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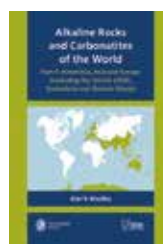
NEW

Special Publication 482

Multiple Roles of Clays in Radioactive Waste Confinement

Edited by S. Norris, E.A.C. Neeft, M. Van Geet

This Special Publication highlights the importance of clays and clayey material, and their multiple roles, in many national geological disposal facilities for higher activity radioactive wastes. Clays can be both the disposal facility host rock and part of its intrinsic engineered barriers, and may be present in the surrounding geological environment. Clays possess various characteristics that make them high-quality barriers to the migration of radionuclides and chemical contaminants, e.g. very little water movement, diffusive transport, retention capacity, self-sealing capacity, stability over millions of years, homogeneity and lateral continuity.



ISBN: 978-1-78620-445-5
Publisher: GSL
September 2019
562 Pages Hardback
Prices
List: **£120**
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Buy online: www.geolsoc.org.uk/MPAR4

NEW

Alkaline Rocks and Carbonatites of the World, Part 4: Antarctica, Asia and Europe (excluding the former USSR), Australasia and Oceanic Islands

By A.R. Woolley

The alkaline igneous rocks and carbonatites are compositionally and mineralogically the most diverse of all igneous rocks and, apart from their scientific interest, are of major, and growing, economic importance. They are important repositories of certain metals and commodities, indeed the only significant sources of some of them, and include Nb, the rare earths, Cu, V, diamond, phosphate, vermiculite, bauxite, raw materials for the manufacture of ceramics, and potentially Th and U. The economic potential of these rocks is now widely appreciated, particularly since the commencement of the mining of the Palabora carbonatite for copper and a host of valuable by-products.



ISBN: 978-1-78620-382-3
Publisher: GSL and IUGS
October 2019
610 Pages Hardback
Prices
List: **£150**
Fellows' price: **£75**
Other societies: **£90**
Buy online: www.geolsoc.org.uk/sp477

NEW

Special Publication 477

Subaqueous Mass Movements and Their Consequences: Assessing Geohazards, Environmental Implications and Economic Significance of Subaqueous Landslides

Edited by D.G. Lintern, D.C. Mosher, L.G. Moscardelli, P.T. Bobrowsky, C. Campbell, J.D. Chaytor, J.J. Clague, A. Georgiopolou, P. Lajeunesse, A. Normandeau, D.J.W. Piper, M. Scherwath, C. Stacey and D. Turmel

The challenges facing submarine mass movement researchers and engineers are plentiful and exciting. This book follows several high-profile submarine landslide disasters that have reached the world's attention over the past few years. For decades, researchers have been mapping the world's mass movements. Their significant impacts on the Earth by distributing sediment on phenomenal scales is undeniable. Their importance in the origins of buried resources has long been understood. Their hazard potential ranges from damaging to apocalyptic, frequently damaging local infrastructure and sometimes devastating whole coastlines.



ISBN: 978-1-78620-401-1
Publisher: GSL
July 2019
250 Pages Hardback
Prices
List: **£90**
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Buy online: www.geolsoc.org.uk/sp479

NEW

Special Publication 479

Groundwater in Fractured Bedrock Environments: Managing Catchment and Subsurface Resources

Edited by U. Ofterdinger, A. M. MacDonald, J.-C. Comte and M. E. Young

Fractured bedrock aquifers have traditionally been regarded as low-productivity aquifers, with only limited relevance to regional groundwater resources. It is now being increasingly recognised that these complex bedrock aquifers can play an important role in catchment management and subsurface energy systems. At shallow to intermediate depth, fractured bedrock aquifers help to sustain surface water baseflows and groundwater dependent ecosystems, provide local groundwater supplies and impact on contaminant transfers on a catchment scale. At greater depths, understanding the properties and groundwater flow regimes of these complex aquifers can be crucial for the successful installation of subsurface energy and storage systems, such as deep geothermal or Aquifer Thermal Energy Storage systems and natural gas or CO₂ storage facilities as well as the exploration of natural resources such as conventional/unconventional oil and gas.

