



The  
Geological  
Society

*-serving science & profession*

# 2011/12

## New and recent book titles, Geological Society journals and the Lyell Collection

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## What is the Lyell Collection?

Launched in 2007 the Lyell Collection is an online collection comprising the Society's journal titles, Special Publications and key book series. Cutting edge science sits alongside important historical material, all captured and presented to the highest electronic standards and benefiting from the extensive functionality of HighWire Press' H2O platform.

With 240 000 peer-reviewed pages, 25 000 articles and 1000 volumes, the Lyell Collection is an invaluable tool for the researcher and student alike.

- Full text in HTML and PDF format
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## The Geological Society

The Geological Society of London was founded in 1807 and is the UK national society for geosciences, with over 10 000 members. It is a global leader in Earth science publishing, dedicated to providing a high-quality service throughout the world.

## New developments for 2012



The Society is collaborating with Elsevier to launch a Lyell Collection module on Geofacets. Selected titles will be available on Geofacet's searchable database of georeferenced geological maps that enables geoscientists working in the early stages of upstream exploration to assess a region's or basin's geological characteristics.

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### Special Publication archives

Online archives of the first 300 volumes of the Geological Society's Special Publications are now available for sale on a one-off, perpetual access basis. Prices include a 10% discount for those purchasing the full archive (volumes 1–300)

### New titles

Two new archival titles will be launched and made available to Lyell Collection Complete subscribers at no additional charge.

- Transactions of the Edinburgh society
- Transactions of the Glasgow society

## Lyell Collection for libraries 2012: content and prices

TITLE	2012 Content	Access options	UK price £*	RoW price £*	RoW price US\$*
<b>Lyell Collection Complete</b>	All content	Online Online + Print Online + Special Publications Print**	£3,661 £4,119 £3,911	£3,889 £4,375 £4,139	\$7,778 \$8,750 \$8,278
<b>Special Publications</b>	360+ volumes	Online Online + Print	£2,158 £2,427	£2,250 £2,531	\$4,499 \$5,061
<b>Engineering Geology Special Publications</b>	25+ volumes	<i>Available as part of Lyell Collection Complete only</i>			
<b>Memoirs</b>	36+ volumes	<i>Available as part of Lyell Collection Complete only</i>			
<b>Petroleum Geology Conference Series</b>	4 volumes	<i>Available as part of Lyell Collection Complete only</i>			
<b>Journal of the Geological Society</b>	1845 to current	Online Online + Print	£842 £948	£935 £1,052	\$1,871 \$2,105
<b>Quarterly Journal of Engineering Geology and Hydrogeology</b>	1967 to current	Online Online + Print	£399 £449	£447 £502	\$893 \$1,005
<b>Geochemistry: Exploration, Environment, Analysis</b>	2001 to current	Online Online + Print	£215 £242	£243 £274	\$487 \$548
<b>Petroleum Geoscience</b>	1995 to current	Online Online + Print	£361 £406	£361 £406	\$722 \$813
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  - December 2011
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  - Other qualifying societies:  
**tbc** (Cat no tbc)
- Online bookshop code: **SP360**

### • Special Publication 360

## Deformation Mechanisms, Rheology and Tectonics: Microstructures, Mechanics and Anisotropy

*Edited by D. J. Prior, E. H. Rutter and D. J. Tatham*

This collection of papers presents recent advances in the study of deformation mechanisms and rheology and their applications to tectonics. Many of the contributions exploit new petrofabric techniques, particularly electron backscatter diffraction, to help understand the evolution of rock microstructure and mechanical properties. Papers in the first section (lattice preferred orientations and anisotropy) show a growing emphasis on the determination of elastic properties from petrofabrics, from which acoustic properties can be computed for comparison with in-situ seismic measurements. Such research will underpin geodynamic interpretation of large-scale active tectonics. Contributions in the second section (microstructures, mechanisms and rheology) study the relations between microstructural evolution during deformation and mechanical properties. Many of the papers explore how different mechanisms compete and interact to control the evolution of grain size and petrofabrics. Contributors make use of combinations of laboratory experiments, field studies and computational methods, and several relate microstructural and mechanical evolution to large-scale tectonic processes observed in nature.

NEW



- ISBN: 978-1-86239-337-0
  - December 2011
  - pages tbc • Hardback
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List: **tbc** GSL: **tbc**
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**tbc** (Cat no tbc)
- Online bookshop code: **SP359**

### • Special Publication 359

## Geology of the Earthquake Source: A Volume in Honour of Rick Sibson

*Edited by Å. Fagereng, V. G. Toy and J. V. Rowland*

Professor Richard (Rick) Sibson revolutionized structural geology by illustrating that fault rocks contain an integrated record of earthquakes. Fault-rock textures develop in response to geological and physical variables such as composition, environmental conditions (e.g. temperature and pressure), fluid presence and strain rate. These parameters also determine the rate- and state-variable frictional stability of a fault, the dominant mineral deformation mechanism and shear strength, and ultimately control the partitioning between seismic and aseismic deformation. This volume contains a collection of papers that address the geological record of earthquake faulting from field-based or theoretical perspectives. The papers cover observations in active fault zones, the relationships between fault rocks and fault-slip styles, interpretation of fault-rock textures from the base of the seismogenic zone, consideration of the effects of fluids on faulting, discussion of fault reactivation v. initiation, and a review of future directions in geological earthquake research by Professor Sibson.

NEW



- ISBN: 978-1-86239-336-3
  - November 2011
  - pages tbc • Hardback
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**tbc** (Cat no tbc)
- Online bookshop code: **SP358**

### • Special Publication 358

## Comparing the Geological and Fossil Records: Implications for Biodiversity Studies

*Edited by A. McGowan and A. B. Smith*

The past decade has witnessed a major revival in attempts to separate biodiversity signals from biases imposed by sampling and the architecture of the rock record. How large a problem this poses to our understanding of biodiversity patterns remains debatable, and new approaches are being developed to investigate this question. Here palaeobiologists with widely differing approaches and interests explore the problems of extracting reliable information on biodiversity change from an imperfect geological record. Topics covered range from the application of information-theoretic approaches that identify directional causal relationships to an in-depth study of how geological biases could influence our understanding of dinosaur evolution. A wide range of new insights into the links between the land, shallow-marine and deep-sea rock, and fossil records are presented, making this volume invaluable to anyone in the Earth or life sciences who wishes to remain abreast of this dynamic and rapidly evolving research area.

NEW



- ISBN: 978-1-86239-335-6
  - October 2011
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- Online bookshop code: **SP357**

### • Special Publication 357

## The Formation and Evolution of Africa: A Synopsis of 3.8 Ga of Earth History

*Edited by D. J. J. van Hinsbergen, S. J. H. Buiter, T. H. Torsvik, C. Gaina and S. J. Webb*

The African continent preserves a long geological record that covers almost 75% of Earth's history. The Pan-African orogeny (c. 600–500 Ma) brought together old continental kernels (West Africa, Congo, Kalahari and Tanzania) to form Gondwana and subsequently the supercontinent Pangaea by the late Palaeozoic. The break-up of Pangaea since the Jurassic and Cretaceous, primarily through opening of the Central Atlantic, Indian, and South Atlantic oceans, in combination with the complicated subduction history to the north, gradually shaped the African continent.

This volume contains 18 contributions that discuss the geology of Africa from the Archaean to the present day. It celebrates African geology in two ways: first, it highlights multidisciplinary Earth science research by viewing the formation and evolution of Africa from 18 different angles; second, it celebrates the work of Kevin Burke and Lewis Ashwal and portrays the wide range of interests and research angles that have characterized these two scientists throughout their careers, working in Africa, and studying African geology.

