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Special Publication 526

The Green Stone Age: Exploration and Exploitation of Minerals for Green Technologies

Edited by M. Smelror, K. Hanghøj, H. Schiellerup

Metals and minerals are essential for improving the quality of our lives, for new green energy technologies, and for a sustainable environment. This book addresses challenges in meeting the future demand for metals and minerals and presents results from ongoing research, surveying, exploration and exploitation of key minerals needed to supply the green and sustainable societies of the future.



ISBN: 978-1-78620-571-1
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Special Publication 524

Tectonic Development, Thermal History and Hydrocarbon Habitat Models of Transform Margins

Edited by M. Nemčok, H. Doran, A. G. Doré L. Ledvényiová and S. Rybár

Transform margins form a significant portion of Earth's continent-ocean transition, yet compared to other margins are poorly understood. This volume brings together new multidisciplinary research to document the structural, sedimentological and thermal evolution of transform margins, highlighting their relationship to neighbouring oceanic segments, pull-apart basins and marginal plateaus.



ISBN: 978-1-78620-568-1
Publisher: The Geological Society
June 2023
Hardback
Buy online: www.geolsoc.org.uk/SP522



Special Publication 522

Ichtnology in Shallow-marine and Transitional Environments

Edited by C. Cónsole-Gonella, S. de Valais, I. Díaz-Martínez, P. Citton, M. Verde and D. McIlroy

The ichtnology of shallow-marine to transitional environments is a key field of study with respect to understanding the variability of environmental parameters from inshore marginal-marine settings to the offshore transition zone. Over the last decades ichtnology has evolved from being a tool to determine bathymetry, becoming the standard palaeoenvironmental methodology by which trace fossils can be used to inform sedimentary facies models. In particular, the analysis of mixed assemblages of invertebrate and vertebrate trace fossils allows detailed palaeoenvironmental and facies analysis. This volume focuses on the ichtnological record of shallow-marine to transitional environments through the geological record, in addition to modern ones through neoichtnology.



ISBN: 978-1-78620-566-7
Publisher: The Geological Society
co-published with IAVCEI
May 2023
Hardback
Prices
List: **£190**
Fellows' price: **£95**
Other societies: **£114**
Buy online: www.geolsoc.org.uk/SP520



Special Publication 520

Volcanic Processes in the Sedimentary Record: when Volcanoes meet the Environment

Edited by A. Di Capua, R. De Rosa, G. Kereszturi, E. Le Pera, M. Rosi and S.F.L. Watt

This book brings together research, review and methodological papers that provide an updated view on the sedimentary record of volcanism, spanning diverse processes and environments. It aims to bridge the gap between volcanological and sedimentological approaches to the investigation of processes governing the generation, dispersion and accumulation of volcanoclastic deposits.

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Other societies: **£78**
Buy online: www.geolsoc.org.uk/SP523

NEW



ISBN: 978-1-78620-548-3
Publisher: The Geological Society
March 2023
376 Pages Hardback
Prices
List: **£90**
Fellows' price: **£45**
Other societies: **£54**
Buy online: www.geolsoc.org.uk/SP515

Special Publication 523

Straits and Seaways: Controls, Processes and Implications in Modern and Ancient Systems

Edited by V. M. Rossi, S. Longhitano, C. Olariu and F. Chiocci

Straits and seaways are the key features that connect oceans, seas and lakes. They regulate water, sediment and biota exchanges, and influence local and global climate. A good understanding of the dynamic evolution of straits and seaways is therefore fundamental to accurately reconstruct the palaeogeography, tectonics, palaeoecology and stratigraphy of interconnected basins, the climate dynamics of Earth's past as well as to exploit both conventional and renewable energy resources. This volume provides a comprehensive collection of articles dealing with both ancient and modern case studies, bringing together different but complementary disciplines, such as marine geology, process sedimentology and stratigraphy. With the contents encompassing the evolution, geomorphology, stratigraphy, sedimentology, oceanography and palaeogeography of straits and seaways, and their influence on climate, the book will be of interest to Earth scientists working in many fields.

