammer</i>	
Tectonic Geomorphology and Possible Paleoseismic Trench Sites along the Pleito Thrust Fault near Grapevine, CA	720
<i>Doug Yule, Matthew Birney, Shelby Dawson</i>	
Lower Almond Formation Outcrops in Pine Canyon; Understanding and Predicting Reservoir Distribution and Geometry to Guide Infill and Exploitation Strategies in the Greater Green River Basin.....	721
<i>Brian W. Horn, Keith W. Shanley, William Hanson, Meredith Rhodes-Carson, James Hornbeck</i>	
New Play Concepts in the Onshore Majunga Basin, Madagascar	722
<i>Nigel Banks, Paul Jennings</i>	
Geochemical approach to evaluate a prospect in the Eastern Maracaibo Basin, Venezuela.....	723
<i>Alejandro Martínez, Elias Kassabji, Marcias González, Jacqueline Grobas</i>	
Insights on the Evolution of Oligocene-Miocene Carbonate Buildups from 3D Seismic Data, East Java Basin, Indonesia	724
<i>Amy S. Ruf, Toni Simo, Tina M. Hughes, Kelley Steffen</i>	
Hierarchical Analysis of Channelized Deep-Water Deposits, Carmelo Formation, Point Lobos State Reserve, Northern California	725
<i>Steven Springhorn, Morgan D. Sullivan, Michael Pyrcz, Ryan Alward, Margaret Skartvedt- Forte, Bryan Demucha, Sean Spaeth, Nick Lawlor</i>	
Syndepositional Faults in Mass-Transport Deposits: Seals or Conduits to Fluid Flow?	726
<i>Mason Dykstra, Benjamin Kneller, Katerina Garyfalou</i>	
Styles of Channel Body from Outcrop as an Indicator of Connectivity in Deep Marine Channel Systems	727
<i>Mason Dykstra, Benjamin Kneller, Philip Thompson, Ian Kane</i>	
Structural and Stratigraphic Evaluation of the Southern Belgian Anticline Area, North Midway-Sunset Field, San Joaquin Basin, California.....	728
<i>W. Sebastian Bayer, Shankar Mitra, Roger Slatt, Steve S. Boljen, Joel S. Pomerene</i>	
Geo-Constrained Real Time Model Update (RTMU) While Drilling of the 3D Structural Framework Model	729
<i>Serena Jones, Simon Stewart, Stuart Bland, Norman Armstrong, Robert Humphreys, Michael Doe</i>	
New Closure Schemes in 3D SedFlux for the Simulation of Deltas	730
<i>James P. M. Syvitski, Eric W. H. Hutton</i>	
Mid-Maastrichtian Benthic Foraminiferal Isotope Record from Shatsky Rise, Northwest Pacific Ocean, Evidence for a Change in Oceanic Circulation.....	731
<i>Eric J. Schroeder, Tracy Frank</i>	
Comparison of Fluvial Styles Within the Late Carboniferous Succession of the Maritimes Basin, Atlantic Canada: Toward a Refined Understanding of Paleoclimate	732
<i>Jonathan Allen, Christopher R. Fielding, Michael C. Rygel, Martin R. Gibling</i>	
The Effect of Hydrodynamics on Capillary Seal Capacity	733
<i>T. Manzocchi, B. Palananthakumar, C. Childs</i>	

Dynamics of Downslope Sand Transport Sourced from Estuarine Density Flows	734
<i>Ron Boyd, Kevin Ruming</i>	
The Facies Architecture of Manzanilla Formation, Trinidad	735
<i>Georgia Huggins, Ronald J. Steel</i>	
Deep-Water Foraminifera and Petroleum Geology of the Oligocene Kugmallit Submarine Fan Complex in the Beaufort Sea, Arctic Canada	736
<i>D.H. McNeil, J.R. Dietrich, D.R. Issler, J. Dixon, K. Hu</i>	
Effect of Spherical Pore Shapes on Acoustic Properties in Carbonates	737
<i>Gregor, T. Baechle, Layaan Al-Kharusi, Gregor P. Eberli, Austin Boyd, Alan Byrnes</i>	
The Relationship Between Recovery Efficiency and Depositional Setting in a Deltaic Plain Environment	738
<i>Robert C. Shoup</i>	
Neptunian Fractures and Carbonate-Platform-Margin Escarpments: Lessons from Frasnian (Upper Devonian), Napier Range, Canning Basin, Western Australia	739
<i>W. Bruce Ward</i>	
Improved Fractured Reservoir Models Using Borehole Images and Cores from Horizontal Wells: Monterey Formation, Elk Hills Field, California	740
<i>Tania C. Campbell, Michael R. Gross, Jon R. Schwalbach</i>	
Morphologic Architecture of a Coarse-Grained Turbidite: An Outcrop Study of the Scotland Formation, Barbados, West Indies	741
<i>Nysha A. N. Chaderton, Lesli Wood</i>	
How to Model Coupled Fault Growth and Associated Sedimentation	742
<i>Jean-Luc Rudkiewicz, Didier Granjeon, Marie-Christine Cacas, Emily Albouy</i>	
Assessment of Permeability and Porosity Using High Resolution CT and NMR: An Example From The Central Tengiz Platform Reservoir, Pricaspian Basin , Kazakhstan	743
<i>J.A.M. Kenter, O. Vizika, E. Rosenberg, M. Skalinski, P.M. Harris, M. Buoniconti</i>	
Exploiting the Web to Deliver Petrotechnical Reference Data	744
<i>Eric Hatleberg, Gretchen M. Gillis</i>	
Hierarchical Stratigraphy and Channel Architecture of a Slope Valley Complex Set (Mariner Field, North Sea)	745
<i>Charles E. Stelting, Morgan D. Sullivan, Graeme Bennet</i>	
Kinematic Model Linking Basin Subsidence and Fault Evolution Along the Obliquely Convergent South America-Caribbean Plate Boundary Zone	746
<i>Alejandro Escalona, Paul Mann, Luc Lavier</i>	
Sedimentation as the Result of Interplay of Tectonics and Sea Level Change: Evidence from Pennsylvanian to Early Permian Tensleep Sandstone in Wyoming	747
<i>Qingsheng Zhang, Dag Nummedal</i>	
Evidence for Milankovitch Climate Forcing on High-Frequency Cycles and Early Dolomite Distribution from the Cupido Formation, Sierra Madre Oriental, NE Mexico	748
<i>Younis K. Altobi, Tina R. Foster, Robert K. Goldhammer</i>	
Quantifying the Morphology and Growth of Levees in a Submarine Tributary Channel System Offshore Brunei Darussalam	749
<i>Kyle M. Straub, David Mohrig</i>	
Analysis of Fault Network and Rock Mass Connectivity in Pull-apart Basins	750
<i>Darrell W. Sims, Alan P. Morris, Kevin J. Smart, David A. Ferrill</i>	
Stratigraphic Architecture of Early Channel-Fill Within an Interbasinal Conduit: Grand Coyer, Grès d'Annot Formation, SE France	751
<i>Mark Tomasso, Renaud Bourouilloc, Keumsuk Lee, David R. Pyles</i>	
Quaternary Geomorphic Development and Seismic Hazards of Orange County, Southern Los Angeles Basin, California	752
<i>Eldon M. Gath, Lisa Grant</i>	

The Role of Secondary Flow on Facies Associations and Stratigraphic Architecture in Sinuous Slope Channels: Concepts learned from a 3D exposure of a Sinuous Slope Channel, Brushy Canyon Formation, West Texas	753
<i>David Pyles, Mark Tomasso, D.C. Jennette, R.T. Beaubouef, C.R. Rossen</i>	
Railroad Valley and Adjacent Structures, Nevada: Analogues and Clues from the Flathead Valley, South-eastern British Columbia, Canada.....	754
<i>Peter B. Jones</i>	
A Reference Example for Oolitic Ramps : A 37 km Continuous Outcrop (Jurassic Cliffs of Amellago, High Atlas, Morocco)	755
<i>Aurelien Olivier Pierre, Christophe Durlet, Philippe Razin</i>	
Integrated Ichnology, Sedimentology and Stratigraphy of the Along-Strike Changes in Parasequences of the Lower Cretaceous Boreal Seaway, Central Alberta, Canada	756
<i>Aaron J. DesRoches, Cameron R. Thompson, James A. MacEachern</i>	
Tectonic Influence on Oil and Gaz Field Distribution in the Sahel Region (Sfax Basin, Tunisia) and Related Petroleum Systems	757
<i>Fayrouz Derbel Damak, Ayedi Ben Gacha</i>	
Current Exploration Status And Future Potential of The Frontier Basins in The Republic of Mali.....	758
<i>John Scott</i>	
Comparative Lithology of The Barnett Shale, Central Texas and Age-Equivalent Caney Shale in Southern Oklahoma	759
<i>Jim Puckette, Darwin Boardman, Bill Coffey, Eric Gerding, Patrick Kamman, Naranjan Aryal, Manish Singh, Andy Rihm, Stan Paxton</i>	
Cyclic Sedimentation From the Cenomanian/Turonian of NE Mexico: Its Relationship to Milankovitch and Solar Cycles	760
<i>Fabian Duque-Botero, Florentin J.M-R. Maurrasse, Mihaela Carmen Melinte</i>	
Assessment of Connectivity of Mass Transport Deposits in the Subsurface Using Seismic-Scale Outcrop Analogues	761
<i>Katerina Garyfalou, Benjamin Kneller, Mason Dykstra, David Macdonald</i>	
Similarities and Contrasts Among Major Paleozoic Shale Gas Reservoir Plays in Texas and New Mexico	762
<i>Stephen C. Ruppel, R. G. Loucks, Wayne R. Wright, Jeffrey A. Kane, Fred P. Wang</i>	
Interpreting Shoreline Sands Using Borehole Images - A Case Study of The Cretaceous Ferron Sands in Utah	763
<i>Chunming Xu</i>	
New Directions in Petroleum Visualization	764
<i>James A. Thomson</i>	
Rock Physics Analysis from Well Log Data of Carbonates.....	765
<i>Suryyendu Choudhury, Manika Prasad, R.D Chourasiya</i>	
Pressure Stratigraphy: A Useful Concept for Pressure Seal Analysis	766
<i>Kenneth E. Williams, Joel Gevirtz</i>	
Effective Basin Modeling for Pore Pressure Analysis	767
<i>Kenneth E. Williams, Arkady G. Madatov</i>	
Fracture and Sandstone Diagenesis of the Lance - Upper Mesa Verde Formations, Pinedale Region, Wyoming	768
<i>Ariel Malicse, Calum Macaulay, Candyce Beck-Brake</i>	
Sandstone Diagenesis and Reservoir Quality: Models, Myths, and Reality	769
<i>Thomas R. Taylor, Melvyn R. Giles, Lori Hathon, Neil Braunsdorf, T. N. Diggs, Gino v. Birbiglia, Calum Macaulay, Mark G. Kittridge, Irene S. Espejo</i>	
Geological Controls on Gas Capacity of Shales: Example from the Lower Cretaceous Buckinghorse Formation, Northeastern British Columbia, Canada	770
<i>Gareth R.L. Chalmers, R. Marc Bustin</i>	