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June 2018

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NEW

Special Publication 480

Aspects of the Life and Works of Archibald Geikie

Edited by J. Betterton, J. Craig, J.R. Mendum, R. Neller and J. Tanner

Sir Archibald Geikie (1835–1924) was one of the most distinguished and influential geologists of the late nineteenth and early twentieth centuries. He was Director-General of the Geological Survey of Great Britain, President of the Geological Society of London, President of the British Association, Trustee of the British Museum and President of the Royal Society. He was also an accomplished writer, a masterful lecturer and a talented artist who published over 200 scientific papers, books and articles. The papers in this volume examine aspects of Geikie's life and works, including his family history, his personal and professional relationships, his art, and his contributions as a field geologist and administrator.



ISBN: 987-1-78620-399-1

Publisher: GSL

May 2019

362 Pages Hardback

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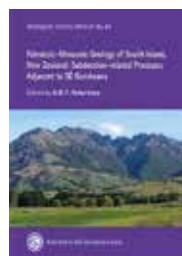
NEW

Special Publication 474

HP-UHP Metamorphism and the Tectonic Evolution of Orogenic Belts

Edited by L. Zhang, Z. Zhang, H.-P. Schertl and C. Wei

High pressure (HP) and ultrahigh pressure (UHP) metamorphic rocks play a key role in understanding the tectonic evolution of orogenic belts. They have typically experienced complex changes during subduction and exhumation processes arising from recrystallization, deformation, fluid-rock interactions and even partial melting, and may therefore carry valuable records of evolving geodynamic systems in an orogenic belt. This special publication addresses the current work on HP-UHP metamorphism and its relation to the tectonic evolution of orogenic belts.



ISBN: 987-1-78620-430-1

Publisher: GSL

May 2019

378 Pages Hardback

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NEW

Memoir 49

Paleozoic-Mesozoic Geology of South Island, New Zealand: Subduction-related Processes Adjacent to SE Gondwana

Edited by A.H.F. Robertson

This volume presents a set of research papers that provide new data and interpretations of the Permian-Triassic terranes of SE Gondwana, now exposed in South Island, New Zealand. Following an introduction for general readers, a historical summary and a review of biostratigraphy, the individual papers primarily focus on the Permian magmatic arc of the Brook Street Terrane, the classic Permian Dun Mountain ophiolite and the Permian-Triassic Maitai Group sedimentary succession. The new results emphasize the role of subduction and terrane displacement adjacent to the Permo-Triassic Gondwana margin, and present fundamental insights into three crustal processes: subduction initiation, supra-subduction zone oceanic crust genesis and forearc basin evolution. The volume concludes with a wide-ranging summary and synthesis of the regional Cambrian to Early Cretaceous tectonostratigraphy of New Zealand's South Island in relation to the wider areas of Zealandia, East Australia and West Antarctica.



ISBN: 987-1-78620-400-4

Publisher: GSL

April 2019

482 Pages Hardback

Prices

List: £120

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NEW

Special Publication 478

Metamorphic Geology: Microscale to Mountain Belts

Edited by S. Ferrero, P. Lanari, P. Goncalves and E. G. Grosch

In Earth evolution, mountain belts are the loci of crustal growth, reworking and recycling. These crustal-scale processes are unravelled through microscale investigations of textures and mineral assemblages of metamorphic rocks. Multiple episodes of metamorphism, re-equilibration and deformation, however, generally produce a complex and tightly interwoven pattern of microstructures and assemblages. Over the last two decades, the combination of advanced computing and technological capabilities with new concepts has provided a vast array of novel petrological tools and high-resolution/high-sensitivity techniques for microanalysis and imaging.



ISBN: 987-1-78620-397-7

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288 Pages Hardback

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List: £100

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NEW

Special Publication 475

Glaciated Margins: The Sedimentary and Geophysical Archive

Edited by D. P. Le Heron, K. A. Hogan, E. R. Phillips, M. Huuse, M. E. Busfield and A. G. C. Graham

Understanding the sedimentary and geophysical archive of glaciated margins is a complex task that requires integration and analysis of disparate sedimentological and geophysical data. Their analysis is vital for understanding the dynamics of past ice sheets and how they interact with their neighbouring marine basins, on timescales that cannot be captured by observations of the cryosphere today. As resources, sediments deposited on the inner margins of glaciated shelves also exhibit resource potential where more sand-dominated systems occur, acting as reservoirs for both hydrocarbons and water.