Special Publication 515

Quaternary Geoarchaeology of India

Edited by N. Tiwari, V. Singh and S.B. Mehra

The Quaternary Period in South Asia has a very prolonged and diverse history. Within this region, India represents various technological and cultural phases of hominin occupation adapting to different ecological zones throughout the Quaternary Period. The earliest records of this occupation can be traced back to 1.5 Ma ago and possibly to c. 2 Ma ago. Archaeological evidence has been reported from all known phases in India, showing a continuous record of occupation from the Early Pleistocene onwards and reflecting adaptation by multiple hominin species over time. This book aims to highlight recent advances in the Quaternary geoarchaeology by showcasing diverse methods such as archaeology, geology, palaeoclimatology, sedimentology, GIS, remote sensing and taphonomy. It presents a collection of papers that address various geoarchaeological aspects from different regions in India, within the time frame of the Early Pleistocene to Anthropocene. This volume provides an opportunity for new data to be disseminated, particularly by young researchers and, within the framework of worldwide research issues, it promotes new geoarchaeological perspectives from India.

Geoscience in Practice series

Geoscience in Practice is a series of books covering the use and application of geological techniques relevant to a subdiscipline. The series aims to present balanced, practical expertise and critical hands-on information from experienced contributors in a way that is clear, straightforward and relevant for a broad audience.

Deciphering Earth's History: the Practice of Stratigraphy

Edited by Angela L. Coe

Deciphering Earth's History: the Practice of Stratigraphy focuses on how to apply the wide spectrum of stratigraphical techniques. It also explains how these techniques can be integrated and details their individual strengths and limitations. Chapters are laid out in a step-by-step style, guiding the reader through a recommended approach and explaining the factors to be considered. The methods are illustrated with flow charts, marginal top tips, checklists, worked examples and over 200 figures. Authors from academia, research centres and industry have contributed to ensure a wide range of perspectives are included. In addition to chapters on each of the stratigraphical techniques there is also material on accounting for stratigraphical incompleteness, constructing geological timescales, handling and archiving stratigraphical data and the application of stratigraphy to space exploration and other disciplines.

ISBN: 978-1-78620-574-2 | Paperback | Pages: 342

List price: **£45** | Fellow's price: **£22.50** | Other societies price: **£27**

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ISBN: 978-1-78620-467-7

Publisher: GSL co-published with SCAR
February 2023

368 Pages Hardback

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ISBN: 978-1-78620-549-0

Publisher: The Geological Society
December 2022

440 Pages Hardback

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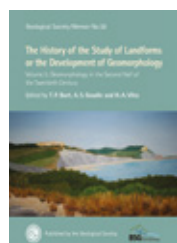
Memoir 56

The Geochemistry and Geophysics of the Antarctic Mantle

Edited by A.P. Martin and W. van der Wal

This Memoir is the first dedicated to the Antarctic mantle. It is a cross-disciplinary reference work combining geochemistry and geophysics to characterize Antarctic mantle properties. Through observations and modelling the mantle structures, compositions and dynamics are characterized at regional and continental scales by subject experts.

The Memoir reviews all known occurrences of sub-continental mantle xenoliths in igneous rocks. These studies are presented by region as southern or northern Victoria Land, Marie Byrd Land, the Antarctic Peninsula, East Antarctica and the sub-Antarctic Islands. Sub-oceanic mantle in tectonically emplaced and abyssal settings is also considered where known. This is complemented by a continental-scale mantle xenolith overview, mantle characteristics from igneous rocks and a quantitative mantle fabric study. State-of-the-art, continental-scale geophysical overviews of the Antarctic mantle are presented ...continue reading online, link above.