NEW



- ISBN: 978-1-86239-330-1
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- Other qualifying societies:
- £60.00/US\$120.00** (Cat no tbc)
- Online bookshop code: **SP356**

### • Special Publication 356

## Martian Geomorphology

*Edited by M. R. Balme, G. Sanjeev, C. Gallagher and A. Bargery*

The latest Mars missions are returning data of unprecedented fidelity in their representation of the martian surface. New data include images with spatial resolution better than 30 cm per pixel, stereo imaging-derived terrain models with one meter postings, high-resolution imaging spectroscopy, and RADAR data that reveal subsurface structure. This book reveals how this information is being used to understand the evolution of martian landscapes, and includes topics such as fluvial flooding, permafrost and periglacial landforms, debris flows, deposition and erosion of sedimentary material, and the origin of lineaments on Phobos, the larger martian moon. Contemporary remote sensing data of Mars, on a par with those of Earth, reveal landscapes strikingly similar to regions of our own planet, so this book will be of interest to Earth scientists and planetary scientists alike. An overview chapter summarising Mars' climate, geology and exploration is included for the benefit of those new to Mars.

NEW



- ISBN: 978-1-86239-329-5
- July 2011
- 392 pages • Hardback
- Prices:
- List: **£100.00/US\$200.00**
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- £60.00/US\$120.00** (Cat no tbc)
- Online bookshop code: **SP355**

### • Special Publication 355

## The SE Asian Gateway: History and Tectonics of the Australia-Asia collision

*Edited by R. Hall, M. A. Cottam and M. E. J. Wilson*

Collision between Australia and SE Asia began in the Early Miocene and reduced the former wide ocean between them to a complex passage which connects the Pacific and Indian Oceans. Today, the Indonesian Throughflow passes through this gateway and plays an important role in global thermohaline flow, and the region around it contains the maximum global diversity for many marine and terrestrial organisms. Reconstruction of this geologically complex region is essential for understanding its role in oceanic and atmospheric circulation, climate impacts, and the origin of its biodiversity.

The papers in this volume discuss the Palaeozoic to Cenozoic geological background to Australia and SE Asia collision, and provide the background for accounts of the modern Indonesian Throughflow, oceanographic changes since the Neogene, and aspects of the region's climate history.

NEW



- ISBN: 978-1-86239-327-1
- June 2011
- 296 pages • Hardback
- Prices:
- List: **£100.00/US\$200.00**
- GSL: **£50.00/US\$100.00**
- Other qualifying societies:
- £60.00/US\$120.00** (Cat no tbc)
- Online bookshop code: **SP354**

### • Special Publication 354

## Ice-Marginal and Periglacial Processes and Sediments

*Edited by I. P. Martini, H. M. French and A. Pérez-Alberti*

Understanding the sediments deposited by glaciers or other cold-climate processes assumes enhanced significance in the context of current global warming and the predicted melt and retreat of glaciers and ice sheets.

This volume analyses glacial, proglacial and periglacial settings. Papers include topics such as sedimentation at termini of tidewater glaciers, poorly understood high-mountain features, and slope and aeolian deposits that have been sourced in glacial and periglacial regions and subsequently transported and deposited by azonal processes. Difficulties encountered in inferring Pleistocene and pre-Pleistocene cold-climate conditions when the sedimentary record lacks specific diagnostic indicators are discussed. The main objective of this volume is to establish the validity and limitations of the evidence that is used to achieve reliable palaeogeographic and palaeoclimatic reconstructions. On the much longer geological timescale, an understanding of ice-marginal and periglacial environments may better prepare us for the unavoidable reversal towards cooler and perhaps even glacial times in the future.

NEW



- ISBN: 978-1-86239-326-4
- March 2011
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- List: **£90.00/US\$180.00**
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- £54.00/US\$108.00** (Cat no tbc)
- Online bookshop code: **SP353**

### • Special Publication 353

## Growth and Collapse of the Tibetan Plateau

*Edited by R. Gloaguen and L. Ratschbacher*

Despite agreement on first-order features and mechanisms, critical aspects of the origin and evolution of the Tibetan Plateau, such as the exact timing and nature of collision, the initiation of plateau uplift, and the evolution of its height and width, are disputed, untested or unknown. This book gathers papers dealing with the growth and collapse of the Tibetan Plateau. The timing, the underlying mechanisms, their interactions and the induced surface shaping, contributing to the Tibetan Plateau evolution are tightly linked via coupled and feedback processes. We therefore present cross-disciplinary contributions which allow insight into the complex interactions between lithospheric dynamics, topography building, erosion, hydrological processes and atmospheric coupling. The book is structured in four parts: early processes in the plateau formation; recent growth of the Tibetan Plateau; mechanisms of plateau growth; and plateau uplift, surface processes and the monsoon.

NEW



- ISBN: 978-1-86239-325-7
- February 2011
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- Other qualifying societies:
- £54.00/US\$108.00** (Cat no 1130)
- Online bookshop code: **SP352**

### • Special Publication 352

## Human Interactions with the Geosphere: The Geoarchaeological Perspective

*Edited by L. Wilson*

Human impact on our environment is not a new phenomenon. For millennia, humans have been coping with – or provoking – environmental change. We have exploited, extracted, over-used, but also in many cases nurtured, the resources that the geosphere offers. Geoarchaeology studies the traces of human interactions with the geosphere and provides the key to recognizing landscape and environmental change, human impacts and the effects of environmental change on human societies.

This collection of papers from around the world includes case studies and broader reviews covering the time period since before modern human beings came into existence up until the present day. To understand ourselves, we need to understand that our world is constantly changing, and that change is dynamic and complex. Geoarchaeology provides an inclusive and long-term view of human–geosphere interactions and serves as a valuable aid to those who try to determine sustainable policies for the future.

NEW



- ISBN: 978-1-86239-324-0
- May 2011
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- Prices:
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- GSL: **£50.00/US\$100.00**
- Other qualifying societies:
- £60.00/US\$120.00** (Cat no tbc)
- Online bookshop code: **SP351**

### • Special Publication 351

## Slope Tectonics

*Edited by M. Jaboyedoff*

Usually geomorphology, structural geology and engineering geology provide descriptions of slope instability in quite distinctive ways. This new research is based on combined approaches to providing an integrated view of the operative slope processes. 'Slope Tectonics' is the term adopted here to refer to those deformations that are induced or fully controlled by the slope morphology, and that generate features which can be compared to those created by tectonic activity. Such deformation can be induced by the stress field in a slope which is mainly controlled by gravity, topography and the geological setting created by the geodynamic context.

The content of this book includes slope-deformation characterization using morphology and evolution, mechanical behaviour of the material, modes of failure and collapse, influence of lithology and structural features, and the role played by controlling factors. The contributions cover broad aspects of slope tectonics that attempt to underline a multidisciplinary approach, which should create a better framework for studies of slope instability.

NEW



- ISBN: 978-1-86239-321-9
- January 2011
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- GSL: **£45.00/US\$90.00**
- Other societies:
- £54.00/US\$108.00** (Cat no 1150)
- Online bookshop code: **SP350**

### • Special Publication 350

## Granite-Related Ore Deposits

*Edited by A. N. Sial, J. S. Bettencourt, C. P. De Campos and V. P. Ferreira*

This volume brings together a collection of papers that summarize current ideas and recent progress in the study of granite-related mineralization systems. They provide a combination of field, experimental and theoretical studies. Papers are grouped according to the main granite-related ore systems: granite-pegmatite, skarn and greisen-veins, porphyry, orogenic gold, intrusion-related, epithermal and porphyry-related gold and base metal, iron oxide–copper–gold (IOCG), and special case studies. The studies provide a broad spread in terms of both space and time, highlighting granite-related ore deposits from Europe (Russia, Sweden, Croatia and Turkey), the Middle East (Iran), Asia (Japan and China) and South America (Brazil and Argentina) and spanning rocks from Palaeoproterozoic to Miocene in age.

