<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is Drilling in Deepwater Gulf of Mexico Uncorking Bad Genies?</td>
<td>1</td>
</tr>
<tr>
<td>Aharon, Paul</td>
<td></td>
</tr>
<tr>
<td>Miocene Valley-Fill, Slope, and Submarine-Canyon Systems in the</td>
<td>11</td>
</tr>
<tr>
<td>Laguna Madre-Tuxpan Area, Mexico</td>
<td></td>
</tr>
<tr>
<td>Meta-Attributes: A New Concept for Reservoir Characterization</td>
<td>19</td>
</tr>
<tr>
<td>and Seismic Anomaly Detection</td>
<td></td>
</tr>
<tr>
<td>Aminzadeh, Fred</td>
<td></td>
</tr>
<tr>
<td>Semiquantitative Estimation of Carbonates in Holocene Silicilastic</td>
<td>25</td>
</tr>
<tr>
<td>Sequences of the Mississippi Delta</td>
<td></td>
</tr>
<tr>
<td>Bailey, Alan M.; Roberts, H.H.; and Pal, S.</td>
<td></td>
</tr>
<tr>
<td>Exploitation of Thin Basin-floor Fan Sandstones, Navarro Formation</td>
<td>30</td>
</tr>
<tr>
<td>(Upper Cretaceous), South Texas</td>
<td></td>
</tr>
<tr>
<td>Bain, Richard C.</td>
<td></td>
</tr>
<tr>
<td>Coalbed Methane in Late Pennsylvanian to Early Permian Coal, Kerr</td>
<td>38</td>
</tr>
<tr>
<td>Basin, Edwards County, Texas</td>
<td></td>
</tr>
<tr>
<td>Barker, Charles E.; Heck, William; and Eble, Cortland</td>
<td></td>
</tr>
<tr>
<td>How Accurately Do Offlap-Break Elevation of Shelf-phase Deltas</td>
<td>51</td>
</tr>
<tr>
<td>Record Past Sea-level Elevations? Clues from the Morphology of the</td>
<td></td>
</tr>
<tr>
<td>Mississippi River Deltas</td>
<td></td>
</tr>
<tr>
<td>Bart, Philip J. and Ghoshal, Swati</td>
<td></td>
</tr>
<tr>
<td>The Sedimentology of Muddy Coastal Systems: The Research Legacy and</td>
<td>52</td>
</tr>
<tr>
<td>New Perspectives from the Coastal Studies Institute</td>
<td></td>
</tr>
<tr>
<td>Bentley, Samuel J.; Roberts, Harry H.; and Rotondo, Kristina</td>
<td></td>
</tr>
<tr>
<td>Middle Holocene Sea-Level and Evolution of the Gulf of Mexico Coast</td>
<td>64</td>
</tr>
<tr>
<td>Blum, Michael D.; Sivers, Amy E.; Zayac, Tracy; and Goble, Ronald J.</td>
<td></td>
</tr>
<tr>
<td>How Many Species of the Fossil Rodent Copemys Occur at a Single</td>
<td>78</td>
</tr>
<tr>
<td>Prolific Screening Site in the Miocene, Fleming Formation at Fort</td>
<td></td>
</tr>
<tr>
<td>Polk, Louisiana?</td>
<td></td>
</tr>
<tr>
<td>Boardman, Grant S.; Schiebout, Judith A.; and Wrenn, John</td>
<td></td>
</tr>
<tr>
<td>Economic Biostratigraphy in the Gulf of Mexico Basin: A Review of</td>
<td>86</td>
</tr>
<tr>
<td>Application Advances, Limitations, and Challenges for the New</td>
<td></td>
</tr>
<tr>
<td>Millennium</td>
<td></td>
</tr>
<tr>
<td>Breard, S.Q.; Callender, A.D.; and Nault, M.J.</td>
<td></td>
</tr>
<tr>
<td>Large-Scale Fluid Migration Driven by Salt Dissolution, Bay Marchand</td>
<td>97</td>
</tr>
<tr>
<td>Dome, Offshore Louisiana</td>
<td></td>
</tr>
<tr>
<td>Bruno, R. Stephanie and Hano, Jeffrey S.</td>
<td></td>
</tr>
<tr>
<td>Modern Water Chemistry and Benthic Foraminiferal Abundance in Lago</td>
<td>108</td>
</tr>
<tr>
<td>Enriquillo, Dominican Republic</td>
<td></td>
</tr>
<tr>
<td>Buck, David</td>
<td></td>
</tr>
</tbody>
</table>
Investigating a Possible Link Between Water from Aquifers Containing Lignite Deposits and Kidney Disease in the USA: Louisiana Project
Bunnell, Joseph; Bushon, Rebecca; Orem, William; Tatu, Calin A.; Hanson, Bradford; Carlson, Douglas; and Shi, Runhua

Intellectual Property Rights and Geoscience Technology
Buskop, Wendy K.B.

