

Papers*Published*

Bond C., Gibbs A., Groshong R., Ratcliff R., and Wiltschko D. (Editors). 2012. Special Issue of the Journal of Structural Geology: Chamberlin Centennial: *A critical assessment of balance and restoration techniques and interpretation*, 41.

D. Healy, R. W. H. Butler, Z. K. Shipton and R. H. Sibson. *Faulting, Fracturing and Igneous Intrusion in the Earth's Crust*. Geological Society, London, Special Publications, 367.

Dykstra, M., **Kneller, B.**, Milana, J.-P. 2012. *Bed-thickness and grain-size trends in a small-scale proglacial channel-levée system; the Carboniferous Jejeles Formation, Western Argentina: Implications for turbidity current flow processes*. *Sedimentology* 59, pp 605-622.

E.D. McGregor, S.B. Nielsen, **R.A. Stephenson**, O.R. Clausen, K.D. Petersen & **D.I.M. Macdonald**, 2012. *Evolution of the west-Greenland margin: onshore thermo-stratigraphic data and modelling*. *Journal of the Geological Society*, 169, pp 515-530; doi: 10.1144/0016-76492011-139.

In Press/Accepted

Callow, R.H.T., McIlroy, D., **Kneller, B.**, Dykstra, M (in press). *Integrated ichnological and sedimentological analysis of a Late Cretaceous submarine channel-levee system: The Rosario Formation, Baja California, Mexico*. *Marine and Petroleum Geology*.

Nakajima, T. and **Kneller, B.** *Quantitative analysis of the geometry of submarine levees*. *Sedimentology*.

Gamberi, F.a , Rovere, M., Dykstra, M., Kane, I.A., **Kneller, B.C.** (in press). *Integrating modern seafloor and outcrop data in the analysis of slope channel architecture and fill*. *Marine and Petroleum Geology*.

He, Y., Xie, X., **Kneller, B.C.**, Wang, Z., Li, X. (in press). *Architecture and controlling factors of canyon fills on the shelf margin in the Qiongdongnan Basin, northern South China Sea*. *Marine and Petroleum Geology*.

Martin Brasier, Richard Matthewman, **Sean McMahon**, Matt Kilburn and David Wacey. *Pumice from the ~3,460 Ma Apex Basalt, Western Australia: a natural laboratory for the early biosphere*. *Precambrian Research*.

J. Garland, **J. Neilson**, S. E. Laubach & K. J. Whidden. *Advances in carbonate exploration and reservoir analysis*. Geological Society, London, Special Publications, 370.

Osinski, G.R., Tornabene, L.L., Banerjee, N.R., Cockell, C.S., Flemming, R., Izawa, M.R.M., McCutcheon, J., **Parnell, J.**, Preston, L.J., Pickersgill, A.E., Pontefract, A., Sapers, H.M. & Southam, G. *Impact-generated hydrothermal systems on Earth and Mars*. *Icarus*.

Funding

£5000 grant from Apache North Sea Ltd to Brice Rea, Matteo Spagnolo and **Stuart Archer**.

£66k from Total to support Triassic Mudstones Research (PI **Stuart Archer**).

Funding (continued)

Three new PhD students have recently started – **Larissa Hansen**, **Ramon Lopez** and **Pan Li** – all associated with a new JIP: Predicting Reservoir Architecture in Channelised Slope Settings (PRACSS). Sponsors are BG, BP, DONG, RWE Dea, Statoil, Tullow, with total sponsorship of £670k.

Presentations

Stuart Archer was the HALSTEAD lecturer at the British Science Festival which included a subsurface tour of the North Sea in the Halliburton Visualization Suite.

Bond C.E., Wightman R., and Ringrose P. *Predicting sub-surface fracture networks from modelled stresses and strain – how well can it replicate natural fractures?* Workshop on geomechanics and CO₂, Liverpool, September 2012.

Sean McMahon gave a talk at the British Science Festival, entitled "Is the Earth's Biosphere Exceptionally Shallow?" on September 7th.

John Parnell organised a session called 'Life down below' in the British Science Festival on 7th Sept, and gave two associated press conferences.

Esteem

Clare Bond was an invited attendee at the EPSRC CO₂ Grand Challenge Workshop, August 2012.

Ben Kneller gave a keynote talk at a symposium on Depositional Architectures of Deepwater Systems and Reservoirs in Xining, Qinghai province, China (August 8th).

Sean McMahon has been granted fellowship of the Royal Astronomical Society.

Outreach, Training & Media Coverage

Stuart Archer was the evening dinner speaker at Shell's annual Geo-Jam in Elgin, and the keynote speaker at Talisman's subsurface conference held at Ardoe House.

Stuart Archer led a two day field trip for Dana Petroleum to the Moray Firth, and co-led a field trip to Skye for ExxonMobil.

Stuart Archer is convening the upcoming conference on Geological Operations – 5th October, Kings College Conference Centre.

Andrew Hurst, **Stuart Archer**, **Rob Bingham**, **David Macdonald** and **John Parnell** hosted the visit of David Willetts MP (Universities Minister) focusing on hydrocarbon and Antarctic exploration, 7 September.

Sean McMahon is now a registered STEM Ambassador.

Outreach, Training & Media Coverage (continued)

John Parnell is visiting the European Space Agency, Netherlands, in September to discuss Mars soils.

Other

Andrew Hurst conducted fieldwork in the Garvellachs (7-10 July), examining the origin of sandstone intrusions in Dalradian tillites (with AM Spencer).

John Parnell examined vesicular basalts in the Roman walls of Exeter, but unfortunately left his hammer at home.

John Parnell met with the STFC ExoMars Oversight committee in Bristol, August 2012.

Randell Stephenson conducted fieldwork on Ellesmere Island (11-16 August), retrieving SEIS-UK seismic instrumentation, dismantling temporary observatories. Travel and field expenses provided by the Geological Survey of Canada and De Beers Canada.

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