NEW



- ISBN: 978-1-86239-320-2
- March 2011
- 264 pages • Hardback
- Prices:
- List: **£90.00/\$180.00**
- GSL: **£45.00/\$90.00**
- Other qualifying societies:
- £54.00/\$108.00** (Cat no 1129)
- Online bookshop code: **SP349**

### • Special Publication 349

## Kinematic Evolution and Structural Styles of Fold-and-Thrust Belts

*Edited by J. Poblet and R. J. Lisle*

Fold-and-thrust belts occur worldwide, have formed in all eras of geological time, and are widely recognized as the most common mode in which the crust accommodates shortening. Much current research on the structure of fold-and-thrust belts is focused on structural studies of regions or individual structures and on the geometry and evolution of these regions employing kinematic, mechanical and experimental modelling. In keeping with the main trends of current research, this title is devoted to the kinematic evolution and structural styles of a number of fold-and-thrust belts formed from Palaeozoic to Recent times. The papers included in this book cover a broad range of different topics, from modelling approaches to predict internal deformation of single structures, 3D reconstructions to decipher the structural evolution of groups of structures, palaeomagnetic studies of portions of fold-and-thrust belts, geometrical and kinematic aspects of Coulomb thrust wedges and structural analyses of fold-and-thrust belts to unravel their sequence of deformations.

NEW



- ISBN: 978-1-86239-317-2
- January 2011
- 200 pages • Hardback
- Prices:
- List: **£75.00/US\$150.00**
- GSL: **£37.50/US\$75.00**
- Other qualifying societies:
- £45.00/US\$90.00** (Cat no 1128)
- Online bookshop code: **SP348**

### • Special Publication 348

## Hydrocarbons in Contractual Belts

*Edited by G. P. Goffey, J. Craig, T. Needham and R. Scott*

Onshore fold–thrust belts are commonly perceived as 'difficult' places to explore for hydrocarbons and are therefore often avoided. However, these belts host large oil and gas fields and so these barriers to effective exploration mean that substantial unexploited resources may remain. Over time, evaluation techniques have improved. It is possible in certain circumstances to achieve good 3D seismic data. Structural restoration techniques have moved into the 3D domain and increasingly sophisticated palaeo-thermal indicators allow better modelling of burial and uplift evolution of source and reservoirs. Awareness of the influence of pre-thrust structure and stratigraphy and of hybrid thick and thin-skinned deformation styles is augmenting the simplistic geometric models employed in earlier exploration. But progress is a slow, expensive and iterative process. Industry and academia need to collaborate in order to develop and continually improve the necessary understanding of subsurface geometries, reservoir and charge evolution and timing; this publication offers papers on specific techniques, outcrop and field case studies.



- ISBN: 978-1-86239-316-5
- December 2010
- 368 pages • Hardback
- Prices:
- List: **£95.00/US\$190.00**
- GSL: **£47.50/US\$95.00**
- Other qualifying societies:
- £57.00/US\$114.00** (Cat no 1127)
- Online bookshop code: **SP347**

### • Special Publication 347

## Reservoir Compartmentalization

*Edited by S. J. Jolley, Q. J. Fisher, R. B. Ainsworth, P. J. Vrolijk and S. Delisle*

Reservoir compartmentalization, the segregation of a petroleum accumulation into a number of individual fluid/pressure compartments, controls the volume of moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts on reserves 'booking' and operational profitability. This is a general feature of modern exploration and production portfolios, and has driven major developments in geoscience, engineering and related technology. Given that compartmentalization is a consequence of many factors, an integrated subsurface approach is required to better understand and predict compartmentalization behaviour, and to minimize the risk of it occurring unexpectedly. This volume reviews our current understanding and ability to model compartmentalization. It highlights the necessity for effective specialist discipline integration, and the value of learning from operational experience in: detection and monitoring of compartmentalization; stratigraphic and mixed-mode compartmentalization; and fault-dominated compartmentalization.



- ISBN: 978-1-86239-314-1
- December 2010
- 336 pages • Hardback
- Prices:
- List: **£90.00/US\$180.00**
- GSL: **£45.00/US\$90.00**
- Other qualifying societies:
- £54.00/US\$108.00** (Cat no 1126)
- Online bookshop code: **SP346**

### • Special Publication 346

## Australian Landscapes

*Edited by P. Bishop and B. Pillans*

Australian Landscapes provides an up-to-date statement on the geomorphology of Australia. Karst, desert, bedrock rivers, coasts, submarine geomorphology, biogeomorphology and tectonics are all covered, aided by the latest geochronological techniques and remote sensing approaches. The antiquity and enduring geomorphological stability of the Australian continent are emphasized in several chapters, but the cutting-edge techniques used to establish that stability also reveal much complexity, including areas of considerable recent tectonic activity and a wide range of rates of landscape change.

Links to the biological sphere are explored, in relation both to the lengthy human presence on the continent and to a biota that resulted from Cenozoic aridification of the continent, dated using new techniques. New syntheses of glaciation in Tasmania, aridification in South Australia and aeolian activity all focus on Quaternary landscape evolution.

This major synthesis of Australian geomorphology is dedicated to Professor John Chappell (The Australian National University) and Professor Martin Williams (University of Adelaide).

NEW



- ISBN: 978-1-86239-313-4
- January 2011
- 160 pages • Hardback
- Prices:
- List: **£70.00/US\$140.00**
- GSL: **£35.00/US\$70.00**
- Other qualifying societies:
- £42.00/US\$84.00** (Cat no 1125)
- Online bookshop code: **SP345**

### • Special Publication 345

## Elevation Models for Geoscience

*Edited by: C. Fleming, S. H. Marsh and J. R. A. Giles*

Elevation data are a critical element in most geoscience applications. From geological mapping to modelling Earth systems and processes geologists need to understand the shape of the Earth's surface. Vast amounts of digital elevation data exist, from large-scale global to smaller scale regional datasets, and many datasets have been merged to improve scale and accuracy. For each application, decisions are made on which elevation data to use driven by cost, resolution and accuracy. This publication shows the current status of available digital elevation data and illustrates the key applications. The types of data assessed include: ASTER stereo satellite imagery, Shuttle Radar Topographic Mapping data, airborne laser and radar such as NEXTMap, and Multibeam Bathymetry. Applications covered include: glacial deposits, landslides, coastal erosion and other geological hazards. Technical issues discussed include: accuracy analysis, derived product creation, software comparisons and copyright considerations. This volume is a comprehensive look at elevation models for geoscience.