Preliminary Examination of the Hydrogeology of the Sparta Aquifer and Adjacent Aquifers in North Central Louisiana
Carlson, Douglas

A Preliminary Examination of the Hydrogeology of the Chicot Aquifer
Carlson, Douglas and Milner, Riley

Underexplored Oil and Gas Trends of Mississippi
Champlin, Stephen D.

Exploring for Deep Gas in the Gulf of Mexico Shelf and Deepwater Using Gas Chimney Processing
Connolly, David and Aminzadeh, Fred

Wetland Loss and Barrier Shoreline Erosion along the Plaquemines Barrier Shoreline
Connor, Paul; Beall, Andrew; McCarty, Phil; Penland, Shea; and Westphal, Karen

Metal Distribution and Metal Site Partitioning, Mobile Bay Surface Sediments
Cordi, J. Ashley; Meylan, Maurice A.; and Isphording, Wayne C.

Temporal Dynamics of Paleogene Paleovegetational Response to Climatic Changes and Regional Upwelling, West Africa (ODP Site 959)
de la Rue, Sarah R. and Oboh-Ikuenobe, Francisca E.

Aspect Ratios in Coarse-Grained and Fine-Grained Submarine Fan Channels
Delery, Anne M. and Bouma, Arnold H.

Sequence Biostratigraphy and a New Nannofossil Zonation of the Pleistocene Gulf of Mexico
Denne, Richard A.

Seismic-Sequence Stratigraphy and Petroleum System Modeling of the Downdip Tuscaloosa-Woodbine, LA and TX
Dubiel, Russell F.; Pitman, Janet K., and Steinshouer, Douglas

Water Supply in Lafayette, Louisiana
Duex, Timothy W.

Geologic and Geoscoustic Study of Surficial Deposits, North-Central Gulf of Mexico Continental Shelf
Dufrene, Triniti A.; Bentley, Samuel J; and Allen, Yvonne C.
Event Sedimentation and Long-term Accumulation in a Salt Marsh: St. Louis Bay, Mississippi .......................................................... 217
Febo, Lawrence A.; Dufrene, Triniti A.; Watzke, Dana A.; and Bentley, Samuel J.

Multiple Overlapping Foraminiferal Litho-Biofacies: Applications to Deep-Water Sedimentology and Reservoir Properties of Turbidites .................................................. 227
Fillon, Richard H.

Tidal Prism Changes within Barataria Bay and its Effects on Sedimentation Patterns and Barrier Shoreline Stability .......................................................... 243
FitzGerald, Duncan; Kulp, Mark A.; and Penland, Shea

Comparisons Between Compacted and Decompacked Turbidite Systems, Tanqua Karoo, South Africa .......................................................... 252
Fridge, Judith and Bouma, Arnold H.

Neo-Tectonic Framework of Southeast Louisiana and Applications to Coastal Restoration .... 262
Gagliano, Sherwood M.; Britsch, Louis D.; Kemp, E. Burton; Wicker, Karen; Wiltenmuth, Kathleen S.; and Sabaté, Robert W.

Paleoenvironment of Paleocene Wilcox Big Shale in LaSalle Parish, Louisiana ................. 277
Glawe, Lloyd N.

Shallow Miocene and Oligocene Gas Potential: Southeastern Louisiana’s Florida Parishes .... 287
Goddard, Donald A. and Zimmerman, Ronald K.

Seismic Stratigraphy and Late Quaternary Evolution of Eastern Mississippi Sound, Alabama 302
Greene, Larry and Rodriguez, Antonio B.

Exploration Potential and High-Resolution Sequence Stratigraphy of Shelf-Sand Reservoirs, Miocene, South Mississippi .......................................................... 304
Handford, C. Robertson and Baria, Lawrence R.

Origin of a Circular Depression and Associated Fractured and Shocked Quartz, St. Helena Parish, LA .......................................................... 313
Heinrich, Paul V.