ISBN: 978-1-78620-564-3

Publisher: GSL co-published with British Society for Geomorphology

October 2022

438 Pages Hardback

Prices

List: **£130**

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Other societies: **£78**

Buy online: www.geolsoc.org.uk/M0058

Memoir 58

The History of the Study of Landforms or the Development of Geomorphology: Volume 5: Geomorphology in the Second Half of the Twentieth Century

Edited by T.P. Burt, A.S. Goudie and H.A. Viles

This volume is the fifth in the definitive series, The History of the Study of Landforms or the Development of Geomorphology. Volume 1 (1964) dealt with contributions to the field up to 1890, Volume 2 (1973) with the concepts and contributions of William Morris Davis and Volume 3 (1991) covered historical and regional themes during the 'classic' period of geomorphology (1890-1950). Volume 4 (2008) concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965; by the end of this period, process-based studies had become dominant. Volume 5 builds on this platform, covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century... continue reading online, link above.

Special Publication 516

Recent Advances in Understanding Gold Deposits: from Orogeny to Alluvium

Edited by T. Torvela, R.J. Chapman, J. Lambert-Smith

Gold occurs in many settings, but the dynamic nature of Earth's crust means overlapping and overprinting deposit styles are common. Characterization of mineralization from an early stage becomes important, particularly where the mineralization is complex, in order to maximize exploration and project development success and mining productivity. Various techniques are used at different stages of a project to characterize gold deposits. This Special Publication offers a cross-section of some specific techniques used to investigate a variety of gold deposit types. The papers highlight both the breadth of the available techniques and their utility in deposit characterization, but also the many significant remaining questions and problems related to the exploration and research of gold deposits. Several papers include suggestions of avenues for fruitful further research, including a paper discussing a new approach to classifying orogenic gold deposits, and a paper describing archaeological applications of natural gold analyses.



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Publisher: The Geological Society
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320 Pages Hardback

Prices

List: **£120**

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Other societies: **£72**

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Special Publication 495

Cross Border Themes in Petroleum Geology II: Atlantic Margin and Barents Sea

Edited by D. Chiarella, S. Patrino, H. Kombrink, C.A.-L. Jackson, J.A. Howell, S.G. Archer

A cross-border approach to exploration, appraisal and development is important in mature areas, such as the Atlantic Margin, and in frontier areas, such as the Barents Sea. An approach of this nature emphasizes the need to see the basin as one geological entity to maximize economic recovery and prepare the area for the energy transition. This volume offers an up-to-date, 'geology-without-borders' view of the stratigraphy, sedimentology and tectonics trends in these areas. It also looks at the challenges associated with differences in data continuity and nomenclature across median lines. A companion volume (SP494), Cross-Border Themes in Petroleum Geology I: The North Sea, provides a similar cross-border analysis for the North Sea Basin across the offshore boundaries of Germany, the Netherlands, Norway and the UK. Cross-Border Themes in Petroleum Geology II: Atlantic Margin...continue reading online, link above.

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Other societies: **£90**
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Special Publication 505

From Continental Shelf to Slope: Mapping the Oceanic Realm

Edited by K. Asch, H. Kitazato, H. Vallius

This volume covers multi-disciplinary Research and Development contributions from Europe, Asia and North America on geology, geophysics, bathymetric and biological aspects, towards data sampling, acquisition, data analysis and its results, and innovative ways of data access. It also presents the development of processes to map, harmonize and integrate marine data across EEZ boundaries, an impressive example of which is the European EMODnet (European Marine Observation and Data network) initiative. EMODnet assembles scattered and partially hidden marine data into continentally harmonized geospatial data products for public benefit and increasingly within overseas collaboration. The volume also aims to shed light on an evaluation of biological and mineral resources and environmental assessments at continental shelf to slope depths. Western Pacific examples provide excellent case studies for this topic. Mapping of the ocean realm is not only for scientific purposes, but also for the people who live by the seas...continue reading online, link above.