NEW



- ISBN: 978-1-86239-312-7
- January 2011
- 392 pages • Hardback

• Prices:

List: £95.00/US\$190.00

GSL: £47.50/US\$95.00

Other qualifying societies:

£57.00/US\$114.00 (Cat no 1152)

Online bookshop code: SP344



- ISBN: 978-1-86239-311-0
- October 2010
- 394 pages • Hardback

• Prices:

List: £95.00/US\$190.00

GSL: £47.50/US\$95.00

Other qualifying societies:

£57.00/US\$114.00 (Cat no 1113)

Online bookshop code: SP343



- ISBN: 978-1-86239-310-3
- October 2010
- 312 pages • Hardback

• Prices:

List: £90.00/US\$180.00

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Other qualifying societies:

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Online bookshop code: SP342



- ISBN: 978-1-86239-306-6
- September 2010
- 352 pages • Hardback

• Prices:

List: £95.00/US\$190.00

GSL: £47.50/US\$95.00

Other qualifying societies:

£57.00/US\$114.00 (Cat no 1111)

Online bookshop code: SP341

## • Special Publication 344

### Fjord Systems and Archives

*Edited by J. A. Howe, W. E. N. Austin, M. Forwick and M. Paetzel*

Fjords are glacially over-deepened, semi-enclosed marine basins, but are often neglected as a sedimentary realm. They represent the transition from the terrestrial to the marine environment and as such have the potential to preserve evidence of environmental change.

Typically most fjords have been glaciated a number of times and some high-latitude fjords still possess a resident glacier. The stratigraphic record in fjords largely preserves a glacial–deglacial cycle of deposition. Sheltered water and high sedimentation rates potentially make fjords ideal depositional environments for preserving continuous records of climate and environmental change with high temporal resolution. Fjords are also referred to as miniature oceans providing the unique opportunity to study marine processes in great detail. With predictions of warming climates, changing ocean circulation and rising sea levels, this volume is a timely look at these environmentally sensitive coastlines.

## • Special Publication 343

### Dinosaurs and Other Extinct Saurians: A Historical Perspective

*Edited by R. T. J. Moody, E. Buffetaut, D. Naish and D. M. Martill*

The discovery of dinosaurs and other large extinct 'saurians'—a term under which the Victorians commonly lumped ichthyosaurs, plesiosaurs, pterosaurs and their kin—makes exciting reading and has caught the attention of palaeontologists, historians of science and the general public alike. The papers in this collection go beyond the familiar tales about famous 'fossil hunters' and focus on relatively little-known episodes in the discovery and interpretation (from both a scientific and an artistic point of view) of dinosaurs and other inhabitants of the Mesozoic world. They cover a long time span, from the beginnings of 'modern' scientific palaeontology in the 1700s to the present, and deal with many parts of the world, from the Yorkshire coast to Central India, from Bavaria to the Sahara. The characters in these stories include professional palaeontologists and geologists (some of them well-known, others quite obscure), explorers, amateur fossil collectors, and artists, linked together by their interest in Mesozoic creatures.

## • Special Publication 342

### Monsoon Evolution and Tectonic–Climate Linkage in Asia

*Edited by P. D. Clift, R. Tada and H. Zheng*

The Earth's climate varies through geological time as a result of external, orbital processes, as well as the positions of continents, growth of mountains and the opening and closure of oceanic gateways. Climate modelling suggests that the intensity of the Asian monsoon should correlate, at least in part, with the uplift history of the Tibetan Plateau and the Himalaya, as well as the evolution of gateways and the retreat of shallow seas in Central Asia. Long-term reconstructions of both mountain building and monsoon activity are key to testing the proposed links. This collection of papers presents a series of new studies documenting the variations of the Asian monsoon on orbital and tectonic timescales, together with the impact this has had on environmental conditions. The issue of which proxies are best suited to measuring monsoons is addressed, as is the effect that the monsoon has had on erosion and the formation of the stratigraphic record both on and offshore.

## • Special Publication 341

### Evolution of the Levant Margin and Western Arabia Platform since the Mesozoic

*Edited by C. Homberg and M. Bachmann*

This volume combines original data in various fields from the offshore Levant Basin and adjacent continental slopes and platforms. The first group of papers document the tectonic structures and sedimentological patterns associated with the development of the Levant Basin. They identify the successive rifting events from the Late Palaeozoic to the Early Cretaceous, followed by a moderate tectonic activity. The contribution of external factors like global sea-level and climate changes to the sedimentation processes during the Mid-Cretaceous is discussed in the second set of papers. The final group presents new kinematics and age constraints on the Late Cretaceous to Neogene tectonic phases and discusses the relationship of the structures with the closure of the Neo-Tethys and separation of the Arabia plate. This collection of research papers demonstrates new concepts on the opening and crustal thinning of the Levant Basin and gives updated interpretations of the latter tectonic structures of the Levant.



• ISBN: 978-1-86239-308-0  
 • September 2010  
 • 512 pages • Hardback  
 • Prices:

List: **£100.00/US\$200.00**  
 GSL: **£50.00/US\$100.00**

Other qualifying societies:  
**£60.00/US\$120.00** (Cat no 1110)  
 Online bookshop code: **SP340**

### • Special Publication 340

## Sedimentary Basin Tectonics from the Black Sea and Caucasus to the Arabian Platform

*Edited by M. Sossou, N. Kaymakci, R. A. Stephenson, F. Bergerat and V. Starostenk*

This wide area of the Alpine–Himalayan belt evolved through a series of tectonic events related to the opening and closure of the Tethys Ocean. In doing so it produced the largest mountain belt of the world, which extends from the Atlantic to the Pacific oceans. The basins associated with this belt contain invaluable information related to mountain building processes and are the locus of rich hydrocarbon accumulations. However, knowledge about the geological evolution of the region is limited compared to what they offer. This has been mainly due to the difficulty and inaccessibility of cross-country studies. This Special Publication is dedicated to the part of the Alpine–Himalayan belt running from Bulgaria to Armenia, and from Ukraine to the Arabian Platform. It includes twenty multidisciplinary studies covering topics in structural geology/tectonics; geophysics; geochemistry; palaeontology; petrography; sedimentology; stratigraphy; and subsidence and lithospheric modelling. This volume reports results obtained during the MEBE (Middle East Basin Evolution) Programme and related projects in the circum Black Sea and peri-Arabian regions.



• ISBN: 978-1-86239-309-7  
 • October 2010  
 • 200 pages • Hardback  
 • Prices:

List: **£75.00/US\$150.00**  
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Other qualifying societies:  
**£45.00/US\$90.00** (Cat no 1109)  
 Online bookshop code: **SP339**

### • Special Publication 339

## The Terrestrialization Process: Modelling Complex Interactions at the Biosphere–Geosphere Interface

*Edited by M. Vecoli, G. Clement and B. Meyer-Berthaud*

The invasion of the land by plants ('terrestrialization') was one of the most significant evolutionary events in the history of life on Earth, and correlates in time with periods of major palaeoenvironmental perturbations. The development of a vegetation cover on the previously barren land surfaces impacted on the global biogeochemical cycles and the geological processes of erosion and sediment transport. The terrestrialization of plants preceded the rise of major new groups of animals, such as insects and tetrapods, the latter numbering some 24 000 living species, including ourselves. Early land-plant evolution also correlates with the most spectacular decline of atmospheric CO<sub>2</sub> concentration of Phanerozoic times and with the onset of a protracted period of glacial conditions on Earth. This book includes a selection of papers covering different aspects of the terrestrialization, from palaeobotany to vertebrate palaeontology and geochemistry, promoting a multidisciplinary approach to the understanding of the co-evolution of life and its environments during Early to Mid-Palaeozoic times.