Density Distributions and CO₂ Sorption in a Confined Coal Sample for Carbon Sequestration	771
<i>Sinisha A. Jikich, Robert McLendon, Duane H. Smith</i>	
Identification of Avulsion Stratigraphy Style as a Characterization Strategy for Predicting Channel-Body Connectivity in Fluvial Reservoirs	772
<i>Heather L. Jones, Elizabeth A. Hajek, Paul L. Heller</i>	
Future Exploration Plays of the Gulf of Mexico Province.....	773
<i>Jon Frederic Blickwede, Sr</i>	
Heteroatomic Cage Compounds as Molecular Probes For Thermochemical Sulfate Reduction (TSR) In Hot Petroleum Reservoirs	774
<i>Zhibin Wei, J. Michael Moldowan, Fred Fago, Jeremy Dahl, Kenneth E. Peters, Peter D. Jenden, Martin Fowler</i>	
Biodegradability of Diamondoid Hydrocarbons in Biodegraded Oils from the San Joaquin Valley: Impact on Oil Mixing Interpretation by Diamondoids and Biomarkers?	775
<i>Zhibin Wei, J. Michael Moldowan</i>	
Pattern-Based Geological Modeling of Deep-Water Channel Deposits in the Molasse Basin, Upper Austria	776
<i>Lisa Straight, Andre G. Journel</i>	
Facies Control on Diagenesis and Reservoir Quality of Fluvial Sandstones; an Example from the Middle Jurassic of Yorkshire.....	777
<i>Christer B. Peltonen, Knut Bjørlykke</i>	
Drilling Ultra-Deep Gas Prospects on the Gulf of Mexico Shelf: Reservoir Characterization of Shallow Depleted Horizons Designed to Reduce Exploration Drilling Risk.....	778
<i>Brian W. Horn, David G. Derbecker, Sophie Hildebrand, Dean Chergotis, Kevin Vorhaben, Debbie Grove</i>	
Lake Bogoria Basin, Kenya Rift: A Case Study for Climatic Versus Tectonic Controls on Sedimentation	779
<i>TALBOT Michael, TIERCELIN Jean-Jacques</i>	
Tectonic and Eustatic Controls on Foreland Basin Deposition, The Lower Colorado Group and Equivalent Strata of the Alberta Basin, Canada	780
<i>Xavier Roca, Jessica Rylaarsdam, Heng Zhang, Guy Plint</i>	
Contrasting Controls on Deep-Water Sediment Delivery on the Periphery of the South China Sea.....	781
<i>James W. Granath, William G. Dickson, Mark E. Odegard, Janice M. Christ</i>	
Doing The Geochemical "Cotton Eye Joe" In West Africa (Niger Delta To Angola): Identifying The Source Of Radarsat Slicks With Piston Cores, Oil Samples, Potential Fields And Near-surface Seismic	782
<i>William G. Dickson, Craig F. Schiefelbein, Alan K. Williams, Mark E. Odegard, James M. Brooks</i>	
Evaluation of Structural Uncertainty as a Tool to Minimize Risk in Exploration, Ramos Field, Andean Foothills, Argentina.....	783
<i>Oscar Fernandez, Martin Iribarne, Emilia Muzzio, Alfredo Disalvo, Clare Bond, Gustavo Vergani</i>	
Multiple Origins of Thin-Bedded Slope Turbidites: El Rosario Formation, Upper Cretaceous, Baja California, Mexico	784
<i>Jesus Armando Ochoa Rodriguez, Kelsey McNamara, Bryan Anderson, Michael Gardner, James Schmitt</i>	
Applications of Image Log Data in the Characterization of a Jurassic Carbonate Reservoir, Saudi Arabia	785
<i>S. Duffy Russell, Weihua Wang</i>	

New Interpretation of the Paleogeography of the Ancestral Rocky Mountains, Colorado	786
Charles F. Kluth	
Death, Destruction & Dirt: Using Paleosols to Reconstruct Environmental Changes across the Permo-Triassic Boundary.....	787
Stephanie Thomas, Neil Tabor, Wan Yang	
Play Analysis: A Systematic Approach in Pemex	788
Adan E. Oviedo-Perez	
Demonstrating the Value of Combining Geologic Carbon Dioxide Sequestration with Enhanced Oil Recovery: Powder River Basin, Wyoming and Montana.....	789
Jesse J. Melick, Michael H. Gardner	
Bravo Dome CO₂ Gas Field, New Mexico, USA and Associated Noble Gases: Type Example of Accumulation of Carbon Dioxide and Window to The Mantle.....	790
Martin M. Cassidy, Chris J. Ballentine, Barbara Sherwood Lollar, James Lawrence	
Sand Smear Along Normal and Reverse Faults in Mud-Dominated Marine Sequences: A Case Study from Boso Peninsula, Japan, and Implications for Fault Sealing Assessment in Deepwater Basins.....	791
Rasoul Sorkhabi	
Biostratigraphy of Neogene Sedimentary Succession in the Macuspana Basin, Southern Gulf of Mexico.....	792
Yanina Narváez, Javier Helenes, José Manuel Del Moral-Domínguez, Víctor Manuel Martínez-Morales	
Multiple Scales of Confinement for Conglomeratic Slope Valleys: El Rosario Formation (Upper Cretaceous), Baja California, Mexico	793
Bryan J. Anderson, Jesus A. Ochoa, Kelsey McNamara, Jesse J. Melick, Michael H. Gardner, James G. Schmitt	
Dynamic Behavior in Deep-Water Gravelly Subaqueous Flows, El Rosario Formation (Upper Cretaceous), Baja California, Mexico	794
Kelsey McNamara, Bryan Anderson, Jesus Ochoa-Rodriguez, Michael Gardner, James Schmitt	
Integrating Multi-Disciplinary Reservoir Description to Characterize Connectivity in a Complex Minibasin Fill: Holstein Field	795
Terrence R. Wiseman, Roger N. Wagerle, Alex Bump, Neal F. McCaslin, Paulo R. Ballin	
Microbes and Reefs	796
Rachel A. Wood	
N₂ Injection into Coal beds and Its Effects on Coal Permeability and Enhanced CH₄ Production: Insights from Laboratory Analyses	797
Laxmi Chikatamarla, R. M. Bustin	
Measuring CO₂ in Coalbed Reservoirs.....	798
Steven MacDonald	
Downhole Raman Spectroscopy: Real Time, In Situ Chemical Analysis of Coalbed Reservoirs.....	799
Neil R. Van Lieu	
Tertiary Basin Initiation and Sedimentation; East Java Basin, Indonesia	800
John C. Naranjo, J. A. (Toni) Simo, Eduard Dragan, Alan R. Carroll	
Paleohydrology and dolomitization in the Permian San Andres Fm, Guadalupe Mountains and Algerita Escarpment.....	801
Beatriz Garcia-Fresca, F. Jerry Lucia	
Expanding Uncertainty: Predictive Distributions for Undiscovered Oil and Gas Pools in a Play.....	802
Gordon M. Kaufman, John H. Schuenemeyer	

Regional Reservoir Compartmentalization within offlapping, Top-Truncated, Mixed-influenced Deltas, Wall Creek Member, Frontier Formation, Powder River Basin, Wyoming	803
<i>Junaid Sadeque, Janok P. Bhattacharya</i>	
3D Modeling of (Visean-Serpukhovian) Mississippian Mounds, Indian Wells, Sacramento Mountains, New Mexico.....	804
<i>Xavier Janson, Toni Simo, sergio Nardon</i>	
Compaction Localization—Rule or Exception During Sandstone Burial?	805
<i>Peter Eichhubl</i>	
An Integrated Approach for Delineating Structural Trends Using Regional Gravity Enhancements and Borehole Imaging in the Michigan Basin	806
<i>Vsevolod Egorov, Pedram Zarian</i>	
Reservoir Characterization of Low Permeability Lower Shoreface Facies in the Baram Delta Province, Brunei Darussalam	807
<i>Pierre Guilpain, Howard D. Johnson, Abdul Razak Damit</i>	
Subsurface Characterization of a Carbon Sequestration Pilot Site: San Juan Basin, NM.....	808
<i>Brian Henthorn, Tom Wilson, Art Wells</i>	
Seismic Modeling of Entire Outcropping Basin-Fill Successions: A Novel Approach to Resolving and Ground-Truthing Seismic Stratigraphy	814
<i>Kristina Bakke, Trond Lien, Ole Martinsen, Steen Petersen</i>	
Structural Complexity in Structurally Simple Fractured Reservoir Analogs.....	815
<i>Stephen E. Laubach, Meghan E. Ward</i>	
Spatial Estimation of Shale Gas Potential in the Triassic Doig and Montney formations, Northeastern British Columbia	816
<i>Warren Walsh, Ben Kerr, Chris Adams, Joe Korol</i>	
Characterizing Subtle Deltaic Influences in the Shallow Marine (Lower Cretaceous) Viking Formation at Hamilton Lake, Alberta, Canada	817
<i>Lynn T. Dafoe, S. George Pemberton, James MacEachern</i>	
An Outcrop Record of Complex Sediment Gravity Flow Mechanisms	818
<i>Piret Plink-Björklund, Mary Carr, Robert Amerman, Jim Borer, Grace Ford, Estelle Mortimer, Douglas Paton, David Pyles, Bruce Trudgill, Richard Wilde</i>	
Petroleum Potential of the East Greenland Shelf	819
<i>Donald L. Gautier, Flemming G. Christiansen, Lars Stemmerik, Torben Bistrup, Jørgen A. Bojesen-Koefoed, Kai Sørensen</i>	
Tracing Sand From Source to Sink Across Eastern North Island, New Zealand: Insights From the Shelf Segment of the System	820
<i>Kathleen M. Marsaglia, Shelby Dawson, Julie Parra, Kevin Rivera, Alissa DeVaughn, Dawn James, Steven Kuehl</i>	
Along-Strike Continuity of Caribbean Tectonic Terranes and Their Controls on Source and Reservoir Rocks Offshore Colombia and Venezuela	821
<i>Eleine Melisa Vence, Alejandro Escalona, Paul Mann, Hamed El-Mowafy</i>	
Characterization of Damage Zone Associated with Strike-slip Faults and its Multiscale Statistics.....	822
<i>Ghislain De Joussineau, Atilla Aydin</i>	
The Effects of Magmatism on the Reservoir Potential of Sandy Deep Marine Successions of Southern California and the Borderland Region.....	823
<i>Kathleen M. Marsaglia, David A. Clague, Alice S. Davis</i>	
Comparison of Deepwater Mass Transport Complex Settings: West Texas; South-Central Pyrenees, Spain; Northern Calcareous Alps, Austria.....	824
<i>Robert Amerman, Bruce Trudgill, Eric P. Nelson, Michael H. Gardner, Pau Arbués, Jim Borer, Julian Clark, Grace L. Ford, Hugo Ortner, Douglas Paton, Piret Plink-Björklund, David Pyles</i>	