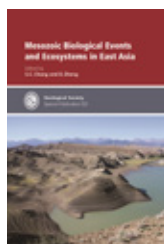
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June 2022
615 Pages Hardback
Prices
List: **£160**
Fellows' price: **£80**
Other societies: **£96**
Buy online: www.geolsoc.org.uk/SP485

Special Publication 485

The Great Ordovician Biodiversification Event: Insights from the Tafilalt Biota, Morocco

Edited by: A.W. Hunter, J.J. Álvaro, B. Lefebvre, P. Van Roy, S. Zamora

About 40 million years after the Cambrian Explosion, the Great Ordovician Biodiversification Event (GOBE) represents a second and dramatic burst in marine biodiversity, with major changes in the structure of ecosystems and the progressive replacement of the distinctive Cambrian Evolutionary Fauna by the Paleozoic Evolutionary Fauna. However, the GOBE is not a single, worldwide, short-term event, but rather the complex sum of successive diversifications occurring in distinct taxonomic groups, trophic guilds and regions. This book focuses on the Late Ordovician Tafilalt Biota, Anti-Atlas Morocco, which provides a snapshot of the GOBE in high-latitude regions of the Southern Hemisphere. A series of contributions explore different aspects of the Tafilalt Biota, including its geological setting, the international fossil trade in this area and a series of detailed systematic contributions describing many new taxa of marine invertebrates.... continue reading online, link above.



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248 Pages Hardback
Prices
List: **£90**
Fellows' price: **£45**
Other societies: **£54**
Buy online: www.geolsoc.org.uk/SP521

Special Publication 521

Mesozoic Biological Events and Ecosystems in East Asia

Edited by S-C. Chang and D. Zheng

Mesozoic Biological Events and Ecosystems in East Asia covers a wide range of topics, encompassing palaeoenvironments, palaeoecosystems and important vertebrate, invertebrate and plant fossils, some found in amber with excellent preservation of delicate morphological features. Fifty-three authors from a number of different disciplines – geochronology, palaeontology, stratigraphy, sedimentology, tectonics and geochemistry – contribute to the 18 articles in the volume. Well-preserved fossils and rocks continue to be found from marine and terrestrial sediments across East Asia. Over some years, the palaeontological and geological evidence discovered from this region has significantly improved our understanding of Mesozoic environments. In discussing feathered dinosaurs, primitive birds, early mammals, diverse insects, amber inclusions, the oldest-known flowers and research utilizing new, advanced methods, this volume explores Earth's history in even greater detail. What other exciting discoveries are waiting to be unveiled in the future?

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October 2020

256 pages Hardback

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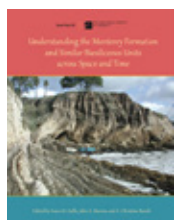
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STRATA: William Smith's Geological Maps

By Peter Wigley, Douglas Palmer, John Henry, Tom Sharpe, Jill Darrell, Diana Clements, John Mather, Dave Williams.
Foreword by Robert Macfarlane

This sumptuous and comprehensive evaluation showcases William Smith's 1815 hand-coloured map, A Delineation of the Strata of England and Wales, with part of Scotland, and illustrates the story of his career, from apprentice to fossil collector and from his 1799 geological map of Bath and table of strata to his detailed stratigraphical county maps.



ISBN: 978-0-81372-556-7

Publisher: GSA

September 2022

316 Pages Paperback

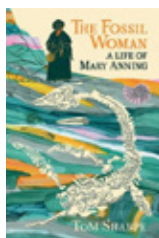
Price

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ISBN: 978-1-83847-350-1

Publisher: Dovecote Press

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240 pages Paperback

Prices

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ISBN: 978-1-78046-098-7

Publisher:

Dunedin Academic Press

April 2022

336 pages Hardback

Prices

List price: £40

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Understanding the Monterey Formation and Similar Biosiliceous Units across Space and Time

Editors: Ivano W. Aiello, John A. Barron, and A. Christina Ravelo

This volume presents a collection of recent studies on the Monterey and other similar biosiliceous deposits that offer modern and updated interpretations of this classic unit and its analogues. The volume is dedicated to the memory of Professor Bob Garrison.

