CONTENTS – Volume 20, No 1

Thematic set: Fundamental controls on flow in carbonates
Guest editors: S M Agar & G J Hampson

Fundamental controls on flow in carbonates: an introduction
S M Agar & G J Hampson 3

Interaction of stratigraphic and sedimentological heterogeneities with flow in carbonate ramp reservoirs: impact of fluid properties and production strategy
P J R Fitch, M D Jackson, G J Hampson & C M John 7

Simulating flow through forward sediment model stratigraphies: insights into climatic control of reservoir quality in isolated carbonate platforms
F F Whitaker, G P Felce, GS Benson, F Amour, M Mutti & P L Smart 27

Insights to controls on dolomitization by means of reactive transport models applied to the Benicassim case study (Maestrat Basin, eastern Spain)
M Corbella, E Gomez-Rivas, J D Martin-Martín, S L Stafford, A Teixell, A Griera, A Travé, E Cardellach & R Salas 41

Workflows for incorporating stratigraphic and diagenetic relationships into a reservoir-analogue model from outcrops of Miocene carbonates in SE Spain
G S Benson, E K Franseen, R H Goldstein & Z Li 55

Fracture-network analysis of the Latemar Platform (northern Italy): integrating outcrop studies to constrain the hydraulic properties of fractures in reservoir models
H Boro, E Rosero & G Bertotti 79

Fracture analysis in the Amellago outcrop and permeability predictions
I Malinouskaya, J-F Thovert, V V Mourzenko, P M Adler, R Shekhar, S Agar, E Rosero & M Tsenn 93

Modelling and simulation of a Jurassic carbonate ramp outcrop, Amellago, High Atlas Mountains, Morocco
R Shekhar, I Sahni, G Benson, S Agar, F Amour, S Tomás, N Christ, R Alway, M Mutti, A Immemhauser, Z Karcz & L Kabiri 109

Numerical simulation of fluid-flow processes in a 3D high-resolution carbonate reservoir analogue
S Agada, F Chen, S Geiger, G Toigulova, S Agar, R Shekhar, G Benson, O Hehmeyer, F Amour, M Mutti, N Christ & A Immemhauser 125

In situ estimation of relative permeability from resistivity measurements
K Li, M Shapiro, R N Horne, S Ma, A Hajari & M Mudhhi 143