• ISBN: 978-1-86239-303-5  
 • August 2010  
 • 424 pages • Hardback  
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 Online bookshop code: **SP338**

### • Special Publication 338

## The Evolving Continents: Understanding the Processes of Continental Growth

*Edited by T. M. Kusky, M.-G. Zhai and W. Xiao*

This volume honours the career of Brian F. Windley, who has been hugely influential in helping to achieve our current understanding of the evolution of the continental crust, and who has inspired many students and scientists to pursue studies on the evolution of the continents. Brian has studied processes of continental formation and evolution on most continents and of all ages, and has educated and inspired two generations of geologists to undertake careers in studies of continental evolution. The volume is organized into six sections, including: oceanic and island arc systems and continental growth; tectonics of accretionary orogens and continental growth; growth and stabilization of continental crust; collisions and intraplate processes; Precambrian tectonics and the birth of continents; and active tectonics and geomorphology of continental collision and growth zones.



• ISBN: 978-1-86239-304-2  
 • July 2010  
 • 256 pages • Hardback  
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List: **£85.00/US\$170.00**  
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Other qualifying societies:  
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 Online bookshop code: **SP337**

### • Special Publication 337

## Petrological Evolution of the European Lithospheric Mantle

*Edited by M. Coltorti, H. Downes, M. Gregoire and S. Y. O'Reilly*

Several different databases and models have been developed over many years of petrological study carried out by several European and non-European groups on mantle xenoliths, peridotite massifs, ophiolites and mafic magmas spanning in age from Archaean to Recent times. This volume aims to bring together these different approaches and to integrate the geochemical perceptions of the European upper mantle. The papers include regional petrological studies of the European lithospheric mantle, from Spain to the Pannonian Basin, from Corsica and Serbia as far north as Svalbard. Six contributions are based on studies of mantle xenoliths, while the remaining three deal with ophiolitic and peridotitic complexes. A further article provides an update on the textural classification of mantle rocks using a computer-aided approach and there is an introductory overview.



- ISBN: 978-1-86239-301-1
- July 2010
- 368 pages • Hardback
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- Online bookshop code: **SP336**

### • Special Publication 336

## Tufas and Speleothems: Unravelling the Microbial and Physical Controls

*Edited by H. M. Pedley and M. Rogerson*

Our understanding of calcium carbonate precipitation within freshwater carbonate systems is being revolutionized by new quantitative approaches at both field and laboratory scale. These systems cover a diverse range of topical research areas including tufas, speleothems, stromatolites and microbial processes. Progress by various international research groups has been impressive, with major contributions to such areas as climate change, absolute dating, carbon sequestration, and biofilm construction and precipitation. A diverse sample of interrelated research is presented that provides a tantalizing glimpse of the interplay between microbial, geochemical and physical processes that control the development of tufas and speleothems. This volume will provide a cross-disciplinary platform that will stimulate further exchanges about new concepts, methodologies and interpretations associated with freshwater carbonates. In particular, it will help reinforce the importance of cross-discipline research: the driving force behind the new field of Geobiology.



- ISBN: 978-1-86239-300-4
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- £96.00/US\$192.00** (Cat no 1103)
- Online bookshop code: **SP335**

### • Special Publication 335

## Continental Tectonics and Mountain Building: The Legacy of Peach and Horne

*Edited by R. D. Law, R. W. H. Butler, R. E. Holdsworth, M. Krabbendam and R. A. Strachan*

The world's mountain ranges are the clearest manifestations of long-term deformation of the continental crust. As such they have attracted geological investigations for centuries. Throughout this long history of research a few keynote publications stand out. One of the most important is the Geological Survey's 1907 Memoir on The Geological Structure of the North-West Highlands of Scotland. The Memoir summarized some of the Geological Survey's finest work, and outlined many of the principles of field-based structural and tectonic analysis that have subsequently guided generations of geologists working in other mountain belts, both ancient and modern. The thematic set of 32 papers in this Special Publication celebrate the 100th anniversary of the 1907 Memoir by placing the original findings in both historical and modern contexts, and juxtaposing them against present-day studies of deformation processes operating not only in the NW Highlands, but also in other mountain belts.



- ISBN: 978-1-86239-296-0
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- Online bookshop code: **SP334**

### • Special Publication 334

## The Triassic Timescale

*Edited by S. G. Lucas*

The Mesozoic Era begins with the approximately 50-million-year-long Triassic Period, a major juncture in Earth history when the vast Pangaeen supercontinent completed its assembly and began its fragmentation, and the global biota diversified and modernized after the end-Permian mass extinction, the most extensive biotic decimation of the Phanerozoic. The temporal ordering of geological and biotic events during Triassic time thus is critical to the interpretation of some unique and pivotal events in Earth history. This temporal ordering is mostly based on the Triassic timescale, which has been developed and refined for nearly two centuries. This book reviews the state of the art of the Triassic timescale and includes comprehensive analyses of Triassic radio-isotopic ages, magnetostratigraphy, isotope-based and cyclostratigraphic correlations and timescale -relevant marine and non-marine biostratigraphy.



- ISBN: 978-1-86239-291-5
- May 2010
- 256 pages • Hardback
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- List: **£80.00/US\$160.00**
- GSL: **£40.00/US\$80.00**
- Other qualifying societies:
- £48.00/US\$96.00** (Cat no 1091)
- Online bookshop code: **SP333**

### • Special Publication 333

## Natural Stone Resources for Historical Monuments

*Edited by R. Přikryl and Á. Török*

Natural stone is considered to be a versatile, durable and aesthetically pleasing building material. From the beginning of civilization, important structures and monuments have been built from, or based on, natural stone. Until the end of the nineteenth century, the use of local stone resources was mostly in balance with the local environment. Strict environmental legislation has resulted in the closing of many long-standing quarries in industrialized countries, which has led to a shortage of traditional stone varieties. This has caused problems for restoration practice. Cheap, imported stone from less industrialized countries has become more widely available in recent years.

Some of the issues related to built stone conservation and restoration covered by this volume are: the establishment of inventories of possible replacement stones; understanding the decay mechanism and use of preventive conservation methods for slowing down decay processes; evaluation of the properties of natural stone; and assessing the risks of using replacement stones of different qualities.



- ISBN: 978-1-86239-298-4
- December 2010
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PESGB, AAPG and GSA:
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## Petroleum Geology: From Mature Basins to New Frontiers - Proceedings of the 7th Petroleum Geology Conference

Edited by B. A. Vining and S. C. Pickering

**Volume 1/Volume 2:** The *Proceedings of the 7th Petroleum Geology Conference* is the seventh in a series that has become a tradition known as the 'Barbican' conferences. They started life over 35 years ago, in 1974, with a focus solely on North-West Europe, and have a reputation, both from the conferences and the accompanying proceedings volumes, of being at the forefront of petroleum geoscience; the standard reference for successive generations of petroleum geoscientists. North-West Europe has matured as a petroleum province and, at the same time, the conference series has matured to be a truly global event. These proceedings embrace many of the world's petroleum provinces in a two-volume set. There are sections on Europe, which still provides the heart of the proceedings; Russia, the former Soviet Union and Circum-Arctic; North Africa and the Middle East; Passive Margins; and Unconventional Hydrocarbon Resources. In addition, the three Geocontroversies debates, highly acclaimed at the conference, are included, as is a summary of the Core Workshop. A DVD complements the books and, in addition to providing electronic versions of all the papers also includes selected posters and video clips from the Virtual Field Trip session; the latter being a major success at the conference. The proceedings volumes of this seventh conference are therefore a 'must' for every petroleum geoscientist's bookshelf.