Cracking the Hourglass – Understanding the Fundamental Unit of the Source and Sink.....	825
<i>John Thurmond, Ole Martinsen, Tor Sømme, William Helland-Hansen</i>	
Outcrop Reservoir Modelling of Shallow Marine Deltaic Systems from the Ferron FM, USA and the Roda Sandstone, Spain	826
<i>Havard D. Enge, Beate L. S. Leren, Simon Buckley, John Howell, Åsmund Vassel, Allard W. Martinius</i>	
Issues and Challenges in Geological and Rock Properties Modeling Using Log Data from High Angle and Horizontal (HA/HZ) Wells	827
<i>Hezhu Yin, Quinn Passey</i>	
Stratigraphic Architecture of Two Incised Valley Fills: Fiddler Creek and Claretton Fields, Wyoming.....	828
<i>Keriann H. Pederson, David W. Bowen</i>	
Late Diagenesis: B707The Key to Pennsylvanian Regressive Oomoldic Reservoirs (Central Kansas).....	829
<i>Jessica E. Poteet, Evan K. Franseen, Robert H. Goldstein</i>	
What Do Geologists Need to Know about Metadata?	830
<i>Don Downey</i>	
High-Resolution Reservoir Modeling of a Deepwater Channel Complex with Thin Beds, Zafiro Field, Equatorial Guinea	831
<i>Peter Schwans, Marty Cohen, Kim Zauderer, Stephen D. Knapp, Ted C. Lukas</i>	
Subsalt Image Improvements in GOM using Shale and Salt Discrimination through PSDM Velocity Model Building	832
<i>Shkelqim Muskaj, David Quintanilla, Hector Sepulveda</i>	
Use of High-Resolution Core Description Data to Risk Net Pay from Log-Based Petrofacies for Thinly-Bedded Deepwater Channel Complexes, Zafiro Field, Equatorial Guinea	833
<i>Theodore C. Lukas, Peter Schwans</i>	
High-Frequency Sequence Stratigraphy, Depositional Systems, and Hydrocarbon Trapping Style of Upper Cretaceous QY Formations in HTZ 3-D SSurvey, Southwest Songliao Basin, China.....	834
<i>Wenzhi Zhao, Caineng Zhou, Yingliu Chi, Hongliu Zeng</i>	
Identification of the Processes Controlling the Distribution and Quality of Oil Accumulations of the Southern Llanos Basin, Colombia.....	835
<i>Luis Miguel Bernardo, Jesus Augusto Rodriguez, Sr</i>	
The Lower Tertiary Play: Leasing Activity and New Opportunities in the Ultra-Deep Water Gulf of Mexico	836
<i>Matthew C. Frye</i>	
Evidence for Folding of Layered Terrains in Candor Chasma, Mars	837
<i>Ralph E. Milliken, John Grotzinger</i>	
Building Three-Dimensional Structural Frameworks with Well-Log Data	838
<i>William C. Ross, Richard J. Langenwalter</i>	
Reservoir-Scale Analysis of Sandstone-Body Dimensions in a Braided Fluvial System, Upper Williams Fork Formation, Main Canyon, Piceance Basin, Colorado.....	839
<i>Nicholas K. Sommer, Matthew J. Pranter, Rex D. Cole</i>	
Internal structures within Yellow Bank Creek Injectite Complex (YBCC) Northwest Santa Cruz, California: Importance of outcrop analogues for subsurface Modelling of Sand Injectites	840
<i>Anthony Stephen John Scott, Mario Vigorito, Andrew Hurst, Joe Cartwright</i>	
The Structural Styles and Strike-slip Movement of Tan Lu Fault Zone in Late Pleistocene and The Formation of Oil Traps in Bohai Bay Area	841
<i>Zaisheng Gong, Sr, Sitian Li</i>	

Geocellular Model Construction for Enhanced Recovery of the Southern Oregon Basin Oilfield in Wyoming, USA	.....	842
<i>Taizhong Duan</i>		
Exploring the Jurassic Carbonate Platform Margin, Majunga Basin, Madagascar	.....	843
<i>Robert E. Webster, Paul S. Ensign</i>		
Sequence Stratigraphy, Sea Level Change & Palaeoenvironments Via Chemostratigraphy: Regional to Global Correlations	.....	844
<i>Amina Mabrouk, Ian Jarvis, Habib Belayouni, Sr, R. TJ Moody, V, Ross Sandman</i>		
Directional and Deep Logging While Drilling Technology Reduces Geological Uncertainties and Allows Optimum Horizontal Well Placement	.....	850
<i>Augusto Carvalho Silva, Sr, Jose Cavero, Cory Labatte, Rene Mensias, Johny Tapia, Gavino Espinel, Luis Chiluiza, Gustavo Hermosa, German Guerra</i>		
Deep-Water Slope Channel Fill Sandstones, Laingsburg Formation (Permian), Karoo Basin, South Africa: Confined Deep-Water Reservoirs Dominated by Bars with Reservoir Connectivity Controlled by Lateral Bedform Distribution and Bar Stacking	.....	851
<i>Anthony Sprague, Darren Box, Matt Grove, John Ardill, Lars Seidler, Maija Schellpeper, Mike Farrell, Mark Rosin, Jonathan Stewart, Nowell Briedis, Frank Goulding, John Snedden, Donatella Mellere</i>		
Quantitative Assessment of Eustatic and Stratigraphic Controls on Reservoir Stacking Patterns in Ice-House Carbonates	.....	852
<i>David A. Pollitt, Peter M. Burgess, V, V. Paul Wright, Giovanna Della Porta</i>		
Carbonate Sedimentology's Next Generation: New Perspectives on Shoal Geomorphology	.....	853
<i>Stacy Lynn Reeder, Eugene Rankey</i>		
Contrasting Geological Evolution of the Ambilobe, Majunga and Morondava Basins, Offshore Madagascar	.....	854
<i>Graham Hyden, Edward P. Blunt, Douglas Winstone, Mark Enfield, Matthew Watkinson</i>		
High-End Visualization in Geoscience and Training	.....	855
<i>Marek K. Czernuszenko</i>		
Deriving Pore Structure and Permeability from Sonic Velocity in Carbonates	.....	856
<i>Ralf J. Weger, Gregor Eberli, Gregor Baechle, Jose Luis Massaferro, Yueng Fen Sun, Guido Bracco Gartner</i>		
Misbehaving Corals: Increased Cover with Depth in Chagos Archipelago Lagoons and the Importance of Non-Reef Habitats	.....	857
<i>Bernhard Riegl, Sam Purkis, Charles Sheppard</i>		
Spectral Decomposition of Seismic Forward Modelled Outcrops of Deepwater Channel and Levee Deposits	.....	858
<i>Magdalena Szuman, Ian Kane, Valerie Charoing, Lars Nielsen, Benjamin Kneller, Mads Huuse</i>		
Jointing Within the Outer Arc of a Forebulge: A Mechanism for Additional Reservoir Complexity at the Subseismic Scale	.....	859
<i>Terry Engelder, Gary Lash</i>		
Using the Cone Penetrometer Tool to Evaluate Depositional Character: Examples from the South Carolina Coastal Plain	.....	860
<i>Douglas E. Wyatt, Frank H. Syms, Randy Cumbe</i>		
High-Resolution Calcareous Nannofossil Biostratigraphy of the Santonian Stage Boundary, Western Interior Basin	.....	861
<i>Stacie A. Blair, David K. Watkins</i>		
Evidence for Microbial Respiration of Structural Fe3+ from Clay Minerals in an Ancient Diagenetic System: Implications for Authigenic Iron and Silica Products in Mudstones	.....	862
<i>Robert R. Gaines, John S. Vorhies</i>		

Why are Only Some Isolated Carbonate Buildups Grain-Dominated?.....	863
<i>Eugene C. Rankey, J. Rodrigo Garza-Perez, Stacy L. Reeder</i>	
Self Sourcing of Ara Group Carbonate Stringer Oils in the Neoproterozoic-Cambrian South Oman Salt Basin from indigenous kerogen and bitumen.....	864
<i>Gordon D. Love, Emmanuelle Grosjean, Charlotte Stalvies, Colin E. Snape, Will Meredith, David A. Fike, John P. Grotzinger, Paul N. Taylor, Mark J. Newall, Roger E. Summons</i>	
High Frequency Cyclicity in a Fining-Upwards Lowstand Continental Deposit, Upper Jurassic, Neuquen Basin, Argentina.....	865
<i>Carlos Arregui, Santiago Grossi</i>	
Reservoir Characterization of Confined Sheet Reservoirs using Borehole Images and Core, Tahiti Field, Gulf of Mexico, U.S.A.....	866
<i>Charles E. Stelting, William J. Schweller, Gigi Ellis, Scott E. Turner, Myrt E. Cribbs, Freddy Yip</i>	
Structural and Stratigraphic Study of the N-Sand in the Helis East Black Bay Field	867
<i>Elizabeth Zobell, Anish Kumar, Brian Briscoe, Jonathan W. Malone, James P. Stoyanoff, Paul N. Lawless, George R. Kear</i>	
Global Climate Change in the Paleozoic (Ordovician, and Carboniferous-Permian): Why it Matters to the Oil Industry Now, and in the Future	868
<i>Michael Carl Pope</i>	
The Ichnological Signal of Paleozoic Black Shales: A Tool for Delineating The Dysaerobic Zone	869
<i>Diana L. Boyer, Mary L. Droser</i>	
The Upper Pennsylvanian Indian Cave Sandstone: Lithostratigraphy, Architecture and Sequence Stratigraphy of Potential Reservoirs in the High Midcontinent Shelf Platform, USA	870
<i>Steven A. Fischbein, Christopher R. Fielding, R. Matthew Joeckel</i>	
Emerging Trends from 69 Giant Oil and Gas Fields Discovered from 2000-2006.....	871
<i>Paul Mann, M.K. Horn, Ian M. Cross</i>	
Piston Cores vs Seapage Samples, Are They Representative in Deep Water Basin Analysis?	872
<i>Maria de Jesús Escandón, Mario Limón, Rebeca Navarro</i>	
Are Tsunamis Always Sedimentologically Important Events? A Case Study of Sedimentological and Geochemical Analyses of Coastal Lagoons, Sri Lanka.....	873
<i>Kelly L. Jackson, Eugene C. Rankey, Gregor P. Eberli, Falk Amelung, Miriam S. Andres, Larry C. Peterson, Peter K. Swart, H.A.H. Jayasena, K.V. Wilbert Kehelpannala</i>	
Maximum Sustainable Carbon Dioxide Injection Pressures in the Naylor Field, Otway Basin.....	874
<i>Peter John Van Ruth, Josh Qiang Xu</i>	
Application of Fault Plane Attribute Mapping in the Gambier Embayment of the Onshore Otway Basin, South Australia	875
<i>Peter J. Boult, Sandy Menpes, Gordon Wakelin-king</i>	
Sand-Prone Mass-Transport Deposits: Unconventional Reservoirs on the Continental Slope.....	876
<i>Trey Meckel</i>	
Understanding Channel-Overbank Interactions in Deep-Marine Slope Settings: Architectural Analysis of Channel and Levee Elements in the Neoproterozoic Isaac Formation (Windermere Supergroup), Southern Canadian Cordillera.....	877
<i>Ernesto Schwarz, Zishann A. Khan, R. William C. Arnott</i>	
Rock Physics Modeling is Critical for AVO Analysis – A North Sea Paleocene Case Study.....	878
<i>Lars Hübert, Karsten Müller, Jack Dvorkin</i>	

