Table of Contents

THE EDITOR’S PAGE .............................................. 145

RESEARCH ARTICLES

DIAGENESIS
The effect of stylolite spacing on quartz cementation in the Lower Jurassic Stø Formation, southern Barents Sea ......................................................... Olav Walderhaug and Per Arne Bjørkum 146
Chalk dolomitization beneath localized subsiding Tertiary depressions in a marginal marine setting in the Paris Basin (France) ............................................ Médard Thiry, Franck Hanot, and Catherine Pierre 157
Hydrocarbon pseudo-inclusions in barite: how to recognize and avoid artifacts ................................................................. A. Dutkiewicz and J. Ridley 171
Distribution of upper Cenozoic carbonate-cemented sandstones, Kuche Depression, northwest China: insights from high-resolution borehole micro-resistivity imaging ........................................... Guangfa Zhong, Zaitian Ma, Ruilin Liu, and Ningfen Wu 177
Temporal evolution of Tertiary dolostones on Grand Cayman as determined by 87Sr/86Sr ............................................................... Brian Jones and Robert W. Luth 187
Echinoderm stabilization associated with a paleokarst surface at the Mississippian–Pennsylvanian boundary in Tennessee, U.S.A. ....................................... Kenneth J. Tobin and Steven G. Diene 206

SEDIMENT TRANSPORT AND STRUCTURES
Combined-flow processes and sedimentary structures on the shoreface of the wave-dominated Grande-rivière-de-la-Baleine delta ........................................ Philip R. Hill, Samuel Meule, and Hugues Longuépée 217

SEQUENT STRATIGRAPHY
Quantitative constraints on the origin of stratigraphic architecture at passive continental margins: Oligocene sedimentation in New Jersey, U.S.A. ................................................................. Stephen F. Pekar, Nicholas Christie-Blick, Kenneth G. Miller, and Michelle A. Komiz 227
Formation of deep incisions into tide-dominated river deltas: implications for the stratigraphy of the Sego Sandstone, Book Cliffs, Utah, U.S.A. ............................................. Brian J. Willis and Sharon L. Gabel 246
Sequence stratigraphy and carbonate-siliciclastic mixing in a terminal Proterozoic foreland basin, Urussi Formation, Nama Group, Namibia ........................................ Beverley Z. Saylor 264

PALEOCEANOGRAPHY
Paleoproterozoic Stark Formation, Athapuscow Basin, northwest Canada: record of cratonic-scale salinity crisis ............................................................. Michael C. Pope and John P. Grotzinger 280
Early marine lithification and hardground development on a Miocene ramp (Maiella, Italy): key surfaces to track changes in trophic resources in nontropical carbonate settings ........................................... Maria Mutti and Daniel Bernoulli 296

PROVENANCE
Sandstone petrography of continental depositional sequences of an intraplate rift basin: western Cameros Basin (north Spain) ................................................................. José Arribas, Ángela Alonso, Ramón Max, Amparo Tortosa, Magdalena Rodas, José F. Barrenechea, Jacinto Alonso-Azcárate, and Rosana Artigas 309

RESEARCH METHODS
How to overcome imaging problems associated with carbonate minerals on SEM-based cathodoluminescence systems .................................................. Robert M. Reed and Kitty L. Milliken 328

DISCUSSION
Can dispersive pressure cause inverse grading in grain flows?—Discussion ................................................................. J.P. Le Roux 333
Can dispersive pressure cause inverse grading in grain flows?—Reply ................................................................. François Legros 335

ERRATUM
Cement geochemistry of Photozoan carbonate strata (Upper Carboniferous–Lower Permian), Finmark carbonate platform, Barents Sea ......................................................... S.N. Ehrenberg, N.A.H. Pickard, T.A. Svåä, and N.H. Oxtoby 336

BOOK REVIEWS .................................................................................................................. http://spot.colorado.edu/~jsedr/

ANOUNCEMENTS ................................................................................................................. http://spot.colorado.edu/~jsedr/