### • Memoir 36

## The Geological Record of Neoproterozoic Glaciations

Edited by E. Arnaud, G. P. Halverson and G. Shields-Zhou

In recent years, interest in Neoproterozoic glaciations has grown as their pivotal role in Earth system evolution has become increasingly clear. One of the main goals of the IGCP Project number 512 was to produce a synthesis of newly available information on Neoproterozoic successions worldwide similar in format to Hambrey & Harland's (1981) *Earth's pre Pleistocene Glacial Record*. This Memoir therefore consists of a series of overview chapters followed by site-specific chapters. The overview chapters cover key topics including the history of research on Neoproterozoic glaciations, identification of glacial deposits, chemostratigraphic techniques and datasets, palaeomagnetism, biostratigraphy, geochronology and climate modelling. The site specific chapters for 60 successions worldwide include reviews of the history of research on these rocks and up-to-date syntheses of the structural framework, tectonic setting, palaeomagnetic and geochronological constraints, physical, biological, and chemical stratigraphy, and descriptions of the glaciogenic and associated strata, including economic deposits.

### • Memoir 35

## Arctic Petroleum Geology

Edited by A. M. Spencer, A. F. Embry, D. L. Gautier, A. V. Stoupakova and K. Sørensen

The vast Arctic region contains nine proven petroleum provinces with giant resources but over half of the sedimentary basins are completely undrilled, making the region the last major frontier for conventional oil and gas exploration. This book provides a comprehensive overview of the geology and the petroleum potential of the Arctic. Nine papers offer a circum-Arctic perspective on the Phanerozoic tectonic and palaeogeographic evolution, the currently recognized sedimentary basins, the gravity and magnetic fields and, perhaps most importantly, the petroleum resources and yet-to-find potential of the basins. The remaining 41 papers provide data-rich, geological and geophysical analyses and individual oil and gas assessments of specific basins throughout the Arctic. These detailed and well illustrated studies cover the continental areas of Laurentia, Baltica and Siberia and the Arctic Ocean. Of special interest are the 13 papers providing new data and interpretations on the extensive, little known, but promising, basins of Russia.

### • Memoir 34

## The Life and Work of Professor J. W. Gregory FRS (1864-1932): Geologist, Writer and Explorer

B. E. Leake

Gregory's remarkable career and his scientific work are detailed and critically assessed. Accounts of his heroic 1893 expedition to the Rift Valley (a term he coined) in Kenya (now the Gregory Rift), his first crossing of Spitzbergen, and his resignation as Leader of the first British Antarctic Expedition of 1901, when racing to the Pole under Scott became the priority, draw on unpublished letters. While in Melbourne he published on mining geology and a series of geography textbooks. His 1901 Lake Eyre expedition in Central Australia initiated the phrase 'The Dead Heart of Australia' and controversy over the source of artesian water. In the Chair of Geology in Glasgow from 1904, he built up the largest first-year geology class in the UK, over 400 students. He worked in every field of geology and every continent except Antarctica. He was also involved with the search for a 'homeland' for the Jews in Libya and Angola. He shrewdly realized that Wegener's Continental Drift Theory erroneously supposed that the Pacific Ocean was wider than now before the Atlantic opened. This led to his influential rejection of Continental Drift. He drowned in Peru traversing the Andes having published over 30 books and nearly 400 articles.

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## • Engineering Geology Special Publication 24

### Slope Engineering for Mountain Roads

*Edited by G. J. Hearn*

This book provides a complete guide to the study, design, construction and management of landslide and slope engineering measures for mountain roads, with an emphasis on low-cost. The geographical focus of the book is on the tropics and sub-tropics, but is also highly relevant to other regions where heavy rain, steep slopes and weak soils and rocks combine to create slope instability. The causes and mechanisms of landslides are described, and the hazards they pose to mountain roads are illustrated. Methods of desk study, field mapping and ground investigation are reviewed and illustrated, with an emphasis on geomorphological and engineering geological techniques. The design and construction of alignments, earthworks, drainage, retaining structures, the stabilization of soil slopes and rock slopes, and the control of erosion on slopes and in rivers and streams are covered. Slope management as part of road maintenance and operation is reviewed, and procedures for risk assessment and works prioritization are described.

## • Engineering Geology Special Publication 23

### Weathering as a Predisposing Factor to Slope Movements

*Edited by D. Calcaterra and M. Parise*

This volume is intended to provide an up-to-date overview of the approaches, methodologies and techniques devoted to better understanding of the weathering conditions of rock masses on slopes. According to the local conditions, a variety of slope movements may take place and involve weathered rock masses. Shallow and rapid soil slips evolving to debris flows are probably the most common type of slope movement. At the same time, deep-seated, intermittent landslides can also affect large volumes of weathered rocks and soils. Despite the high frequency of landslides in weathered materials, and the damage and casualties they repeatedly cause, little is known about the relationship between weathering and slope movements. This book presents worldwide case studies, where a variety of geological and geomorphological settings are discussed. The content is divided into three sections: the first is devoted to broad aspects of the weathering/landslide processes; the second and third sections include papers dealing with igneous/metamorphic and sedimentary weathered rocks, respectively.

## • Rock-Forming Minerals Volume 5A

### Oxides, Hydroxides and Sulphides (Second Edition)

*By J. F. W. Bowles, R. A. Howie, D. J. Vaughan and J. Zussman*

Volume 5A of this second edition of Rock-Forming Minerals focuses on oxides, hydroxides and sulphides. Since the publication of the first edition, in 1962, there has been an enormous increase in the literature devoted to these minerals. This new edition, greatly expanded and rewritten, covers aspects that include crystal structures, chemical compositions, electronic structures, phase relations, thermochemistry, mineral surface structure and reactivity, physical properties, distinguishing features and parageneses (including stable isotope data).

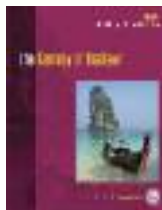
## • Rock-Forming Minerals Volume 3B

### Layered Silicates Excluding Micas and Clay Minerals (Second Edition)

*By W. A. Deer, R. A. Howie and J. Zussman*

This extensive revision deals with the minerals talc, pyrophyllite, chlorite, serpentine, stilpnomelane, zussmanite, prehnite and apophyllite. The text has been completely rewritten and very much expanded to take account of the many advances that have been made in all aspects of the Earth sciences, not least mineralogy. Each chapter is headed by a brief tabulation of mineral data and ends with full references. Crystal structures are described and illustrated, followed by discussion of structural information gained from spectroscopic as well as X-ray and electron-optic methods. Chemical sections include many analyses and structural formulae, phase relations, igneous, metamorphic and sedimentary geochemistry, alteration and weathering. Examples are given of a range of mineral parageneses. Correlation between the various aspects of mineralogy are emphasized in order to provide a scientific understanding of minerals as well as their description and identification.

Rock-Forming Minerals is an essential reference work for professionals, researchers and postgraduate students in Earth science and related fields in chemistry, physics, engineering, environmental and soil sciences.

**NEW**

## The Geology of Thailand

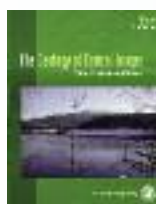
*Edited by M. F. Ridd, A. J. Barber and M. J. Crow*

This is the first volume in the English language to cover the entire range of the geology of Thailand since the joint Thai–US account by Brown *et al.* exactly 60 years ago. Over this period there has been a phenomenal growth in interest in this core area of SE Asia. This has been led by geologists in Thailand, but with important and highly significant input from geologists based elsewhere in Asia and in Europe, Australasia and North America. Some of that research was prompted by commercial considerations, since Thailand has important energy and mineral resources, while other research has sought to understand better the stratigraphic and structural history, including the plate-tectonic story which Thailand's rocks reveal. This new volume seeks to bring together all of this knowledge into a single accessible book; it is the work of an international team drawn from Thailand, Japan, Australia, USA, Canada, Germany and the UK.