ISBN: 987-1-78620-395-3

Publisher: GSL

March 2019

398 Pages Hardback

Prices

List: £125

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NEW

Special Publication 471

Paleozoic Plays of NW Europe

Edited by A. A. Monaghan, J. R. Underhill, A. J. Hewett and J. A. E. Marshall

North Sea and onshore Netherlands and Germany, Paleozoic hydrocarbon plays across parts of NW Europe remain relatively under-explored both onshore and offshore. This volume brings together new and previously unpublished knowledge about the Paleozoic plays of NW Europe to describe significant additional exploration opportunities outside and below existing plays. The volume contains papers on Paleozoic plays in the North Sea, Irish Sea, onshore UK, France and Switzerland.



ISBN: 987-1-78620-360-1

Publisher: GSL

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440 Pages Hardback

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List: £120

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NEW

Special Publication 467

Martian Gullies and their Earth Analogues

Edited by S.J. Conway, J.L. Carrivick, P.A. Carling, T. de Haas and T.N. Harrison

Gullies on Mars resemble terrestrial gullies involved in the transport of abundant material down steep slopes by liquid water. However, liquid water should not be stable at the Martian surface. The articles in this volume present the two main opposing theories for Martian gully formation: climate-driven melting of surficial water-ice deposits and seasonal dry-ice sublimation. The evidence presented ranges from remote-sensing observations, to experimental simulations, to comparison with Earth analogues. The opposing hypotheses imply either that Mars has been unusually wet in the last few million years or that it has remained a cold dry desert – both with profound implications for understanding the water budget of Mars and its habitability.



ISBN: 987-1-78620-394-6

Publisher: GSL

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314 Pages Hardback

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Buy online: www.geolsoc.org.uk/sp473

NEW

Special Publication 473

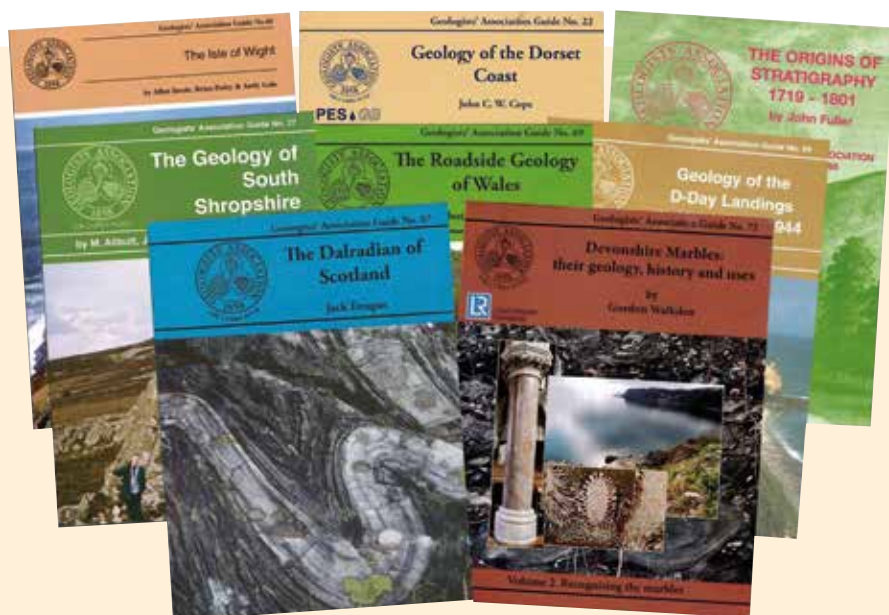
Military Aspects of Geology: Fortification, Excavation and Terrain Evaluation

E. P. F. Rose, J. Ehlen and U. L. Lawrence

This book complements the Geological Society's Special Publication 362: Military Aspects of Hydrogeology. Generated under the auspices of the Society's History of Geology and Engineering Groups, it contains papers from authors in the UK, USA, Germany and Austria. Substantial papers describe some innovative engineering activities, influenced by geology, undertaken by the armed forces of the opposing nations in World War I. These activities were reactivated and developed in World War II. Examples include trenching from World War I, tunnelling and quarrying from both wars, and the use of geologists to aid German coastal fortification and Allied aerial photographic interpretation in World War II.