Dolomitization of the Smackover Formation and Hydrocarbon Exploration in Mississippi .... 323
Heydari, Ezat and Keyes, Monyette

Role of the Earth Scan Laboratory .......................................................... 339
Huh, Oscar K. and Walker, Nan K.

Louisiana’s Voluntary Remedial Program (VRP), A Case Study ........................................ 350
Hunter, Charles M. and Schramm, William H.

Field Studies in the Chandeleur Sound Area, Offshore Louisiana (State Waters) ............... 351
John, Chacko J.; Jones, Bobby L.; Harder, Brian J.; Bourgeois, Reed; and Miller, M. Byron

The Regional Geothermal Heat Flow Regime of the North-Central Gulf of Mexico Continental Slope .......................................................... 363
Jones, Michael L.; Nagihara, Seiichi; and Smith, Michael A.
Sedimentary Thermal Maturation Models for the Deepwater Eastern Gulf of Mexico
Jones, Kelly Opre and Nagihara, Seiichi

Shallow-marine Facies of the Orange Walk Group, Miocene-Pliocene, Northern Belize
53(Central America)
King Jr., David T.; Petruny, Lucille W.; and Pope, Kevin O.

Integrated Exploration Scheme for Lower Wilcox Coalbed Methane in Central Louisiana
Kinsland, Gary L.; Zeosky, Joseph E.; Smith, Gilbert B.; and Schneider, Robert V.

Geologic Sequestration in the Gulf Coast: Subregional Considerations
Knox, P.R.; Holtz, M.H.; Hovorka, S.D.; and Doughty, C.A.

“Reefs” as Exploration Targets in the Smackover Formation
Kopaska-Merkel, David C.

Evolution and Stratigraphy of a Recent Flood Tidal Delta: Raccoon Pass, Timbalier Islands
Louisiana
Kulp, Mark A.; FitzGerald, Duncan; Penland, Shea; and Motti, Jeffrey

Lithofacies Classification Based On Spectral Yields and Borehole Microresistivity Images
Kumar, Anish and Kear, George R.

An Assessment of the Late Holocene Record of Severe Storm Impacts
from Lake Shelby, Alabama
Lambert, W. Joe; Aharon, Paul; and Rodriguez, Antonio B.

Elevated Arsenic Levels in the Weches Formation, Nacogdoches County, Texas
Ledger, E.B. and Judy, Kathy

Petroleum Exploration for Upper Jurassic Smackover Carbonate Shoal
and Microbial Reefal Lithofacies Associated with Paleohighs, Southwest Alabama
Llínás, Juan Carlos

High-Frequency Cycles (Parasequences) in the Edwards Group, Central Texas
Lock, Brian E.; Francisco, Cardona S.; and Roberts, Jamsie

A Proposed Seismic Network for Louisiana Public High Schools—SeisMEAUgraph
Lorenzo, J.

Inferred Fracture Patterns within Overlapping Normal Fault Zones from Shallow,
High-resolution Gravity, Seismic, and Laser Altimetry (LiDAR) Data Sets:
Neotectonics along Northern Gulf Coast of Mexico, Louisiana, USA
Lorenzo, J.; Cazes, C.; Westbrook, C; and Van Heerden, I.

Lower Cretaceous Glen Rose “Patch Reef” Reservoir in the Chittim Field,
Maverick County, South Texas
Loucks, Robert G. and Kerans, Charles

Interpretation of High Resolution Seismic Data from a Geologically Complex
Continental Margin, Northern Gulf of Mexico
Lutken, Carol; Lowrie, Allen; Geresi, Erika; Bennett, Richard; Faas, Richard; Battista, Bradley; and McGee, Tom
Integrated Biostratigraphic and Sequence Stratigraphic Approach for Correlation and Basin Interpretation .......................... 517
Mancini, Ernest A. and Puckett, T. Markham

Petroleum Potential of Aggrading Sandstones of Transgressive-Regressive Cycles in the Mississippi-Alabama Area ............................................. 527
Mancini, Ernest A. and Puckett, T. Markham

Preservation Potential Of Paleocyclone Deposits In Gulf of Mexico Coastal Sediments ............................................. 537
Mertz, Lisa Marie; Hart, Marylea; and Jaeger, John

Hydrocarbon Production and Surface Expression of the China Segment of the Tepetate Fault Zone, Louisiana ............................................. 548
Miller, Byron and Heinrich, Paul

Chicot Aquifer in Jefferson Davis Parish, Louisiana ............................................. 555
Milner, Riley

Hydraulic Entrapment of Relict Saline Water within Semi-Confined Aquifer in Southwest Florida ............................................. 557
Missimer, Thomas M.; Martin, Kirk W.; and Guo, Weixing

Anatomy of a Barrier Island Beach Ridge Aquifer, Eastern Florida ............................................. 571
Mitchell-Tapping, Hugh J. and Mitchell-Tapping, Aleta M.