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Hardback online bookshop code: **GOTHH**

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(Cat no tbc)



## The Geology of Central Europe

### Volume 1: Precambrian and Palaeozoic Volume 2: Mesozoic and Cenozoic

*Edited by T. McCann*

This two-volume set provides the first comprehensive account in English of the geology of Central Europe. Written by more than 200 scientists from universities and research centres spread across Europe and North America, the 21 chapters are based on the main stratigraphic periods. Individual chapters outline the evolution of the region, including overviews of the stratigraphic framework, climate, sea-level variations, palaeogeography and magmatic activity. These are followed by detailed descriptions of the Central European succession, covering the main basins and magmatic provinces. Each chapter is thoroughly referenced, providing a unique and valuable information source.

Volume 1 focuses on the evolution of Central Europe from the Precambrian to the Permian, a dynamic period which traces the formation of Central Europe from a series of microcontinents that separated from Gondwana through to the creation of Pangaea. Separate summary chapters on the Cadomian, Caledonian and Variscan orogenic events as well as on Palaeozoic magmatism provide an overview of the tectonic and magmatic evolution of the region. These descriptions sometimes extend beyond the borders of Central Europe to take in the Scottish and Irish Caledonides as well as the Palaeozoic successions in the Baltic region.

Volume 2 provides an overview of the Mesozoic and Cenozoic evolution of Central Europe. This period commenced with the destruction of Pangaea and ended with the formation of the Alps and Carpathians and the subsequent Ice Ages. Separate summary chapters on the Permian to Cretaceous tectonics and the Alpine evolution are also included. The final chapter provides an overview of the fossils fuels, ore and industrial minerals in the region.

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  - Online bookshop code: **CEV2H**
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## The Geology of Chile

*Editors: T. Moreno and W. Gibbons*

This book is the first comprehensive account in English of the geology of Chile, providing a key reference work that brings together many years of research, and written mostly by Chilean authors from various universities and other centres of research excellence. The 13 chapters begin with a general overview, followed by detailed accounts of Andean tectonostratigraphy and magmatism, the amazingly active volcanism, the world class ore deposits that have proven to be so critical to the welfare of the country, and Chilean water resources. The subject then turns to geophysics with an examination of neotectonics and earthquakes, the hazardous frequency of which is a daily fact of life for the Chilean population. There are chapters on the offshore geology and oceanography of the SE Pacific Ocean, subjects that continue to attract much research not least from those seeking to understand world climatic variations, and on late Quaternary land environments, concluding with an account examining human colonization of southernmost America.

- ISBN: 978-1-86239-291-9 Hardback
- ISBN: 978-1-86239-220-5 Paperback
- July 2007 • 424 pages
- Prices - Hardback:** List: **£85.00/US\$170.00**  
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- ISBN: 978-1-86239-307-3
- September 2010
- 400 pages • Hardback
- **Prices:**
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- IAVCEI: **£47.50/US\$95.00**
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Online bookshop code: IAV003



- ISBN: 978-1-86239-280-9
- August 2009
- 416 pages • Hardback
- **Prices:**
- List: **£110.00/US\$220.00**
- GSL: **£66.00/US\$132.00**
- Other qualifying societies:
- £55.00/US\$110.00** (Cat no 1027)
- Online bookshop code: IAV002



- ISBN: 978-1-86239-305-9
- September 2010
- 304 pages • Hardback
- **Prices:**
- List: **£90.00/US\$180.00**
- TMS: **£45.00/US\$90.00**
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- Online bookshop code: TMS004



- ISBN: 978-1-86239-274-8
- June 2009
- 496 pages • Hardback
- **Prices:**
- List: **£100.00/US\$200.00**
- TMS: **£50.00/US\$100.00**
- GSL: **£60.00/US\$120.00**
- (Cat no 1068)
- Online bookshop code: TMS003

### • Special Publication of IAVCEI No. 3

## The Colli Albani Volcano

*Edited by R. Funicello and G. Giordano*

The Colli Albani volcano (also Alban Hills volcano) is the large quiescent volcanic field that dominates the Roman skyline. The Colli Albani is one of the most explosive mafic calderas in the world, associated with intermediate to large volume ignimbrites. At present it shows signs of unrest, including periodic seismic swarms, ground uplift and intense diffuse degassing, which are the main short-term hazards. New studies have discovered deposits related to previously unknown pre-Holocene and Holocene volcanic and phreatic activity. In the fourth Century B.C.E. Roman engineers excavated a tunnel through the Albano maar crater wall to keep the lake from breaching the rim and flooding the surrounding countryside, events that had previously destroyed this region several times. *The Colli Albani Volcano* contains 21 scientific contributions on stratigraphy, volcanotectonics, geochronology, petrography and geochemistry, hydrogeology, volcanic hazards, geophysics and archaeology, and a new 1:50 000 scale geological map of the volcano. The proximity to Rome and the interconnection between volcanic and human history also make this volcano of interest for both specialists and non-specialists.

### • Special Publication of IAVCEI No. 2

## Studies in Volcanology: The Legacy of George Walker

*Edited by T. Thordarson, S. Self, G. Larsen, S. K. Rowland and Á. Höskuldsson*

Professor George Patrick Leonard Walker was one of the fathers of modern quantitative volcanology and arguably the foremost volcanologist of the twentieth century. In his long career, George studied a wide spectrum of volcanological problems and in doing so influenced almost every branch of the field. This volume, which honours his memory and his contributions to the field of volcanology, contains a collection of papers inspired by, and building upon, many of the ideas previously developed by George. Many of the contributors either directly studied under and worked with George, or were profoundly influenced by his ideas. The topics broadly fall under the three themes of lava flows and effusion, explosive volcanism, and volcanoes and their infrastructure.

### • TMS Special Publication 4

## Micropalaeontology, Sedimentary Environments and Stratigraphy: A Tribute to Dennis Curry (1912-2001)

*Edited by J. E. Whittaker and M. B. Hart*

Dennis Curry was a remarkable polymath and philanthropist, leading a double-life as one of the UK's most gifted amateur geologists, whilst at the same time being an extremely successful businessman (as Managing Director of Currys Ltd). This Festschrift, authored by friends and specialists from Britain and France, pays tribute to his often seminal research as well as exhibiting the wide range of his geological interest. It contains 12 chapters and covers several differing aspects of micropalaeontology (pteropods, diatoms and especially foraminifera), Strontium Isotope Stratigraphy, Hampshire Basin stratigraphy and palaeogeography, as well as major contributions on English Channel sedimentology and the great faunal turnover affecting mammals at the Eocene-Oligocene boundary. A scientific appreciation of Dennis Curry, "the professional amateur", with recollections of former colleagues at University College, London (where he was Visiting Professor), together with an assessment of the valuable collections he established and donated to The Natural History Museum, are also included. Copiously illustrated, this book is a must for all geologists.

### • TMS Special Publication 3

## Ostracods in British Stratigraphy

*Edited by J. E. Whittaker and M. B. Hart*

This book charts the stratigraphical distribution of ostracods in the Cambrian to Pleistocene deposits of Britain and outlines their utility for dating and correlating rock sequences, as well as indicating aspects of their palaeoenvironmental and palaeogeographical significance. These small bivalved crustaceans are the most abundant arthropods in the fossil record. Indeed, the stratigraphy of Britain, which embraces many type-sequences, provides a particularly rich and full record of them, from at least the basal Ordovician, and from the British Cambrian there is a biostratigraphy based on their 'relatives', the bradoriids and phosphatocopids. Ostracod distributions demonstrate the ecological success story of the group, occupying as they do marine, non-marine and even 'terrestrial' habitats. Written by current specialists in the field, this book is an authoritative account and will be welcomed by all micropalaeontologists and applied geologists in the industrial and academic world alike. It is richly illustrated with over 80 plates of electron micrographs and specially drawn maps, diagrams and range-charts.

