

## JOURNAL OF THE GEOLOGICAL SOCIETY

Volume 164, Part 5, September 2007

**Bicentennial Reviews**

- CARTWRIGHT, J. A. The impact of 3D Seismic data on the understanding of compaction, fluid flow and diagenesis in sedimentary basins 881
- FAIRCHILD, I. J. & KENNEDY, M. J. Neoproterozoic glaciation in the Earth System 895
- KELLEY, S. P. The geochronology of large igneous provinces, terrestrial impact craters, and their relationship to mass extinctions on Earth 923

**Specials**

- CLARK, C., HAND, M., KELSEY, D. E. & GOSCOMBE, B. Linking crustal reworking to terrane accretion 937
- MCLAREN, S., DUNLAP, W. J. & POWELL, R. Understanding K-feldspar  $^{40}\text{Ar}/^{39}\text{Ar}$  data: reconciling models, methods and microtextures 941

**Research Articles**

- FALCON-LANG, H. J. & MILLER, R. F. Palaeoenvironments and palaeoecology of the Early Pennsylvanian Lancaster Formation ('Fern Ledges') of Saint John, New Brunswick, Canada 945
- KUZMICHEV, A. B. & PEASE, V. L. Siberian trap magmatism on the New Siberian Islands: constraints for Arctic Mesozoic plate tectonic reconstructions 959
- ELMING, S.-Å., KRAVCHENKO, S. N., LAYER, P., RUSAKOV, O. M., GLEVASSKAYA, A. M., MIKHAILOVA, N. P. & BACHTADSE, V. Palaeomagnetism and  $^{40}\text{Ar}/^{39}\text{Ar}$  age determinations of the Ediacaran traps from the southwestern margin of the East European Craton, Ukraine: relevance to the Rodinia break-up 969
- LUCCHI, F., TRANNE, C. A., CALANCHI, N., ROSSI, P. L. & KELLER, J. The stratigraphic role of marine deposits in the geological evolution of the Panarea volcano (Aeolian Islands, Italy) 983
- RIEU, R., ALLEN, P. A., COZZI, A., KOSLER, J. & BUSSY, F. A composite stratigraphy for the Neoproterozoic Huqf Supergroup of Oman: integrating new litho-, chemo- and chronostratigraphic data of the Mirbat area, southern Oman 997
- CALDERÓN, M. N., FILDANI, A., HERVÉ, F., FANNING, M., WEISLOGEL, A. & CORDANI, U. Late Jurassic bimodal magmatism in the northern sea-floor remnant of the Rocas Verdes basin, southern Patagonian Andes 1011
- WOODCOCK, N. H., SOPER, N. J. & STRACHAN, R. A. A Rhenish cause for the Acadian deformation in Europe 1023
- WATTS, L. M., HOLDSWORTH, R. E., SLEIGHT, J. A., STRACHAN, R. A. & SMITH, S. A. F. The movement history and fault rock evolution of a reactivated crustal-scale strike-slip fault: the Walls Boundary Fault Zone, Shetland. 1037
- MCCABE, A. M., COOPER, J. A. G. & KELLEY, J. T. Relative sea-level changes from NE Ireland during the last glacial termination 1059

**Discussion**

- ANDREWS, J. E., LEEDER, M. R., PORTMAN, C., ROWE, P. J. & SMITH, J. Discussion on Pleistocene calcified cyanobacterial mounds, Perachora peninsula, central Greece: a controversy of growth and history; *reply by* KERSHAW, S. & GUO, L. 1065



0016-7649(200709)164:5;1-B

Geological Society Internet site: [www.geol Soc.org.uk](http://www.geol Soc.org.uk)JGS online submission: <http://jgs.allentrack.net>Abstracted and/or indexed in *Current Contents*, *Science Citation Index*, *GeoArchive*, *GeoRef*, *Geobase*, *Petroleum Abstracts*, *Geological Abstracts* and *Mineralogical Abstracts*.

Published by the Geological Society of London

Cover image: bioturbation fabric in shallow marine sandstones, Cretaceous Greensand, Denmark. Photo: Gary Hampson.