Diagenetic Variations Between Upper Cretaceous Outcrop and Deeply Buried Reservoir Chalks of the North Sea Area.....	879
<i>Morten Leth Hjuler, Ida Fabricius</i>	
Experimental Tidal Channel Geometries in Space and Time	885
<i>Brigitte M. Vlaswinkel, Eugene C. Rankey</i>	
Emerging Jurassic Source Rock Play in the Deepwater off Newfoundland and Labrador, East Coast of Canada	886
<i>Michael E. Enachescu, John R. Hogg</i>	
Tectonic and Climatic Controls on Sequence Stratigraphy Revealed by Geometric and Paleosol Analyses in a Nonmarine Foreland Basin.....	887
<i>Teresa Jordan, Brian Ruskin</i>	
3-D Reservoir Characterization of a Point-Sourced Deepwater Carbonate Reservoir Analog, Upper Miocene, Agua Amarga Basin, SE Spain	888
<i>Rachel Dvoretsky, Evan Franseen, Robert Goldstein, Alan Byrnes</i>	
Experimental Determination of Reaction Rates and Modeling of the Long-Term Fate of CO₂ in Deep Geological Formations.....	889
<i>Peng Lu, Qi Fu, William E. Seyfried, Jr, Brian R. Strazisar, Sheila W. Hedges, Zuoping Zheng, Chen Zhu</i>	
A Re-Examination of the Chalk: From Reservoir to Seal.....	890
<i>Anthony J. Mallon, Richard E. Swarbrick</i>	
Hydrocarbon Potential of the Aruba and Western Curacao Basins, Offshore Venezuela.....	891
<i>Hamed Zeidan El-Mowafy, Paul Mann, Alejandro Escalona</i>	
Anatomy of Anachronistic Carbonate Platform: The Lower Triassic Moenkopi Platform of the Southwestern United States.....	892
<i>Adam D. Woods, Michelle L. Mary, Scott A. Mata</i>	
Modeling of Iron Oxide Concretion Formation: Complexities and Sensitivities of Fluid Interactions on Earth and Mars.....	893
<i>Marjorie A. Chan, Jens Ormö, Anthony Park, Michael Stich, Virginia Souza-Egipsy, Goro Komatsu</i>	
Basin Filling Patterns on the Waipaoa Continental Shelf (NZ) Revealed by Mapping Tephra Beds in High-Resolution Seismic Records	894
<i>Thomas P. Gerber, Alan Palmer, Lincoln F. Pratson, Steve Kuehl, J.P. Walsh, Clark Alexander, Alan Orpin</i>	
Optimum Horizontal Well Placement in Very Low Resistivity Reservoir with a Directional and Deep Logging While Drilling Technology.....	895
<i>Augusto Carvalho Silva, Sr, Jose Cavero, Waldyr Rodriguez, Marco Augusto, Johana Vargas, Rommel Chacon</i>	
Application of Structural Analogs to Enhance Understanding of Tectonically Inverted Settings	896
<i>David J. Reynolds, John R. Underhill</i>	
Geologic Characterization Using 3D Modeling, Upscaling, and Simulation: Case Study of Serra Field in Potiguar Basin, Northeast of Brazil	897
<i>Vicente Pimentel, Sr, Ricardo Oliveira, Yoe Reyes-Perez, Flavio Oliver</i>	
Realities of Future North American Natural Gas Supply –The Role of Unconventional Resources, Anticipated Demand and Price Projections.....	898
<i>John B. Curtis</i>	
Nanocomposites as Models of Mineral Surface - Organic Matter Relationships and Their Application to Organic Carbon Preservation.....	899
<i>Arkadiusz Derkowsky, Martin Kennedy, Thomas F. Bristow</i>	

Structural Consequences of Seepage Forces in Overpressured Thin-skinned Thrust Belts	900
<i>Peter R. Cobbold, Benjamin J. Clarke, Helge Loseth</i>	
Sedimentary Facies and Architecture of a Subtidal Sandbar Complex, Lower Cambrian Gog Group, Southern Rocky Mountains, Canada.....	901
<i>Patrício R. Desjardins, Luis A. Buatois, Brian R. Pratt, M. Gabriela Mangano</i>	
Slope Stability along Incised Fluvial Valleys	902
<i>Alan P. Morris, David A. Ferrill, Ronald N. McGinnis, Ben A. Abbott</i>	
Seismic Characterization of Gant Sand Injectites in the North Sea and West of Shetland: Reservoirs, Conduits and Drilling Hazards	903
<i>Mads Huuse, Joe A. Cartwright, Simon J. Shoulders, Rutger Gras</i>	
Cool-water Carbonate Contourites – Not Reefs – Examples from the Great Australian Bight and the North Sea Basin.....	904
<i>Mads Huuse, Finn Surlyk, Holger Lykke-Andersen</i>	
Source Control Over Calciturbidite Facies Distributions in the Lower Isaac Carbonate, Windermere Supergroup, Canada	905
<i>Paul R. Gammon, Bill Arnott</i>	
Along-Strike Variability in Sedimentology and Geomorphology of a Leeward Margin, Caicos Platform	906
<i>Eugene C. Rankey, Sean A. Guidry, Stacy Lynn Reeder</i>	
The Influence of Changing Flood Hydrographs on Fluvial Sandstone Composition and Grain Size Distribution	907
<i>Brooke Fambrough, Rudy Slingerland, William A. Heins</i>	
The Use of Image Logs to Decipher Complex Structures and Aid in Well Completions within Mature Basins	908
<i>Thomas M. Howard, Paul Elliott, Dalton Lockman</i>	
Effect of Seismic Resolution on Interpretation, Modeling, and Dynamic Behavior: An Outcrop Example for Deepwater Channels, Scripps, San Diego	909
<i>Omar J. Varela, Kirt M. Campion, Michael E. Farrell, Craig S. Calvert</i>	
Advanced Acquisition and Management of Petrographic Information from Reservoir Rocks Using the Petroledge® System	910
<i>Luiz F. De Ros, Mara Abel, Karin Goldberg</i>	
Using Climate Model Experiments of Orbital Cycles to Understand Stratigraphic Variability	916
<i>Thomas L. Moore, Martin Perlmutter, Christopher Scotese</i>	
Conjugate Normal Faults and their Role Within Fault Blocks and Fault Damage Zones	917
<i>David A. Ferrill, Alan P. Morris, Judith McIntyre, Iain Sinclair</i>	
Evaluating Paleoclimate Indicators Using Climate Envelopes	918
<i>Thomas L. Moore, Roy E. Plotnick, Martin Perlmutter, Judith Totman Parrish</i>	
The Hit Cube: A Stochastic Pseudo Well Matching Tool for Seismic Prediction of Rock and Fluid Properties	919
<i>Gboyega Ayeni, Arnaud Huck</i>	
Assessment of Undiscovered Oil and Gas Resources of the United States Outer Continental Shelf, 2006.....	920
<i>Harold E. Syms</i>	
A Genetic Framework for Hydrocarbon Occurrence in the Arctic.....	921
<i>Robert J. Ferderer, Michael A. Sullivan, Steve Creaney</i>	
Rock Property Data Volumes from Well Logs	922
<i>Leslie Richard Denham, H. Roice Nelson, Jr</i>	

Mississippian Chert Reservoirs in Kansas, 2: Silicon Isotope Geochemistry and Mechanism of Silicification	928
<i>Hongsheng Cao, S. J. Mazzullo</i>	
High-Resolution Spatial and Temporal Patterns of Sand Accumulation on an Active Highstand Submarine Fan in Santa Monica Basin, Offshore California: Implications for Controls of Deep-Marine Sedimentation	929
<i>Brian W. Romans, William R. Normark</i>	
Structure, Stratigraphy, and Gas Potential of the Northwestern Eocene Maracaibo Foreland Basin, Western Venezuela	930
<i>David R. Contreras, Paul Mann, Alejandro Escalona, Miguel Nuñez</i>	
Distinguishing Static and Dynamic Faults: Application for Gulf of Mexico Deep Gas Play ...	931
<i>David Connolly, Bill Fraser, Fred Aminzadeh</i>	
Regional Tectonic Controls on Reservoir and Seal Quality of Mio-Pliocene Fluvial-Channel Sandstones, Bohai Basin, Eastern China.....	932
<i>Hugo A. Castellanos, Paul Mann</i>	
Imaging Nanoscale Pores in the Mississippian Barnett Shale of the Northern Fort Worth Basin	933
<i>Robert Reed, Robert Loucks</i>	
Submarine Canyons as High Frequency Sequence Boundaries in the Niger Delta, Nigeria	934
<i>Tim R. McHargue</i>	
Outcrop Analogs of Multi-Layer Fracture Zones	935
<i>Michael R. Gross</i>	
Reconstructing Paleogeography and Sea-level History of Western Puerto Rico Using High-resolution 2D Seismic Profiles	936
<i>Martín Hanzlik-Valentín, Paul Mann, Alejandro Escalona, Nancy Grindlay, Lewis Abrams</i>	
Tectonic Generation of Early Miocene Transgressive Fill of the Eastern Venezuela Basin (Maturín Sub-Basin)	937
<i>Nubia Santiago, Kaolu Parra, Ronald Steel</i>	
Avulsion Clusters in Alluvial Basins: Statistical Tools for Quantifying Sand-Body Distributions and Implications for Reservoir Modeling and Interpretation	943
<i>Elizabeth Hajek, Paul Heller, Snehalata Huzurbazar, Benjamin Sheets, Chris Paola</i>	
The Application of Hydrocarbon System and Play Fairway Analysis for Unconventional Resource Plays: The Case for Shale Gas Reserves in New York's Ordovician Utica Shale	944
<i>Jay E. Leonard, Donald Clark, Robert J. Coskey, Nancy B. Hunter, Charles P. James, China O. Leonard, Gary G. Lash, Veit J. Matt</i>	
A Detailed Look inside a Complex Channel Belt: Processes, Rates, and Architecture for an 8K-Duration Mississippi River Meander Belt	945
<i>John Holbrook, Whitney Autin, Ronald J. Goble, Tammy M. Rittenour, Stephen Marshak</i>	
Incision Mapping of a Drainage Basin from Integrated GIS and Digital Elevation Models: Implications for Sediment Budget and Timing in Frontier Petroleum Basins.....	946
<i>Nahid DS Gani</i>	
Architectural Elements Versus Geomorphological Units: Building Blocks of Ancient and Modern Depositional Systems	947
<i>M. Royhan Gani</i>	
Organic C-Rich Mudstone Sedimentation in Arctic Alaska During a Seasonally Cold Early Cretaceous (Hauterivian-Barremian)	948
<i>Margaret A. Keller, Joe H.S. Macquaker</i>	
Mars Science Lab - The Search for Source Rocks on Mars	949
<i>John Grotzinger, Ed Stolper</i>	

