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ON COVER – Microbial bioherm (inset photo) and biostrome (background photo) in the Upper Cambrian Wilberns Formation along the Llano River near Mason, Texas. Bioherm was described by Wayne Ahr (1971) and is approximately 15 m thick. Photos by W.A. Morgan.

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<i>Introduction: AAPG Hedberg Research Conference on Microbial Carbonate Reservoir Characterization—Conference summary and selected papers</i> Ernest A. Mancini, William A. Morgan, Paul M. (Mitch) Harris, and William C. Parcell	1835
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RESERVOIR CHARACTERIZATION, SUBSURFACE STUDIES, AND OUTCROP ANALOGS

<i>Sedimentary features, occurrence, and cyclicity of microbialite facies in the Roubidoux and Jefferson City Formations of Missouri and Kansas</i> Chamandika Warusavitharana and William Parcell	1849
<i>Sponge-microbial mound facies in Mississippian Tuscomb Limestone, Walker County, Alabama</i> David C. Kopaska-Merkel, Steven D. Mann, and Jack C. Pashin	1871
<i>Calcsponge-microbialite reef facies, middle Permian (lower Guadalupian), northwest shelf margin of Permian Basin, New Mexico</i> Gregory P. Wahlman, David M. Orchard, and Govert J. Buijs	1895
<i>Upper Permian (Zechstein) microbialites: Supratidal through deep subtidal deposition, source rock, and reservoir potential</i> Mirosław Słowakiewicz, Maurice E. Tucker, Richard D. Pancost, Edoardo Perri, and Michael Mawson	1921
<i>Lithofacies, stable isotopic composition, and stratigraphic evolution of microbial and associated carbonates, Green River Formation (Eocene), Piceance Basin, Colorado</i> J. Frederick Sarg, Suriamin, Kati Tānavsuu-Milkeviciene, and John D. Humphrey	1937
<i>Vertical and lateral distribution of lacustrine carbonate lithofacies at the parasequence scale in the Miocene Hot Spring limestone, Idaho: An analog addressing reservoir presence and quality</i> Kevin M. Bohacs, Kathryn Lamb-Wozniak, Timothy M. Demko, Jason Eelson, Orla McLaughlin, Catherine Lash, David M. Cleveland, and Stephen Kaczmarek	1967
<i>Topographic and sea level controls on oolite-microbialite-coralgal reef sequences: The terminal carbonate complex of southeast Spain</i> Robert H. Goldstein, Evan K. Franseen, and Christopher J. Lipinski	1997

RESERVOIR MODELING

<i>Reservoir analog model for oolite-microbialite sequences, Miocene terminal carbonate complex, Spain</i> Christopher J. Lipinski, Evan K. Franseen, and Robert H. Goldstein	2035
<i>Reservoir characterization, modeling, and evaluation of Upper Jurassic Smackover microbial carbonate and associated facies in Little Cedar Creek field, southwest Alabama, eastern Gulf coastal plain of the United States</i> Sharbel Al Haddad and Ernest A. Mancini	2059

PETROPHYSICS AND GEOCHEMISTRY

<i>Three-dimensional pore connectivity evaluation in a Holocene and Jurassic microbialite buildup</i> Marcelo F. Rezende, Sandra N. Tonietto, and Michael C. Pope	2085
<i>Porosity in bacterially induced carbonates: Focus on micropores</i> Henry S. Chafetz	2103
<i>Ordered low-temperature dolomite mediated by carboxyl-group density of microbial cell walls</i> Paul A. Kenward, David A. Fowle, Robert H. Goldstein, Masato Ueshima, Luis A. González, and Jennifer A. Roberts	2113