Rudistids of the South Florida Lower Cretaceous Sunniland Formation ............................................. 584
Mitchell-Tapping, Hugh J. and Mitchell-Tapping, Aleta M.

Exploration of the Sunniland Formation of Southern Florida ............................................. 599
Mitchell-Tapping, Hugh J. and Mitchell-Tapping, Aleta M.

3-D Interpretation Using Seismic and Non-Seismic Data from a Regional to Prospect Scale .......... 610
Mulcahy, Shawn; Millegan, Patrick S.; Bain, John E.; and Schulz, Steven E.

Enhanced Temperature Gradient in the Deep Tuscaloosa Trend—Is It Really There? .......... 611
Nelson, Philip H.

Character Of Overpressure In The Deep Tuscaloosa Trend, Louisiana ............................................. 621
Nelson, Philip H.

Land Surface Subsidence Caused by Groundwater Withdrawal in Southeastern Louisiana .......... 630
Nunn, Jeffrey A.

Reservoir Characterization and 3-D Geologic Modeling, North Blowhorn Creek Oil Field, Alabama ............................................. 639
Panetta, Brian J.

Facies Identification and Depositional Environment Interpretation, North Blowhorn Creek Field, Alabama ............................................. 649
Panetta, Brian J.
Significance of the Maximum Flooding Surface ......................................................... 659
Parcell, William C.

$^{209}$Pb and $^{137}$Cs Geochronology of the Lake Fausse Pointe Region of the
Lower Atchafalaya Basin ......................................................................................... 668
Patterson, Luke J.; Muhammad, Zahid; Bentley, Samuel J.; Britsch, L. Del; and Dillon, Douglas L.

Tropical Storm Isidore and Hurricane Lili Impact: Implications for Coastal Restoration .......... 676
Penland, Shea and Sallenger, Asbury

Fifty Years of Achievements and Service to the Geologic Community
by the Gulf Coast Section of SEPM ........................................................................ 677
Picou Jr., Edward B.

A Computer-based System for the Storage and Application of Expert Knowledge
in Paleoenvironmental Interpretations ..................................................................... 678
Platon, E. and Gary, Anthony

Regional and Local Scale Groundwater Modeling of the Chicot Aquifer System ..................... 680
Rahman, A.; Hortono, S.; and Willson, C.

Managing the Probability of Making at Least One Discovery ........................................ 681
Rhoads, George H.

An Embryonic Major Delta Lobe: A New Generation of Delta Studies in the
Atchafalaya-Wax Lake Delta System ....................................................................... 690
Roberts, H.H.; Coleman, J.M.; Bentley, S.J.; and Walker, N.

A 50-Year History of Coastal Studies Institute Contributions to Science ......................... 704
Roberts, H.H. and Coleman, J.M.

Late Quaternary Avulsion Events Preserved in Mobile Bay, Alabama ............................... 721
Rodriguez, Antonio B.; Meyer, Craig T.; and Anderson, John B.

Deposition and Resuspension of Fluid Mud on the Western Louisiana Inner Shelf ................ 722
Rotondo, Kristina A. and Bentley, Samuel J.

Pontchartrain: Frangenic Lake .................................................................................. 732
Sabaté, Robert W. and Wiltenmuth, Kathleen S.

Tropical Storm Isidore and Hurricane Lili: Louisiana Barrier Shoreline Response,
Preliminary Results ................................................................................................. 733
Sallenger, Asbury; Penland, Shea; and Krabill, William

Geochemistry of an Oil Seep and Gas Hydrate on the Lower Slope, Central Gulf of Mexico:
Significance to Paleogeography and Possible Source Rocks ....................................... 741
Sassen, Roger; Post, Paul J.; DeFreitas, Debra A.; and Sweet, Stephen T.