New Tools Improving Collaborative Visualization and Decision Making.....	950
<i>Jim Benson, Chris Phillips</i>	
High-Frequency Paleoclimate Variation: Analysis, Interpretation, and Significance.....	951
<i>Thomas Algeo</i>	
The Interplay of Tectonic and Climatic Forcing Factors in the Deposition of a Hydrologically-Closed Basin Fill Sequence: Copper Canyon “Formation”, Death Valley National Park.....	952
<i>Torrey Nyborg, Paul Buchheim</i>	
Role of Strike-Slip Faulting in the Evolution of a Young Rift Basin: Malawi Rift, East Africa	953
<i>Estelle Mortimer, Douglas Paton, Chris Scholz, Manfred Strecker</i>	
Seismic Modelling of Large-Scale Conical Intrusions	954
<i>Mario Vigorito, Andrew Hurst, Anthony Stephen John Scott, J. A. Cartwright</i>	
Tectonic Retreat and Drowning of Carbonate Platform Margins: Triassic Yangtze Platform, South China	955
<i>Marcello Minzoni</i>	
Architecture and Internal Geometry of a Giant Intrusive-Extrusive Complex, Panoche Hills - Central Coastal Range, CA, USA	956
<i>Mario Vigorito, Andrew Hurst, Anthony Stephen John Scott, J. A. Cartwright</i>	
Petroleum Geochemistry of Upper Assam Shelf- a Case Study	957
<i>S. Pahari, A.K.S. Madhavan, I.V.S.V. Prasad, M. Varshney, A. K. Sinha, B.L. Sharma, A. Mishra, A. Banerjee</i>	
3D Structural Control of Turbidite Deposition in a Foreland Fold and Thrust Belt: The Annot Sandstone Depocentre of Sanguinière, SE France	958
<i>Lise Salles, Mary Ford, Antoine LeSolleuz, Philippe Joseph, Christian Le Carlier de Veslud</i>	
Field-based 3D Modelling of a Growth Syncline : The Annot Syncline, SE France	959
<i>Adrien Cazaux, Mary Ford, Lise Salles, Christian Le Carlier de Veslud, Antoine Le Solleuz</i>	
Structural and Depositional Model for Offshore Central West Greenland (67 -71 N): Implications for Regional Petroleum Systems	960
<i>Torben Bidstrup, Ulrik Gregersen, J. A. Bojesen-Koefoed, Flemming G. Christiansen, Finn Dalhoff, Anders Scherstén, Martin Sønderholm</i>	
Tectonic Signatures in a Rigidly Opening Rift: the Giant Gilbert Delta Systems of the Corinth Rift, Greece.....	961
<i>Mary Ford, Sébastien Rohais, Nicolas Backert, Fabrice Malartre, Edward A. Williams</i>	
Virtual Reality and Field Integrity Management.....	962
<i>Horst R. Von Berg, André Colin</i>	
Ice and High-Magnitude Climate Change in Equatorial Pangaea	963
<i>G.S. Soreghan</i>	
Architectural Variation in Confined Channels: Examples from Outcrop and 3D Seismic Data.....	964
<i>Philip Thompson, Benjamin Kneller, Mason Dykstra</i>	
Assessment and Reduction of Uncertainty in Fault Seal Analysis for Hydrocarbon Fluid Flow Prediction.....	965
<i>Philip A. Jones, Stephen R. Freeman, Simon D. Harris, Rob J. Knipe, Raoul R.D. Treverton, P. William Bradbury</i>	
Petrophysical Characterization of the Upper Jurassic Kimmeridgian of the Zaap Field in the Campeche Bay	966
<i>Francisco Castellanos, Victor Hugo Moreno, Bolivar Villacres</i>	
Geologic And Seismic Attribute ModellingTo Aid Exploration In Complex Carbonates: Khuff (Permian-Triassic), Saudi Arabia	967
<i>Tom Harland, Abdel Fattah Bakhet, A.E. Greg Gregory, David Tang, Abdel Ghayoum Ahmed</i>	

3D Petroleum Systems Modeling in Fold and Thrust Belts - A Case Study from Bolivia	968
<i>Matais Di Benedetto, Emilio Rocha, Simone Sciamanna, Friedemann Baur, Carolyn Lampe</i>	
Distribution and Stratigraphy of the Neogene Utsira - and Hutton Sand in the Viking Graben Area, North Sea.....	969
<i>Ulrik Gregersen, Peter N. Johannessen, Gary Kirby, Andy Chadwick, Sam Holloway</i>	
Early Post-Burial Deformation of Turbidite Channel Sands in the Deep Gulf of Mexico	970
<i>Marine Perus, Patrice Imbert</i>	
Applications of the Trap and Seal Analysis Methodology on Prospects and Reservoirs in Carbonates, Southeastern Mexico	971
<i>Raymundo Sanchez, Marco Arreguin</i>	
Sand Tectonics: a Reservoir-Scale Process Similar to Basin-Scale Salt and Shale Tectonics	972
<i>Patrice Imbert, Marine Perus</i>	
Reservoir Characterization of Low-Permeability Turbidites to Improve Waterflooding in the Long Beach Unit, East Wilmington Field, California	973
<i>Creties D. Jenkins, Don Michel, David Simmons, Nitin Srivastava, Shahin Al-Sharif, Randy Harris, John Weisgram</i>	
Sediment Gases as Indicators of Subsurface Hydrocarbon Generation and Entrapment - Examining the Record Both in Laboratory and Field Studies	974
<i>Michael A. Abrams, Nicola F. Dahdah</i>	
Petrologic and Geochemical Evidence for Refluxing Brines in the Devonian Wabamun Group, West-Central Alberta	975
<i>Ihsan Al-Aasm, Samantha Raymus</i>	
Volume Interpretation from Regional to Prospect Scale: on the Desktop!.....	976
<i>Philip M. Weatherill, Mark Stockwell, Howard Chan, Les Ruthven, Paul Xu, Rick Palmer, Charlie Huang, Tom Holley</i>	
New Interpretation Assets from Computer Assisted Interpretation	977
<i>Huw James, Pascal Klein</i>	
Consideration of Geologic Conditions in Optimizing a Tunnel and Ocean Outfall Alignment within the Los Angeles Basin, California.....	983
<i>David M. Sackett, Thomas W. McNeilan, Calvin G. Jin</i>	
Paleo-Environmental Evolution of an Extensional Cretaceous Continental Sequence, Northern Precordillera, Central Argentine Andes	989
<i>Hernan M. Reijenstein</i>	
Re-Flooding of Carbonate Bank-Tops and Initiation of Calci-Turbidite Deposition: Timing and Processes during Late Quaternary Deglacial Transitions	990
<i>Stephan J. Jorry, André W. Droxler, Emily Pohlman</i>	
Development of High Resolution Chronostratigraphic Models for the Southern Ocean Using Quantitative Biostratigraphy.....	991
<i>Eva Tuzzi, Rosemary Dutton Cody, David M. Harwood, Richard Levy, Diane M. Winter</i>	
Coupled 3D Landscape and Sedimentary Numerical Modelling of Along-Strike Variability in Hangingwall Stratigraphy Caused by Fault Displacement and Sea-Level Cycles	992
<i>Emma Finch, Rob Gawthorpe</i>	
Recent Gas discoveries in the Carnarvon Basin, Northwest Shelf, Australia.....	993
<i>Michael McLerie, Paul Clark, Mark Brokaw, Nathan Palmer, Andrew Arnold</i>	
Importance of Fabric on Production Rates of Gas Shales: Experimental and Numerical Analyses	994
<i>Amanda M.M. Bustin, Xiaojun Cui, Venkat Murthy, R. Marc Bustin</i>	
Progradational Sequence Sets on the Tectonically Active Eastern Margin of the Pennsylvanian Paradox Basin, Southwestern Colorado.....	995
<i>Gary L. Gianniny, Kimberlee J. Miskell-Gerhardt</i>	

Applications of Automatic Fault Extraction (AFE) in a Variety of Geologic Environments: Results, Limitations, and Suggested Improvements	996
<i>Geoffrey A. Dorn, Huw E. James, Laura Evins, Jonathan Marbach, Francis A. Coady</i>	
The Case for Using Extended Reach Drilling to Develop California OCS Reserves from Onshore Locations	1002
<i>Tom Bjorklund</i>	
Authigenic Carbonate Rock from Geologic Settings with and without Gas Hydrate from the Gulf of Mexico	1003
<i>Woodong Jung, Roger Sassen</i>	
Are Our Earth and Dynamic Models Heterogeneous?	1006
<i>Dennis W. Dull, G. Michael Shook, Akmaral Zhumagulova, Bakhit Tulegenova</i>	
Fault Controlled Sandstone Distribution on a Lacustrine Delta: Ordos Basin, North-central China.....	1007
<i>Jana M. Van Alstine, Alan R. Carroll</i>	
Evaluating the Key Static and Dynamic Uncertainties of Korolev Field, Kazakhstan	1008
<i>Akmaral Zhumagulova, Dennis W. Dull, Mark Skalinski, Djuro Novakovic</i>	
Sediment Mass Extraction as a Key to Quantifying the Interplay of Tectonic Subsidence and Sedimentation.....	1009
<i>Chris Paola, John Martin, Sean Connell, Wonsuck Kim</i>	
Deep Time: A Frontier for Paleoclimate Research	1010
<i>H. Richard Lane, Martin A. Perlmutter, John M. Armentrout</i>	
Geometry, Topography and Flow Expansion in Depositional Lobes	1011
<i>Chris Paola, Luca Sittoni, Vaughan Voller</i>	
Modern 3D Interpretation of a Mature, Structurally-Complex Oil Field: Whittier Field, Los Angeles Basin, California, USA	1012
<i>Jay Scheevel, Michael McCaskey, Jason Byl</i>	
Confined Flow in Deep-Water Settings from Slope to Basin Floor: Contrasting Architecture and Morphologies between Deposits Associated with Fully- and Partially-Contained Channelized Flow	1013
<i>Henry W. Posamentier</i>	
The Tectono-Sedimentary Evolution of NW Madagascar: Application in Frontier Exploration of Deep Water Basins	1014
<i>Matthew P. Watkinson, Edward P. Blunt, Mark A. Enfield</i>	
The Tectonic and Paleogeographic Context of Madagascan Petroleum Systems	1015
<i>R.J. Hoult, P.J. Markwick, K.L. Wilson, J.P. Armstrong, D.G. Wright, A.J. Bourne</i>	
Sequence Stratigraphy of the Latest Cretaceous and Cenozoic Shelf to Basin Transition NW Madagascar: Significance for Future Exploration	1016
<i>Matthew P. Watkinson, Mark A. Enfield, Edward P. Blunt</i>	
Defining Uncertainty in Earth System Based Process Models of Source, Reservoir and Seal Facies	1017
<i>P.J. Markwick, P.J. Valdes</i>	
Geochemical Characterisation and Source Investigation of Oils from Narmada Block of Cambay Basin, India.....	1018
<i>A.K. Bhatnagar, B.G. Goswami, D.S. Rawat</i>	
The Barremian Deep Marine Confined Channel System: Bredasdorp Basin, South Africa	1024
<i>Varsha Singh, Jeff Aldrich</i>	
Turbidity Currents and Confined Channels: the Case of the Stromboli Slope Valley Bend	1025
<i>Fabiano Gamberi, Michael Marani</i>	

Dynamic Characterization of Fracture Geometry through Bayesian Inversion of Production History	1026
<i>Emmanuel Fetel, Sarah Vitel, Laetitia Mace</i>	
Reevaluation of the Majunga and Morondava Basins, Madagascar.....	1027
<i>Gloria Eisenstadt, Dave Bushnell, Barry Rodgers, Jackie Reed, Alfred Berroteran</i>	
Shale Gas Resources of Utah: Assessment of Previously Undeveloped Gas Discoveries..	1028
<i>Steven Schamel</i>	
Interpretation of Bounding Surfaces within Tidal Deposits: How Much Can We Reduce the “Fog Index”?	1029
<i>Shuji Yoshida, Ron J. Steel, Robert Dalrymple, James MacEachern, Kerrie Bann</i>	
Sedimentology and Significance of Linked Turbidite-Debris Flows in the West Crocker Fm (Oligocene-Miocene), NW Borneo, Malaysia	1030
<i>Abdullah Adli Zakaria, Howard D. Johnson, Christopher A.L. Jackson, Felix Tongkul, Paul D. Crevello</i>	
3D-Modelling of Coastal Plain Deposits from the Blackhawk Formation, Eastern Utah.....	1031
<i>Christian Göran Carlsson, Tor Sømme, Håvard Enge, Simon John Buckley, John Anthony Howell</i>	
Build-and-Fill Sequences in Carbonate Systems: An Emerging Picture	1032
<i>Evan K. Franseen, Robert H. Goldstein, Marcello Minzoni</i>	
Studies on Hydrocarbon Migration in Tertiary Formations in The Chengbei Step-Fault Zone, Bohai Bay Basin, China	1033
<i>Xiaorong Luo, Likuan Zhang, Qianjin Liao, Junqing Su, Shuqin Yuan, Haiming Song, Bo Zhou, Ping Hou, Changhua Yu</i>	
Petroleum Systems of Emerging and Future Importance in the Arctic Alaska Petroleum Province	1034
<i>David W. Houseknecht, Kenneth J. Bird, Jonathan Bujak</i>	
Pathways, Rates, and Mechanisms of Fluid Flow at the Bay Marchand Field, Offshore Louisiana	1035
<i>Jennifer L. Castle, Jeffrey S. Hanor, Jeffrey A. Nunn</i>	
Exploration for Natural Gas from Deeply Buried Coal Seams in Southwestern Oregon	1036
<i>Steve Pappajohn, David May, Russell Ralls, George Hampton, III</i>	
Upscaling Core Plug Data to Reservoir Modelling Grid: A Small-Scale Heterogeneity Modelling Approach	1037
<i>Renjun Wen, Philip Ringrose, Kjetil Nordahl</i>	
Changing Paradigms in Carbonate Diagenesis.....	1038
<i>Robert H. Goldstein, Jennifer A. Roberts, Luis A. Gonzalez</i>	
Understanding Quartz Overgrowth Generation.....	1039
<i>Marsha French, Joann Welton, Mike Braun</i>	
Natural Gas From Coalbeds Exploration Along the South Coast of Oregon: A 21st Century Approach to Natural Resource Exploration in Sensitive Environments	1040
<i>Margaret A. Halferty, Steven P. Pappajohn</i>	
Concepts of Chalk Burial Diagenesis: Porosity Preservation and Pore-filling Cementation	1041
<i>Ida Lykke Fabricius</i>	
Velocity Structure of Subaerial Debris Flows Transforming into Turbidity Currents	1042
<i>Hajime Naruse, Yu Saito, Fujio Masuda</i>	
Sedimentology and Ichnology in Mixed-Energy Coasts.....	1043
<i>ByongCheon Yang, Murray Gingras, Bob Dalrymple, George Pemberton</i>	

