

Contents

Acknowledgements	vii
Introduction	
BOSENCE, D., GIBBONS, K., LE HERON, D. P., MORGAN, W. A., PRITCHARD, T. & VINING, B. A. Microbial carbonates in space and time: introduction	1
DELLA PORTA, G. Carbonate build-ups in lacustrine, hydrothermal and fluvial settings: comparing depositional geometry, fabric types and geochemical signature	17
CORBETT, P., HAYASHI, F. Y., ALVES, M. S., JIANG, Z., WANG, H., DEMYANOV, V., MACHADO, A., BORGHI, L. & SRIVASTAVA, N. Microbial carbonates: a sampling and measurement challenge for petrophysics addressed by capturing the bioarchitectural components	69
Neoproterozoic	
WINTERLEITNER, G., LE HERON, D. P., MAPANI, B., VINING, B. A. & McCAFFREY, K. J. W. Styles, origins and implications of syndepositional deformation structures in Ediacaran microbial carbonates (Nama Basin, Namibia)	87
LE BER, E., LE HERON, D. P. & OXTOBY, N. H. Influence of microbial framework on Cryogenian microbial facies, Rasthof Formation, Namibia	111
METTRAUX, M., HOMEWOOD, P., DOS ANJOS, C., ERTHAL, M., LIMA, R., MATSUDA, N., SOUZA, A. & AL BALUSHI, S. Microbial communities and their primary to early diagenetic mineral phases; the record from Neoproterozoic microbialites of Qarn Alam, Oman	123
Mesozoic	
AURELL, M. & BÁDENAS, B. Facies architecture of a microbial–siliceous sponge-dominated carbonate platform: the Bajocian of Moscardón (Middle Jurassic, Spain)	155
BUCKLEY, J. P., BOSENCE, D. & ELDERS, C. Tectonic setting and stratigraphic architecture of an Early Cretaceous lacustrine carbonate platform, Sugar Loaf High, Santos Basin, Brazil	175
REZENDE, M. F. & POPE, M. C. Importance of depositional texture in pore characterization of subsalt microbialite carbonates, offshore Brazil	193
PAUL WRIGHT, V. & BARNETT, A. J. An abiotic model for the development of textures in some South Atlantic early Cretaceous lacustrine carbonates	209
MUNIZ, M. C. & BOSENCE, D. W. J. Pre-salt microbialites from the Campos Basin (offshore Brazil): image log facies, facies model and cyclicity in lacustrine carbonates	221
Cenozoic	
BAHNIUK, A., MCKENZIE, J. A., PERRI, E., BONTOGNALI, T. R. R., VÖGELI, N., REZENDE, C. E., RANGEL, T. P. & VASCONCELOS, C. Characterization of environmental conditions during microbial Mg-carbonate precipitation and early diagenetic dolomite crust formation: Brejo do Espinho, Rio de Janeiro, Brazil	243

CHIDSEY, T. C. Jr., VANDEN BERG, M. D. & EBY, D. E. Petrography and characterization of microbial carbonates and associated facies from modern Great Salt Lake and Uinta Basin's Eocene Green River Formation in Utah, USA	261
WARTHMANN, R. J., CAMOIN, G., MCKENZIE, J. A. & VASCONCELOS, C. Geomicrobiology of carbonate microbialites in the Tahiti reef	287
Index	301