Remedial Technology Selection and Implementation at a Remote Gasoline Pipeline Release Site:
A Study of Proactive Impact Management Under RECAP ......................................... 755
Schramm, William H. and Jones, Jeffrey T.
Exploring “Sweet Spots” in the Deep Shelf, Gulf of Mexico ................................. 756
Shaker, Selim S. and Wornardt Jr., Walter W.

Wave Evolution in Cohesive Sedimentary Environments: Open Problems .................. 765
Sheremet, A.; Kaihatu, J.M.; Stone, G.W.; and Zhang, X.

Geology, Geological History, and Exploration Potential of the Middle and Late Miocene Natural Gas Sands of Alabama .................................................. 772
Smith, Charles C.

Coastal Observing Systems: Key to the Future of Coastal Dynamics Investigations ........... 783
Stone, Gregory W.; Zhang, Xiongping; Li, Jian; and Sheremet, Alex

Spatial Variations in the Salinity of Produced Waters from Southwestern Louisiana .......... 798
Szalkowski, D. Scott and Hanor, Jeffrey S.

Eolian Reservoir Facies within the Upper Jurassic Smackover Formation, Western-Central Mississippi: A New Exploration Target ........................................... 807
Tedesco, William A. and Major, R.P.

General Geology of the Mid-Tertiary Block 889 Field Area, Offshore Mustang Island, Texas .... 808
Treviño, Ramón H.; Loucks, Robert G.; Brown, L. Frank; and Remington, Randy L.

Impacts of Tropical Systems on the Sedimentary Fabric of the Mississippi Sound ............ 820
Velardo, Brian M; Bentley, Samuel J.; and Stone, Gregory W.

Radial Faulting Above Salt-diapir Overhangs: Natural Example, and Physical and Kinematic Models ................................................................. 828
Vendeville, Bruno C.; Fouad, Khaled; and Knox, Paul R.

Sedimentary Evidence for Turbidity Maximum Influenced Fluvial Deposition in the Modern Mahakam Delta ............................................................. 836
Vosburg, Brian and Roberts, Harry H.

Cenozoic Deformational Styles of the Laguna-madre - Tuxpan Shelf and Mexican Ridges Fold Belt, Mexico ................................................................. 846
Wawrzyniec, Tim; Fouad, Khaled; Schultz-Ela, Dan; Ambrose, William; Jennette, David; Sakurai, Shinichi; Guevara, Edgar; Aranda, Mario; Alvarado, Juan; Hernandez, Ullises; Macias, Eduardo; Roman, J.; Rosas, C.; Rosas, K.; and Salomon, L.E.

Miocene Lower Vertebrates from Fort Polk, LA: A Preliminary Report ............................ 859
Williams, Michael J. and Schiebout, Judith A.

Seismic Sequence Stratigraphic Correlation of the Placid #1 OCS-G-6932, Ewing Bank 1001 and the Shell #1 OCS-G-4888, South Timbalier, Block 292 Offshore Louisiana, Gulf of Mexico ................................................................. 866
Wornardt, Walter W.

Palynologic Age Determination of the Catahoula Formation, Big Creek, Sicily Island, Louisiana ................................................................. 867
Wrenn, John H.; Elsik, William C.; and McCulloh, Richard P.
Combining Dipmeter Measurements and Formation Imaging to Improve Reservoir Characterization ................................................................. 878
Yates, Roy L. and Le Calvez, Joël H.

Geometric Properties of Active Piercement Structures: Geologic Insights from 3-D Kinematic Models ......................................................... 888
Yin, Hongwei and Groshong Jr., Richard H.

Diagenetic Patterns and Reservoir Development in the Woodbine Formation, Tyler County, Texas ................................................................. 901
Young, G. Russell and Barrett, Mary L.

Integration of Geologic Model and Reservoir Simulation, Popeye Field, Green Canyon 116 ........ 919
Yuvancic-Strickland, Beth; Kuhl, Eric; Lee, Tin-Wai; Seldon, Benjamin; Flemings, Peter B.; and Ertekin, Turgay

Sequence Stratigraphy Models of Rift Lacustrine Basin and their Applications in Bohai Bay Basin, East China .............................................. 933
Zhang, Shiqi

Reservoir and Hydrocarbon Characteristics of Igneous Rock of Kongdian Formation in Zaoyuan Oil Field, East China ............................................... 934
Zhang, Shiqi