Herrera Sandstones in the Southern Basin Area, Trinidad: Evidence of Hyperpycnites Deposited Away From Ancient Oficina Delta Systems in Eastern Venezuela.....	1044
<i>Helena Gamero Díaz, Jo Reader, Chris Izatt, Carlos Zavala, Carmen C. Contreras F</i>	
Constraining Fracture Systems with Seismic Attributes: Teapot Dome, Wyoming	1045
<i>Scotty Salamoff, Dennis L. Harry, Jerry F. Magloughlin</i>	
Paleoceanographic Cause for Nannofossil Biostratigraphic Discordance between Adjacent Nearshore and Deepwater Localities in the Upper Maastrichtian of the Atlantic Margin, Southern United States	1046
<i>David K. Watkins, Jean M. Self-Trail</i>	
Integrated Fine-scale Temporal and Spatial Controls on Carbonate Sedimentation	1047
<i>Harold R. Wanless</i>	
Fluvial Sediment Supply to the Shelf and Deepwater in a Cool Lowstand World: Modeling Results for the Late Quaternary Gulf of Mexico	1048
<i>Mike Blum, Jill Hattier-Womack</i>	
Latest Guadalupian (Middle Permian) Radiolarians from the Reef Trail Member of the Bell Canyon Formation, West Texas	1049
<i>Amy L. Maldonado, Paula J. Noble, Gorden L. Bell, Yuxi Jin</i>	
The Irvine Ranch National Natural Landmark, Orange County, CA: A Geologic Record that Preserves The Major Tectono-Stratigraphic Events of The Greater Los Angeles Basin Region And A Natural Laboratory for Neotectonic Research.....	1050
<i>John D. Cooper</i>	
SECA Fuel Cells Promote Cost Reduction and Fuel Versatility	1051
<i>Wayne A. Surdoval</i>	
Hugoton Geomodel: a Hybrid Stochastic-Deterministic Approach.....	1052
<i>Geoffrey C. Bohling, Martin K. Dubois, Alan P. Byrnes</i>	
Syndepositional Fracture Patterns of the Devonian Reef Complexes, Canning Basin, Western Australia.....	1053
<i>Ned Frost, Leonel Gomez</i>	
Sequence-Stratigraphic Evidence for Late Quaternary Faulting and Folding in the Long Beach and Torrance Plains, Los Angeles Basin, California.....	1054
<i>Daniel J. Ponti</i>	
San Juan Basin Enhanced Coalbed Methane (ECBM)-Carbon Storage Pilot: Role of Pre-Injection Site Characterization in Project Design	1055
<i>Genevieve B.C. Young, Fatma B. Gorucu, Scott R. Reeves</i>	
Syn-Kinematic Effects on Depositional Facies and Stratigraphic Architecture within a Slope Valley Fill: Implications for Reservoir Distribution and Modeling	1056
<i>Ciaran J. O'Byrne</i>	
Formation And Diagenesis of Encrinite Facies in Hydrocarbon Plays: Predicting Which Encrinite Types Have The Highest Reservoir Potential	1057
<i>William T. Phelps</i>	
Clues to Evolution of an Intracontinental, Transtensional Basin System: Clastic Sequence Geometries in the Bohemian Cretaceous Basin, Central Europe.....	1058
<i>David Ulicny, Lenka Spicakova, Jiri Laurin, Radomir Grygar, Stanislav Cech</i>	
Sensitivity of Clinoform Geometry to Geological Processes Operating on the Continental Shelf and Slope	1059
<i>Vanessa Kertznus, Ben Kneller, Mason Dykstra</i>	
Out of Sequence Thrusting along the Frontal Ouachitas-Arkoma Basin Transition Zone, Southeastern Oklahoma	1060
<i>Ibrahim Cemen, Surinder Sahai, William Parker, Wahab Sadeqi, Marline Collins, Steve Hadaway, Osman Kaldirim</i>	

Criteria for Differentiating Channel and Sheet Reservoirs: A Deep-Water Field Example....	1061
Charles E. Stelting, Jennifer Beall, Lisa Goggin, William H. Crane, William J. Schweller, Janet Murphy, Michael Richey	
Identification & Characterization of Faults & Folds Using Borehole Electrical Images	1062
Robert J. Davis	
Extending Eaton Exponents: beyond P-Wave Velocities	1063
Daniel Andrew Ebrom, Martin L. Albertin, Phillip Heppard	
Delta C and Delta O enrichment near cycle tops and sequence boundaries in the Capitan backreef, McKittrick and Slaughter Canyons	1064
James W. Bishop, Dawn Y. Sumner, David A. Osleger, Isabel Montanez, Scott W. Tinker	
Outcrop Study of Heterolithic Tidal Sandstone Bodies in Northeast Greenland (Jameson Land) for Reservoir Characterization.....	1065
Juha Matti Ahokas, Allard W. Martinius, John Suter	
Modeling Variable-Saturation Multi-Relative Permeability Layered Systems in Transition-Zone Environments.....	1066
Alan Byrnes, Saibal Bhattacharya	
Foraminiferal Response to Downslope Sand Transport Processes and Seafloor Morphology Offshore Fraser Island, Australia	1067
Claudia J. Schroder-Adams, Ron Boyd, Kevin Ruming, Marianne L. Sandstrom	
Co-located Collaborative Use of Virtual Environments	1068
Thorsten Holtkämper, Sascha Scholz, Armin Dressler, Manfred A. Bogen	
The Latemàr—A Matter Of Competence	1074
Sven O. Egenhoff, Arndt Peterhänsel	
Differential GPS-Mapping Reveals Lagoonal Paleorelief of the “Layer-Cake” Latemàr Buildup, Dolomites, Northern Italy.....	1075
Arndt Peterhänsel, Gordon Schlögl, Ines Voigt, Uwe P. Baaske, Sven O. Egenhoff, Maria Mutti	
Production Planning for US Tar Sands.....	1076
James W. Bunger, Anton R. Dammer	
A Characterization of the Pebble Shale Unit and Lower Hue Shale within the Northeast Brooks Range, Alaska: What's with the High Radioactive Zone?	1077
Dolores A. van der Kolk, Michael T. Whalen, Marwan A. Wartes, Rainer J. Newberry	
Fracture Development in Salt Dome Caprock, Hardin County, Texas	1078
Alfred Lacazette, Andrew R. Thomas, Dennis Kuhfahl	
Opportunity from Complexity: the Northern Gulf of Mexico, Offshore U.S	1084
David I. Rainey, Cindy A. Yeilding, Mark Golborne, Larry E. Archibald, Chuck Guderjahn, Gerhard E. Pfau	
Depositional Environments, Cyclostratigraphy, and Paleoclimatic Signals of Lower to Middle Jurassic Fluvial-Lacustrine Deposits, Northern Bogda Mountains, Southeastern Junggar Basin, Northwestern China.....	1085
Wan Yang, Qiang Guan, Jihong Li, Xiaohui Zhang, Jun Han, Wei Guan, Fan Song, Wenqiang Yang	
Multiphase Simulations of Alternative Production Scenarios in Fractured Reservoirs.....	1086
Huabing Wang, Craig Forster, Yao Fu, Chung-Kan Huang, Yi-Kun Yang, Milind Deo	
Combining Visualization, Simulation, and Collaboration Tools for Next Generation Decision Environments	1087
Perry A. Miller, Jessica L. Block	
Testing Experimental Concepts for Oblique Rifting with Outcrop Data from the Western U.S.A. and Subsurface Data from European Basins.....	1088
Robert J. Hooper, Ken McClay, Lech Antonowicz, Ewa Iwanowska, Ian Walker, Tim Austin	

High Amplitude Climate Variability in a Tropical Rift-Lake: Correlation of Drillcore and Seismic Reflection Data in Lake Malawi, East Africa.....	1089
<i>R.P. Lyons, C.A. Scholz, J.W. King, A.S. Cohen, T.C. Johnson</i>	
Fluvial Sandstone-Body Dimensions and Reservoir Connectivity within a Meandering to Braided System: An Example From the Williams Fork Formation, Piceance Basin, Colorado	1090
<i>Matthew J. Pranter, Henrikus Panjaitan, Quentin A. German, Zulfiquar A. Reza, Rex D. Cole, Neil F. Hurley, Donna S. Anderson</i>	
Automated Classification of Sedimentary Units in Drill Cores and Outcrops using high-resolution Hyperspectral Imaging and Neural Networks	1091
<i>Daniel Eduardo Ragona, Bernard Minster, Tom Rockwell</i>	
Coal Seam Methane Potential, Resources, and Exploration Targets in the Sydney-Gunnedah Basin, Australia	1092
<i>Andrew R. Scott, Douglas S. Hamilton, Aristeo M. Mantaring, Steve Cozens, Donna F. Balin</i>	
Application of Climatic Changes to Understand Sedimentary Processes and a Tool to Refine the Stratigraphy in Brazilian Sedimentary Basins - An Overview	1093
<i>Nilo Chagas de Azambuja Filho, Alvaro H. Arouca de Castro, Armando A. Scarparo Cunha, Carlos Roberto Becker, Clovis Francisco Santos, José Guilherme R. da Silva, José M. Cronemberger Mendes, Maria do Carmo G. Severino, Paulo R. C. Cunha, Ricardo Latge M. de Azevedo</i>	
Promises and Problems of Two-Dimensional Nonmarine Sequence Stratigraphic Analysis Using Hierarchical Depositional Cycles	1094
<i>Wan Yang, Qiao Feng, Yiqun Liu, Neil Tabor, Stephanie Thomas, Yi Yang, Guozi Sun, Bei Sun</i>	
Depletion-induced Stress Orientation Changes in Bounded Reservoirs	1095
<i>Amy D. F. Day-Lewis, Mark D. Zoback</i>	
Textural Trends in a Conglomeratic Slurry Flow Deposit, Cretaceous Cerro Toro Formation, Chile: Implications for Debris Flow Transformation	1096
<i>William H. Crane</i>	
North American Unconventional Oil Resources: Electronic Access to Technical, Legal, Environmental and Economic Issues.....	1097
<i>Raymond A. Levey, Phillip Smith, Milind D. Deo, Robert Keiter, Mike Lemmon</i>	
Identification and Characterization of Subsurface Cave Systems Using Micro-Resistivity Image Wireline Logs	1098
<i>L. Mark Larsen, Robert Loucks</i>	
Estimating Macroscopic Mechanical Properties Via Grain-Scale Simulations	1099
<i>Ran Holtzman, Dmitriy, B. Silin, Tadeusz W. Patzek</i>	
Wilmington Structure, Long Beach, California: a Strike-Slip Restraining Bend Popup?	1100
<i>Mark R. Legg, Scott W. Prior</i>	
Deconvolution and Mapping of Soil Gas Anomalies in Surface Prospecting: A New Approach Based on Bayesian Geostatistics	1101
<i>Felix T. T. Goncalves, Fernando H. Pulgati, Ricardo P. Bedregal, Flavio L. Fernandes, Jason T. G. Carneiro</i>	
Investigating the Origin of Neogene Dolomites Using Non-Conventional Trace Elements	1102
<i>Kathleen Willis, Peter K. Swart</i>	
Paleogeography of the Bluesky Formation, Greater Boyer Area, NW Alberta.....	1103
<i>Kimberly D. Robinson, S. George Pemberton, Murray Gingras</i>	
Current Control on Deep-Water Coral Mounds: Questioning an Emerging Paradigm.....	1104
<i>Gregor P. Eberli, Mark Grasmueck, Miriam S. Andres, Thiago Correa</i>	
An Examination of the Structure and Stratigraphy in the Southern Sabine Uplift.....	1105
<i>Chad TJ Phillips</i>	