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At One Communications

July 2019

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Beyond Extinction, The Eternal Ocean: Climate change & the continuity of life

By Wolfgang Grulke

The ocean is the womb of all life on earth. It is beautiful and bizarre, violent and mysterious. Inhabited by a cast of characters stolen from fantasy, it's a dystopian world where dragons are real, and monsters are commonplace. Today's spectacular marine life has an ancient history preserved in stone - fossil strata that read like dramatic pages from the longest story ever told: tales of evolution, extinction, and surprising continuity.

Having thrived a tumultuous 500 million years, this marine kingdom is now challenged by a new, arrogant and domineering life form. This book looks beyond the media focus on climate change and extinction to celebrate the continuity of ocean life.



ISBN: 978-0-85704-337-5

Publisher: Halsgrove

March 2019

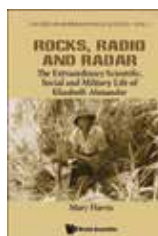
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ISBN: 978-1-78634-664-3

Publisher: World Scientific

May 2019

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Price

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ISBN: 978-1-90526-788-0

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Edinburgh Geological Society

March 2015

232 pages Paperback

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William Smith's Fossils Reunited

By Peter Wigley (editor) with Jill Darrell, Diana Clements and Hugh Torrens

With a Foreword by Sir David Attenborough, William Smith's Fossils Reunited is intended both for the William Smith enthusiast and also for those with a more general interest in the work of this remarkable pioneering geologist. The fossil illustrations and maps in this exquisite volume are aesthetically pleasing in their own right and demonstrate the extraordinary skill of early nineteenth-century engravers and map makers.

Rocks Radio and Radar: The Extraordinary Scientific, Social and Military Life of Elizabeth Alexander

By Mary Harris

Many women scientists, particularly those who did crucial work in two world wars, have disappeared from history. Until they are written back in, the history of science will continue to remain unbalanced. This book tells the story of Elizabeth Alexander, a pioneering scientist who changed thinking in geology and radio astronomy during WWII and its aftermath.

A Geological Excursion Guide to the Stirling and Perth Area

Edited by M.A.E. Browne & C. Gillen

The Stirling and Perth area comprises some wonderfully varied geology, from the Dalradian metamorphic rocks in the southern Highlands to a range of sedimentary and igneous rocks within the Midland Valley. The eighteen excursions in this book guide the reader to the best geology that this region has to offer, from complex metamorphic rocks around Dunkeld, through the terrestrial old red sandstone around Perth, to the younger and more varied Carboniferous sedimentary rocks south of Stirling.

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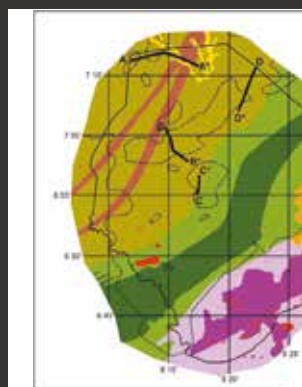
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Fractures in shale: the significance of igneous intrusions for groundwater

By Alan M. Macdonald and Jeff Davies

Research in Cretaceous shales from West Africa has demonstrated that significant permeability can develop within shales at shallow depths (<100 m), equivalent to a permeability of >1 m day⁻¹.

Read more in the Lyell Collection: <https://sp.lyellcollection.org/content/479/1/71>

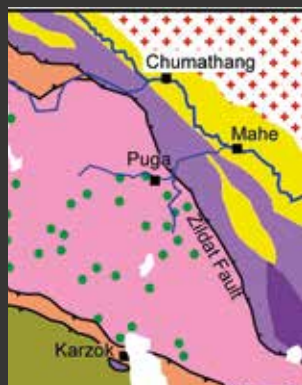


Paleozoic gas potential in the Weald Basin of southern England

By Christopher P. Pullan and Malcolm Butler

Gas has been found in Mesozoic reservoirs in the Weald Basin, particularly along the northern margin. Most of the gas is dry, with a high methane content and often associated nitrogen.

Read more in the Lyell Collection: <https://sp.lyellcollection.org/content/471/1/333>



Tso Moriri coesite eclogite: pseudosection predictions v. the preserved record and implications for tectonomorphic models

By Patrick J. O'Brien

Ultrahigh-pressure eclogites of the Tso Moriri area, NW Himalaya (Ladakh, India), have been intensively investigated petrographically and petrologically with surprisingly different results.

