

Contents

Preface	vii
Acknowledgements	viii
CORBETT, P. W. M., OWEN, A., HARTLEY, A. J., PLA-PUEYO, S., BARRETO, D., HACKNEY, C. & KAPE, S. J. The geoengineering approach to the study of rivers and reservoirs	1
BLUM, M. Organization and reorganization of drainage and sediment routing through time: the Mississippi River system	15
NICHOLSON, U., CARTER, A., ROBINSON, P. & MACDONALD, D. I. M. Eocene–Recent drainage evolution of the Colorado River and its precursor: an integrated provenance perspective from SW California	47
YESTE, L. M., HENARES, S., MCDUGALL, N., GARCÍA-GARCÍA, F. & VISERAS, C. Towards the multi-scale characterization of braided fluvial geobodies from outcrop, core, ground-penetrating radar and well log data	73
DAL' BÓ, P. F., SOARES, M. V. T., BASILICI, G., RODRIGUES, A. G. & MENEZES, M. N. Spatial variations in distributive fluvial system architecture of the Upper Cretaceous Marília Formation, SE Brazil	97
FAMBRINI, G. L., DA CUNHA SILVESTRE, D., DE MENEZES-FILHO, J. A. B., DA COSTA, I. C. & DE MIRANDA LOPES NEUMANN, V. H. Architectural and facies characterization of the Aptian fluvial Barbalha Formation, Araripe Basin, NE Brazil	119
BEST, J. & FIELDING, C. R. Describing fluvial systems: linking processes to deposits and stratigraphy	151
DE OLIVEIRA, E. C., PLA-PUEYO, S. & HACKNEY, C. R. Natural and anthropogenic influences on the Nhocolândia wetlands, SE Pantanal, Brazil	167
ELLEN, R., BROWNE, M. A. E., MITTEN, A. J., CLARKE, S. M., LESLIE, A. G. & CALLAGHAN, E. Sedimentology, architecture and depositional setting of the fluvial Spireslack Sandstone of the Midland Valley, Scotland: insights from the Spireslack surface coal mine	181
PATIDAR, S., ALLEN, D., HAYNES, R. & HAYNES, H. Stochastic modelling of flow sequences for improved prediction of fluvial flood hazards	205
DEMYANOV, V., REESINK, A. J. H. & ARNOLD, D. P. Can machine learning reveal sedimentological patterns in river deposits?	221
CORBETT, P. W. M. & DUARTE, G. L. B. Understanding subsurface fluvial architecture from a combination of geological well test models and well test data	237
KUWAJIMA, J. I., FAN, F. M., SCHWANENBERG, D., REIS, A. A. D., NIEMANN, A. & MAUAD, F. F. Climate change, water-related disasters, flood control and rainfall forecasting: a case study of the São Francisco River, Brazil	259
ADELOYE, A. J. & SOUNDHARAJAN, B.-S. Effect of dynamically varying zone-based hedging policies on the operational performance of surface water reservoirs during climate change	277
Index	291