## Journal



- Volume 169, 2012
  - 6 issues per year
  - ISSN 0016-7649
  - **Online Only**  
UK: **£842.00**  
Overseas:  
**£935.00/US\$1871.00**
  - **Online and Print**  
UK: **£948.00**  
Overseas:  
**£1052.00/US\$2105.00**
- (See page 2 for details)

## • Journal

**Journal of the Geological Society**

Chief Editor: Q. Crowley

- JGS is a GeoRef priority journal • Latest impact factor 3.297
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The Journal of the Geological Society (JGS) is internationally respected for its wide coverage of world geology and for works that elucidate large-scale geological structures. We encourage articles in which data from different disciplines are synthesized to reach significant conclusions regarding a particular geological process or region that may be applied and adopted elsewhere.

Submissions to the journal should be made online at <http://jgs.allentrack.net>

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## Journal



- Volume 45, 2012
  - 4 issues per year
  - ISSN 1470-9236
  - **Online Only**  
UK: **£399.00**  
Overseas:  
**£447.00/US\$893.00**
  - **Online and Print**  
UK: **£449.00**  
Overseas:  
**£502.00/US\$1005.00**
- (See page 2 for details)

## • Journal

**Quarterly Journal of Engineering Geology and Hydrogeology**

Scientific Editor: M. G. Winter Assistant Scientific Editors: M. G. Culshaw, E. Bromhead and M. Streetly

The *Quarterly Journal of Engineering Geology and Hydrogeology* is published by the Geological Society and is an established international journal with subscriber numbers of over 4000 worldwide. Papers are invited from, and about, all areas of the world on engineering geology and hydrogeology topics including all relevant aspects of the approach of geology to civil engineering, mining practice and water resources. This includes, but is not limited to: applied geophysics, engineering geomorphology, environmental geology, hydrogeology, groundwater quality, contaminated land, waste management, land use planning, geotechnics, rock mechanics, soil mechanics, geomaterials and geological hazards. The journal includes the prestigious Glossop and Ineson lectures, research papers, case histories, review articles, technical notes, photographic features, discussion, book reviews and periodic reports.

Submissions to the journal should be made online at <http://qjgeh.allentrack.net>

Available on  
[www.GeoScienceWorld.org](http://www.GeoScienceWorld.org)  
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## Journal



- Volume 12, 2012
  - 4 issues per year
  - ISSN 1467-7873
  - **Online Only**  
UK: **£215.00**  
Overseas:  
**£243.00/US\$487.00**
  - **Online and Print**  
UK: **£285.00**  
Overseas:  
**£274.00/US\$548.00**
- (See page 2 for details)

## • Journal

**Geochemistry: Exploration, Environment, Analysis**

Chief Editor: G. E. M. Hall Associate Editors: M. Leybourne and J. Carranza

Co-published with the Association of Applied Geochemists, Geochemistry: Exploration, Environment, Analysis.

It covers the latest developments in exploration and environmental geochemistry and will be of interest to practising geochemists in industry, professional geologists, environmental geochemists, and geoscientists in academia and government.

GEEA covers the geochemistry of the environment surrounding mineral deposits and mines. It is available in hard and electronic copy.

Submissions to the journal should be made online at <http://geea.allentrack.net>

Available on  
[www.GeoScienceWorld.org](http://www.GeoScienceWorld.org)  
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## Journal



- Volume 18, 2012 • 4 issues per year
- ISSN 1354-0793
- **Online Only:**  
UK: **£361.00**
- Overseas: **£361.00/US\$772.00**
- **Online and Print:**  
UK: **£406.00**
- Overseas: **£406.00/US\$813.00**  
(See page 2 for details)

## • Journal

Available on [www.GeoScienceWorld.org](http://www.GeoScienceWorld.org)  
and [www.lyellcollection.org](http://www.lyellcollection.org) for 2011

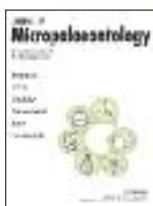
**Petroleum Geoscience**

*Editor-in-Chief: P. A. F. Christie Co-Editors: A. J. Fraser, A. Mugeridge and J. Underhill*

Co-published with EAGE, *Petroleum Geoscience* is an outstanding refereed journal providing a multidisciplinary outlet for the publication needs of those involved in the science and technology associated with rock-related petroleum disciplines. The journal aims to improve knowledge of petroleum geoscience and reflect the international nature of the petroleum industry.

Submissions to the journal should be made online at <http://petgeo.allentrack.net>

## Journal



- Volume 31, 2012 • 2 issues per year
- ISSN 0262-821X
- **Online Only:**  
UK: **£184.00**
- Overseas: **£184.00/US\$368.00**
- **Online and Print:**  
UK: **£207.00**
- Overseas: **£207.00/US\$413.00**  
(See page 2 for details)

## • Journal

Available on [www.lyellcollection.org](http://www.lyellcollection.org)

**Journal of Micropalaeontology**

*Edited by A. Lord*

*Journal of Micropalaeontology* is the journal of The Micropalaeontological Society. The scope of the journal is broad, especially to show the application of microfossils to solving geological problems but with an emphasis on taxonomy. The principal fields of interest are biostratigraphy, evolution, palaeobiology, palaeoenvironments, reviews and taxonomic studies, with an emphasis on applications.

Our aim is to attract high-quality papers that will prove to be influential in the development of our science.

## Journal



- Volume 48, 2012 • 2 issues per year
- ISSN 0036-9276
- **Online Only:**  
UK: **£200.00**
- Overseas: **£200.00/US\$400.00**
- **Online and Print:**  
UK: **£225.00**
- Overseas: **£225.00/US\$450.00**  
(See page 2 for details)

## • Journal

Available on [www.lyellcollection.org](http://www.lyellcollection.org)

**Scottish Journal of Geology**

*Scientific Editors: I. Alsop, B. Bell, C. J. R. Braithwaite, R. W. Duck, A. McGowan and K. Hitchen*

The *Scottish Journal of Geology* is a joint publication of the Geological Societies of Edinburgh and Glasgow. First published in 1965, it grew from the former Transactions of the two Societies that began in 1860 in Glasgow and 1863 in Edinburgh. This long history underlines the role that Scotland has played since the days of Hutton and Lyell in developing geological ideas, and much of this seminal work was published in the Journal and its predecessors.

## Journal



- Volume 59, parts 3 & 4, 2012
- 2 issues per year • ISSN 0044-0604
- **Online Only:**  
UK: **£162.00**
- Overseas: **£162.00/US\$324.00**
- **Online and Print:**  
UK: **£183.00**
- Overseas: **£183.00/US\$365.00**  
(See page 2 for details)

## • Journal

Available on [www.lyellcollection.org](http://www.lyellcollection.org)

**Proceedings of the Yorkshire Geological Society**

*Edited by S. G. Molyneux*

The *Proceedings of the Yorkshire Geological Society* has been published without a break since 1839. It is one of the leading journals of British geology. Each year two parts are issued containing original research papers on all aspects of geology. Traditionally the Proceedings has given particular attention to the geology of northern England and its neighbouring areas. The submission of papers on related topics, but also those of more general interest, is encouraged. All papers are subjected to the full scrutiny of two independent referees. The Proceedings has a long-standing scientific reputation and now appears in Current Contents and other ISI products.