Read more in the Lyell Collection: <https://sp.lyellcollection.org/content/474/1/5>



Military use of geologists and geology: a historical overview and introduction

By Edward P.F. Rose, Judy Ehlen and Ursula Lawrence

Napoleon Bonaparte was, in 1798, the first general to include geologists as such on a military operation. Within the UK, the following century saw geology taught as a military science.

Read more in the Lyell Collection: <https://sp.lyellcollection.org/content/473/1/1>



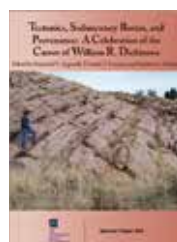
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NEW

Chesapeake Bay Impact Structure: Development of "Brim" Sedimentation in a Multilayered Marine Target

By Henning Dypvik, Gregory S. Gohn, Lucy E. Edwards, J. Wright Horton Jr., David S. Powars, and Ronald J. Litwin

The Chesapeake Bay impact structure is perhaps the best documented example of a small group of multi-layer, marine-target impacts formed in continental shelves or beneath epeiric seas. In this multidisciplinary study, new sedimentological and stratigraphical data and results—mainly from three Chesapeake Bay brim cores (Watkins School, Langley, and Bayside)—are compared to and compiled with key crater core data. This volume provides detailed understanding of the impact-related processes and sedimentation, their interaction and relative timing, and their products in the "brim," the target-sediment layer in the area outside the transient cavity.



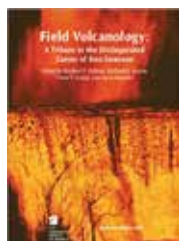
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757 pages Paperback
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List price: **£71**
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NEW

Tectonics, Sedimentary Basins, and Provenance: A Celebration of the Career of William R. Dickinson

Edited by Raymond V. Ingersoll, Timothy F. Lawton, and Stephan A. Graham

Through a remarkable combination of intellect, self-confidence, engaging humility, and prodigious output of published work, William R. Dickinson influenced and challenged three generations of sedimentary geologists, igneous petrologists, tectonicists, sandstone petrologists, archaeologists, and other geoscientists. A key figure in the plate-tectonic revolution of the 1960s and 1970s, he explained how the distribution of sediments on Earth's surface could be traced to tectonic processes, and is widely recognized as a founder of modern sedimentary basin analysis.

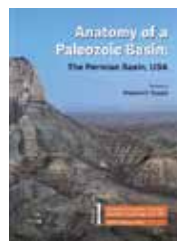


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458 pages Paperback
Prices
List price: **£43**
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Field Volcanology: A Tribute to the Distinguished Career of Don Swanson

By Michael P. Poland, Michael O. Garcia, Victor E. Camp, and Anita Grunder

Don Swanson, who received the GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division's Distinguished Geologic Career award in 2016, has adopted a detailed, field-oriented approach to studying problems of great volcanologic importance across a range of compositions and spatio-temporal scales. Swanson's work has resulted in a series of fundamental contributions that have advanced understanding of the Columbia River flood basalts, Cascade volcanic arc, and Hawai'i, and his insights have been applied not only around the world, but across the solar system.



ISBN: 978-1-81372-740-4
Publisher: AAPG
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412 pages Hardback
Prices
Price: **£36**
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NEW

Anatomy of a Paleozoic Basin: The Permian Basin, USA, Volume 1

Edited by Stephen C. Ruppel

AAPG Memoir 118. Co-published with Bureau of Economic Geology (Report of Investigations 285)

This is Volume 1 of a two-volume set. The set is the first comprehensive analysis of the Permian Basin in more than 60 years. Collectively, these chapters provide a spectrum of data and interpretations that characterize one of the largest hydrocarbon-producing basins in the world. This publication will be of interest to all who seek information on the distribution of hydrocarbons in the basin as well as to those wanting to better understand the evolution of the basin during the Phanerozoic.