Structural Style and Timing in the Narraway Area, Foothills Belt, Alberta: Implications for Fracture Distribution and Hydrocarbon Exploration.....	1106
<i>David R. Richards, Rob Scammell, Martin Armitage, Michael Doe</i>	
Depositional Environment of the Late Paleocene Canyon Coal Seam in Northeastern Wyoming	1107
<i>Charles R. Nelson</i>	
Paleogeography of Uncompahgre Uplift during Early-Medial Pennsylvanian Revealed by Progression of Siliciclastic Wedges in the Paradox Basin, Colorado and Utah.....	1108
<i>Donald L. Rasmussen</i>	
Complex High-Resolution Lacustrine Record of Laramide Tectonism: Green River Formation, Wyoming	1109
<i>M. Elliot Smith, Alan R. Carroll</i>	
Thermo-Mechanical Basin Modeling along Camamu-Almada Basin, Brazil.....	1110
<i>Ricardo Perez Bedregal, Garry David Karner, Felix T.T. Goncalves</i>	
Diagenetic Controls on Spatial Arrangement of Fractures: an Example from the Cupido Fm., Sierra Madre Oriental, Mexico.....	1111
<i>Leonel Gomez, Randall Marrett</i>	
Microbial Community Structures Correlated with Geochemistry: a DNA-based Exploration Technology	1112
<i>Dago Dimster-Denk, Matthew Ashby, Emmanuel Mongodin, Karen Nelson, Thomas Lorenson</i>	
Basin Modeling Approach to Fault Seal Prediction through Geologic Time.....	1113
<i>Marek Kacewicz, Russell Davies, Matthew Johnson, Gavin Lewis, Andrew Thomas</i>	
The Nechako Basin: New Insights into a Cordilleran Intermontane Basin.....	1114
<i>Filippo Ferri, Janet Riddell, Lavern Stasiuk, Arthur Sweet, Paul O'Sullivan</i>	
What Is the Shelf Break?	1115
<i>Art Donovan</i>	
Planktic Foraminiferal Paleoecological Events - Tool for High Resolution Biochronostratigraphic Correlations – Cenomanian-Turonian Time, San Felipe Formation, NE Mexico	1116
<i>Dragana D. Nebrigic</i>	
Delineating a Diatomite Reservoir Extension of the Casmalia Field, Santa Barbara County, California	1117
<i>Mark L. Wilson, E. L. Berger, R. Elias</i>	
Storm Events in Geological Record - a Lecture from 92 MYA	1118
<i>Dragana D. Nebrigic, Boyan K. Vakarelov</i>	
Paleokarst Evolution of the Ordovician Pogonip Group near Beatty, NV.....	1119
<i>Robert J. Kervin, Dr. Adam Woods</i>	
Forward and Inverse Modeling of Fault-Bend Folding.....	1120
<i>Christopher D. Connors, Simon Levy, Amanda Hughes</i>	
Slope Terrains: A Critical Factor in Explaining and Predicting the Distribution and Type of Slope Reservoirs	1121
<i>Art Donovan</i>	
Naphthenic Acid Distribution in Crude Oils: Effects of Biodegradation.....	1122
<i>ZhengZheng Chen, J. Michael Moldowan</i>	
Devonian Reefal Platforms of the Canning Basin - Lessons Learned and Value as Analogs	1123
<i>Charles Kerans, Paul Harris</i>	
Stratigraphic Variations within the Sego Sandstone, Book Cliffs, Central Utah.....	1124
<i>Brian J. Willis, Matthew Fey, Eric Robinson, Stanley Scott Birkhead</i>	

Highstand Sandy Deepwater Fans: Incorporating Sediment Supply, Sea Level and Basin Architecture into The Prediction of Sand Bypass to The Basin Floor	1125
<i>Cristian R. Carvajal, Ron Steel</i>	
Lacustrine to Fluvial Transition in the Tertiary Wasatch Formation, Three Canyons, Desolation Canyon, Utah	1126
<i>Grace L. Ford, Piret Plink-Borklund, Marieke Dechesne</i>	
Linking Tectonic and Sedimentary Events in the Northern Caribbean and Southern Gulf of Mexico.....	1127
<i>Sylvia Nordfjord, Alejandro Escalona, Paul Mann, William Galloway</i>	
Integrated Structural and Fracture Modeling of a Structurally Complex Reservoir, Llanos Foothills, Colombia	1128
<i>Alberto Ortiz F, German Meza C, David R. Richards</i>	
Reservoir Characterization and Geocellular Modeling of Deep-Water Sandstones in the Ranger Zone of the Long Beach Unit, East Wilmington Field, California	1129
<i>Robert S. Tye, Creties Jenkins, Don Michel, Scott Grasse, Genliang Guo, Scott Prior</i>	
Three-Dimensional Connectivity of Channel Point Bar Architectural Elements.....	1130
<i>Brian Willis</i>	
Integration of Palynology and Sequence Stratigraphy in the Analysis of Miocene Siliciclastic Aquifers, Delaware, USA	1131
<i>Peter P. McLaughlin</i>	
New Kinematic Model for the Palos Verdes and San Pedro Basin Fault Zones in Santa Monica Bay, Offshore Southern California.....	1132
<i>Phillip J. Hogan, Aaron Broughton, Kevin Smith, Mark Legg, Tom McNeilan, Robert R. Male</i>	
Effects of Mechanical Stratigraphy and Structural Position on Fracture Development as Observed in Core from Elk Hills Field, California	1133
<i>Michael R. Gross, Tania C. Campbell, Jon R. Schwalbach, Timothy L. Davis</i>	
Neoichnologic Experiments with Modern Scarabaeid Beetle Larvae: Implications for Backfilled Trace Fossils in Permian Continental Deposits, Hugoton Gas Field, Western Kansas	1134
<i>John W. Counts, Stephen T. Hasiotis</i>	
Congo Canyon Evolution: Subsurface and Geohazard Analysis	1135
<i>Ricardo I. Combellas Bigott, Michael Angel, Neil Delfino, Dan Orange, Kent Rinehart, Nigel Tootill</i>	
Is It Time for a Rebirth in The Geologic Application of Climate Models?	1136
<i>Eric J. Barron</i>	
Reservoir Characterization, Modeling and Simulation of a Braided Channel Complex at Cambridge Cove, Nova Scotia	1137
<i>Peter Mulcahy, Yawooz Kettanah, Lawrence Plug, Hasley Vincent, Grant D. Wach</i>	
Rank Reservoir Connectivity Using Dynamic Data	1138
<i>Hong Tang, wei Xu</i>	
Seismic Modeling of Geological Sequences and Fluid Filled	1139
<i>Ramon Asuaje, Evgeny Chesnokov</i>	
Regional Late Paleozoic Tectono-Stratigraphic Settings and Perspectives for Discoveries at the Pricaspian Basin's North-Western Margin, Russia	1140
<i>John Dolson, Yuri Nikitin, Sergei Ostapenko</i>	
Continental Ichnofossils as Climate-Indicator Proxies in Deep Geologic Time: Integrating Ichnology and paleopedology to Access Changes in Paleohydrology and Paleoclimate.....	1141
<i>Stephen Hasiotis, Mary J. Kraus, Jon J. Smith, John W. Counts, Daniel Woody</i>	
Fault-Related Hydrothermal Alteration: An Important Model for Carbonate Reservoir Diagenesis.....	1142
<i>Langhorne Smith, Graham R. Davies</i>	

Outcrop Analog for Hydrothermal Dolomite Reservoirs, Mohawk Valley, New York	1143
<i>Brian Slater, Richard Nyahay, Langhorne B. "Taury" Smith</i>	
Numerical Modeling Analysis of the Role of Episodic Fault Overpressuring and Rupture in Methane Transport and Massive Calcite Cementation in the Santa Barbara Basin, California	1144
<i>Martin Appold, Grant Garven, James R. Boles, Peter Eichhubl</i>	
Impact of Biogenic Methane Generation on Formation of Dolomite Reservoirs	1145
<i>Paul Kenward, Luis Gonzalez, Robert H. Goldstein, Jennifer A. Roberts</i>	
High-Angle Oblique-Slip Faults in the Southern Eel River Basin: Forearc Deformation at Migrating Triple Junction.....	1146
<i>Janet Yun, J. Casey Moore, N. Driscoll, Danny O'Shea, Leah Hogarth</i>	
Sampling and Data Collection Strategies for Minimizing Inaccuracy in Predictive Pre-Drill Reservoir Quality Model Simulations	1147
<i>Rick Tobin</i>	
Virtual Reality, Supercomputers, and Your Data or How to Use Technology to Understand the World Around Us	1148
<i>Carolina Cruz-Neira</i>	
Applying Human Factors & Design Principles to Geoscience Visualization.....	1149
<i>Mary Cole, Ann Worrel</i>	
Wave 3: Broad Technology Trends and Their Effect on the Next Generation of Collaborative Visualization Environments	1150
<i>Theo Mayer</i>	
Visualization and Volume Interpretation Change the Game. Now How Do We Change the Team	1151
<i>Kevin J. Bradford, Peter U. Diebold</i>	
Effectiveness of Grain Coatings on Preserving Reservoir Quality in High-Temperature, Deep Burial Settings	1152
<i>Rick Tobin</i>	
Geophysical Data in 3-D Geographic Information Systems (GIS)	1153
<i>John D. Grace</i>	
Tempo and Modes of Climate Variability: Perspectives From Deep-Time Rift Basins	1154
<i>Paul E. Olsen</i>	
Devonian Aged Shale Gas Potential of the Southern Tier of New York.....	1155
<i>Basim Faraj, James Duggan</i>	
3D Stratigraphic Modelling in Complex Tectonics Area	1156
<i>Didier Granjeon, Sylvie Wolf</i>	
Microquartz Grain Coatings and Inhibited Quartz Cementation: An EBSD Study of the Way Microquartz Cement Grows	1157
<i>Richard H. Worden, S.C. Haddad, D.J. Prior, P.C. Smalley</i>	
Glide Planes to Turbidites; Deep Water Carbonate Megabreccias, Oligocene, Spain	1158
<i>S. Agar, J. Bova, A. Derewetzky, N. Hartley, P. Hillock, T. Hughes, C. Iannello, A. McKerron, T. Simo</i>	
Controls on Fluvial Incision of Continental Shelves.....	1159
<i>Sergio Fagherazzi, Alan Howard, W. Niedorodac, Patricia Wiberg</i>	
Stratigraphic Evolution of Erosional-to Levee- Confined Channel - Complexes, Offshore West Africa	1160
<i>Frode Hadler-Jacobsen, Michael H. Gardner, William Shea</i>	
Regional Petroleum Systems Evaluation and New Play Identification in an Uplifted Paleozoic Basin: Arkoma Basin, Oklahoma, USA.....	1161
<i>Harris Cander, Thomas L. Patton</i>	