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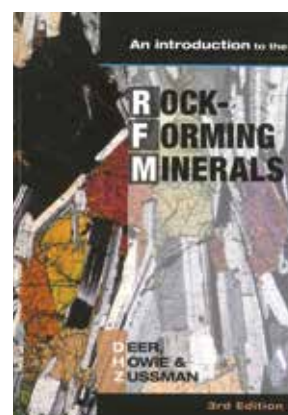
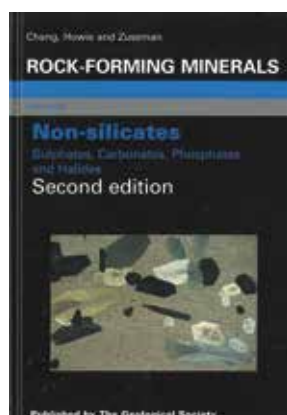
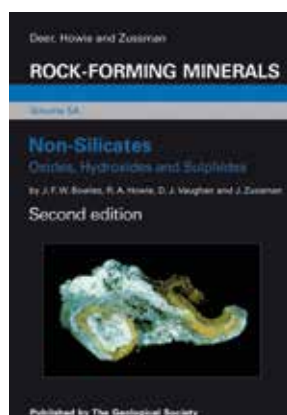
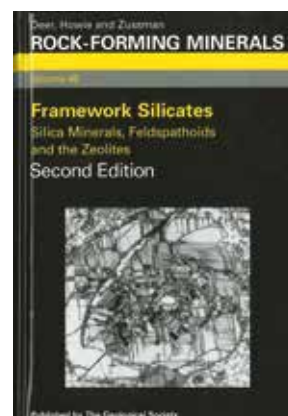
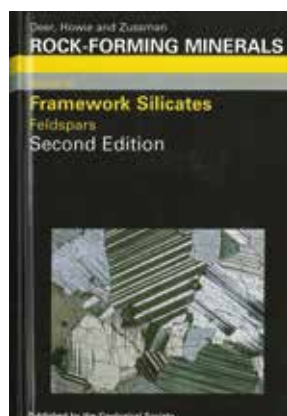
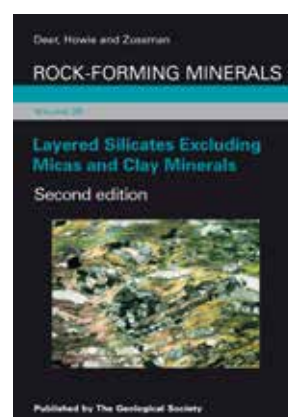
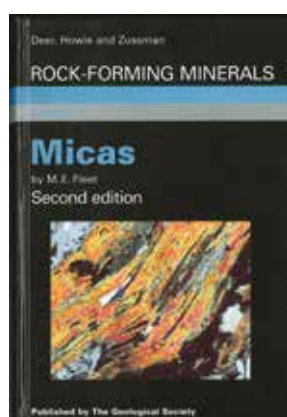
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Publisher: GSL

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An Introduction to the Rock-Forming Minerals, 3rd edition

Publisher: Mineralogical Society of Great Britain & Ireland

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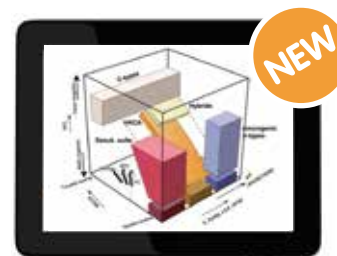


Special Publication 488
15 papers live as at 12/08/2019
sp.lyellcollection.org/online-first/488

River to Reservoir: Geoscience to Engineering

Edited by P.W.M. A. Owen, A.J. Hartley, S. Plaeueyo, D. Baretto, C. Hackney and S.J. Kape

This book presents a synthesis of research on the controls of dynamic changes to river systems, in particular under changing climatic conditions. The content covers both short engineering timescales and long geological timescales. The book will highlight the cross-disciplinary interest in rivers and their sediments and will interest geologists, geomorphologists, engineers and government agencies.



Special Publication SP489
8 papers live as at 12/08/2019
sp.lyellcollection.org/online-first/SP489

Archean Granitoids of India: Window into Early Earth Tectonics

Edited by S. dey and J.-F. Moyen

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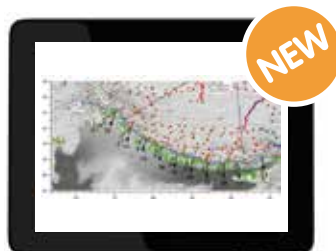


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