Central Utah Thrust Belt: East Vergent Sevier Thrusts and a Laramide Back Thrust Combine to Create Very Large Reserves	1162
<i>Michael L. Pinnell, Floyd Moulton</i>	
Geothermal Energy: An Overlooked Resource in the Midlands	1163
<i>William Gosnold, Daniel F. Merriam, David D. Blackwell</i>	
Prolific Gas Production from Low-Permeability Sandstone Reservoirs - Part II: Reconciling Basin History, Fluid Saturations, Gas Shows, and Capillary Pressure	1164
<i>Keith W. Shanley, Robert M. Cluff, John W. Robinson</i>	
Trends in Visualisation.....	1165
<i>Howard Chan, Cliff Lovelock</i>	
Net Pumping of Sediment Into Deep Water Due To Base-Level Cycling	1166
<i>Wonsuck Kim, Chris Paola, John Martin, Marty Perlmuter, Frederick Tapaha</i>	
Forcing Mechanisms in Sequence Stratigraphy and the use of Simple Large-Scale Forward Numerical Models.....	1167
<i>Jeffrey Geslin</i>	
Computer Modeling of Subaerial and Subaqueous Meandering Channels	1168
<i>Tao Sun, Gary Parker, Kaveh Ghayour, Robert Wellner</i>	
Characterizing Thermochemical Sulphate Reduction: Towards Making Predictions of Sour Gas in Sedimentary Basins	1169
<i>Richard H. Worden</i>	
Three Things We Thought We Understood About Shale Gas, but Were Afraid to Ask	1170
<i>Robert M. Cluff, Keith W. Shanley, Michael A. Miller</i>	
Horizontal Wells and the Barnett Shale Play-Borehole Images Provide a Different Perspective	1171
<i>L. Mark Larsen</i>	
High-Resolution, Three-Dimensional Outcrop Modeling of a Fluvial-Dominated Deltaic Reservoir Analogue	1172
<i>Peter E. K. Deveugle, Matthew D. Jackson, Gary J. Hampson, Craig S. Calvert</i>	
The 2007 SPE/AAPG/WPC/SPEE Reserves and Resources Classification, Definitions and Guidelines. Defining the Standard!.....	1173
<i>John R. Etherington, Ronald Harrell</i>	
Understanding The 2007 SPE/WPC/AAPG/SPEE Resource Classification System Through The Development of a Project From Concept To Production.....	1178
<i>John Hodgin, Ronald Harrell</i>	
Insights from Basin Modeling on Dynamics of Hydrocarbon Systems and Distribution of Material Plays	1179
<i>Rod Nourse, Robin Hamilton, John Stainforth, Larry Garmezy</i>	
Identifying New Material Hydrocarbon Plays. The Challenge and an Approach.....	1180
<i>Robin Hamilton, David Steele, Colin Grant, Pedro Restrepo-Pace, Larry Garmezy</i>	
Gravity Flow Evolution During Transition From By-pass to Deposition: Results From High Resolution Seafloor Observations of a Modern Sand Lobe System	1181
<i>Andrey M. Akhmetzhanov, Neil H. Kenyon, E. L. Habgood, C. O'Byrne, Russell B. Wynn, M. K. Ivanov</i>	
New Insights Into Erosional Processes of Giant Turbidity Currents and Distal Development of Linked Debrites	1182
<i>Russell B. Wynn, Peter J. Talling, Bryan T. Cronin, Andrey A. K. Akhmetzhanov, Michael Frenz, Douglas G. Masson, UK Taps Group</i>	
Process Based Modelling of Deep Marine Reservoir Systems	1183
<i>Tor E. Aas, Ragnar Hauge, Bjorn Fjellvoll, Petter Abrahamsen, John Howell, Stephen Tucker</i>	

Seismic Record of Drift Deposits, Offshore Western Madagascar: Implications for Regional Tectonics and Sedimentation.....	1184
<i>Benjamin C. Burke, Jeffrey U. Kraus</i>	
Thermotectonic Evolution of the Cap St. André Arch and its Influence on Deepwater Depositional Systems in Northwest Madagascar	1185
<i>Jeffrey U. Kraus, William A. Matthews, Lanirina Ronosrosoa</i>	
Modeling Near-surface Porosity Evolution in Isolated Carbonate Platforms: a New Diagenetic Scheme for the CARB3D+ Forward Simulation Model	1186
<i>Peter L. Smart, Fiona Whitaker, Richard Paterson, David Oldham</i>	
Processes and Modeling of Deep Water Flows: the Evolution of Hybrid and Transitional Flow Types	1187
<i>Peter Haughton, William McCaffrey, Christopher Davies, Simon Barker</i>	
Deep-Water Turbidites and Their Equally Important Shallower Water Cousins	1188
<i>Emiliano Mutti, Roberto Tinterri, Pierre Muzzi Magalhaes, Gustavo Basta</i>	
Play Concepts Based on New Stratigraphic Methods - Two Examples from the Dutch	1193
<i>Oscar A. Abbink, Harmen F. Mijnlieff, Dirk K. Munsterman, Roel M.C.H. Verreussel</i>	
Recent and Potential Growth of Known Recoverable Oil in California, U.S.A	1199
<i>Marilyn E. Tennyson</i>	
The Historical Resource and Recovery Growth in Developed Fields, Arctic Slope of Alaska	1204
<i>Jack Hartz, Robert Swenson</i>	
The Oil Recovery Growth Potential of the Permian Basin.....	1208
<i>Richard Nehring</i>	
Current and Future Perspectives on Recovery Growth from the Western Canada Sedimentary Basin.....	1210
<i>K.G. Osadetz, Zhuoheng Chen</i>	
Reserve Growth in Oil Fields of West Siberian Basin, Russia.....	1215
<i>Mahendra K. Verma, G.F. Ulmishek</i>	
Oil and Gas Resources of the Arctic Alaska Petroleum Province	1219
<i>D. W. Houseknecht, Kenneth J. Bird</i>	
The Future Oil Discovery Potential of the mackenzie/Beaufort Province.....	1222
<i>Zhuoheng Chen, Kirk Osadetz, James Dixon, Giles Morrell, J.R. Dietrich</i>	
The Future Discovery Potential of the California OCS.....	1227
<i>Kenneth A. Piper, Maher Ibrahim</i>	
Undiscovered Oil Resource Assessment of the Deepwater Sectors of Two Key West African Basin.....	1230
<i>Tom Wilson, Simon Otto, Mark Cowgill, Fugro Robertson</i>	
Undiscovered Oil Resource Assessment of Libya: The Sirte and Murzuq Basin.....	1232
<i>Simon Otto, Tom Wilson, Mark Cowgill, Fugro Robertson</i>	
Future Discovery Potential in the Kutei basin (Indonesia).....	1234
<i>Jack English, J. Ceron, D. Weaver, Arthur H. Saller, J. Curicle</i>	
Understanding Alberta's Bitumen Resources	1239
<i>Richard A. Marsh</i>	
Nonconventional Oil from Shales - Potential Recovery Methods and Economics of Recovery from Oil from Rich, Mature Source Rocks.....	1242
<i>Jeffrey Eppink, Robert Ferguson, Vello Kuuskraa, Keith Moodhe</i>	
Re-Developing Europe's Largest Onshore Oilfields – How to Justify New 3D Seismic for Schoonebeek	1245
<i>M.A.M. Van Dongen, H. Priebel, Koos Pipping, G. Warren, G. Tiley, C. Townsend</i>	

Stochastic Fault Seal Analysis and Reservoir Simulation for Fields with Thin Layers and Many Faults (Best of EAGE)	1250
<i>B.Z Shang, H.D. Yang, S.A. Bourgeois</i>	
Deep Play Exploration in the Mature Niger Delta Basin – An appraisal of Risks and Challenges (Best of EAGE).....	1255
<i>Babatope Olaleye, R.N. Basorun</i>	
First Gas after 40 Years – The Geophysical Challenges of the Saturn Gas Complex	1260
<i>S.D. Elam</i>	
Integrated Geological Model of Balaton-Lineament as a key to Success of Exploration and Exploitation (Best of EAGE)	1265
<i>Josvai Josvai, Andras Nemeth, I. Czeller, A. Szuromi-Korecz</i>	
Comparison of Leadon and Gryphon Fields Sand Injectites - Occurrence and Performance	1270
<i>G. Templeton, A. McInally, A. Melvin, T. Batchelor</i>	
A New Approach to Quantifying Uncertainties, from Seismic Characterisation to Hydrocarbons in Place	1275
<i>J.M. Guemene, B. Paternoster, S. Toinet, P. Biver, T. Gordon, H. Declerc</i>	
Stratigraphic and Structural Relations in the Permo-Pennsylvanian Cutler Formation of the Proximal Paradox Basin, Colorado	1280
<i>Katherine Moore, G.S. Soreghan</i>	
Current Technology for Production of Shale Oil	1281
<i>Jeremy Boak</i>	
Oil and Gas Resources of the North African Trias/Ghadames Petroleum Province	1284
<i>Bob Lunn, Allan F. Driggs, Patrick Thompson, Philip Farfan, Patrick Thompson, Francois Gauthier</i>	
Tarim Basin: Petroleum Geology and Future Discovery Potential	1286
<i>Guangya Zhang, Wen-zhi Zhao, Xin-yuan Zhao</i>	
Recognizing Geochemical Facies to Improve Oil Shale Resource Assessment and Development	1288
<i>Tim E. Ruble, Brian Jarvie, Michael D. Lewan, R. Paul Philip, Daniel M. Jarvie</i>	
Michel T. Halbouty Lecture: Current petroleum Exploration Trends: Prudent Investments or Irrational Exuberance?	1291
<i>Kurt W. Rudolph</i>	
A Regional Overview of the Exploration Potential of the Middle East	1292
<i>Alastair Fraser, Jeremy Goff, Bob Jones, Christoph Lehmann, Ivor Simpson</i>	
Characteristics and Applications of Behind-Outcrop Borehole Image Logs of Deepwater Strata.....	1293
<i>Roger Slatt, Robert J. Davis, Aaron Rothfolk</i>	
The Role of Nuclear Power in Achieving a Sustainable Energy Distribution by 2040.....	1294
<i>James Conca</i>	
Method for Conditioning the Reservoir Model on 3D and 4D Elastic Inversion Data Applied to a Fluvial Reservoir in the North Sea.....	1295
<i>T. Andersen, K. Hatland, Trond Hoye, F. Liestol, G. Mangeroy, Hilde C. Meisingset, C. Otterlei, Eli Zachariassen, Art Jan Wijngaarden</i>	
Importance of Recovery Factor in Volumetric Evaluation of Fractured Carbonate Reservoirs from the Southern Gulf of Mexico	1296
<i>Javier Hernandez, Eduardo Montano, Jose Exparza</i>	

Author Index