The Fossil Woman: A Life of Mary Anning

By Tom Sharpe

Described as 'the greatest fossilist the world ever knew', a fully illustrated biography of Mary Anning is long overdue. Drawing on recent research into her life and times, yet always aware of her character and personality, Tom Sharpe has taken a fresh and often surprising look at the achievements of a woman who is finally gaining the recognition she merits.

The Lewisian: Britain's oldest rocks

By Graham Park

The first 2,500 million years of the geological history of Britain are stored in the gneisses of the Lewisian Complex of North West Scotland. This book explores the long journey of discovery in which this history has been gradually deciphered since the end of the 19th Century when these rocks were first investigated in detail.

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Geoenergy



3D reservoir simulation of CO₂ injection in a deep saline aquifer of the Lower Paleozoic Potsdam Sandstone of the St Lawrence Platform, Gently Block, Quebec

By Elena Konstantinovskaya, Jose A. Rivero, Valentina Vallega, John Brodylo and Peter Coldham

Increasing demand in carbon dioxide storage volumes to reduce greenhouse gas emissions to net zero by 2050 implies assessment of CO₂ storage capacity, including deep saline aquifers, even in tight sandstone reservoirs. 3D reservoir simulations of supercritical CO₂ injection were carried out in the Lower Paleozoic Potsdam Sandstone of the St Lawrence Platform (Gently Block), Quebec to predict safe CO₂ injection rates, evaluate reservoir pressure build-up in the presence of sealing and permeable faults, and estimate the gas injection cumulative.

Read more in the Lyell Collection www.lyellcollection.org/doi/10.1144/geoenergy2022-001



A new giant theropod dinosaur track from the Middle Jurassic of the Cleveland Basin, Yorkshire, UK

By John G. Hudson, Mike Romano, Dean R. Lomax, Rob Taylor and Marie Woods

A new specimen of a rare large theropod dinosaur print of Middle Jurassic age is described from the Long Nab Member of the Scalby Formation, Cleveland Basin, Yorkshire. This is only the sixth specimen of this type recorded from the Cleveland Basin since they were first discovered in 1934. The present specimen is included in the same, but slightly modified morphotype Bxviii as some of the previous ones, since it shows additional features including an elongated metapodium.

Read more in the Lyell Collection www.lyellcollection.org/doi/10.1144/pygs2022-008

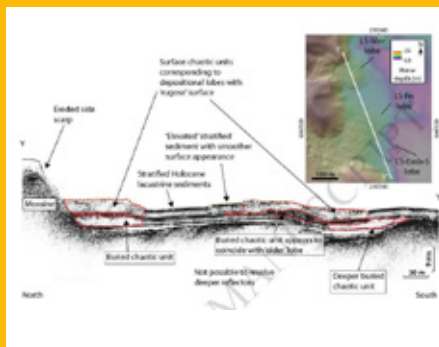


The Life of Mary Anning, Fossil Collector of Lyme Regis: a Contemporary Biographical Memoir by George Roberts

By Michael A. Taylor and Michael J. Benton

Despite the modern celebrity of the fossil collector Mary Anning (1799–1847) of Lyme Regis and her frequent use as an icon in scientific education and popularization, there are few accounts of her life by her contemporaries. We report here a previously unpublished anonymous manuscript memoir of Anning's life, in the Special Collections of the University of Bristol Library.

Read more in the Lyell Collection www.lyellcollection.org/doi/10.1144/jgs2022-053



Subaqueous landslides associated with historic road improvements in steep glaciated terrain, Loch Lomond, western Scotland

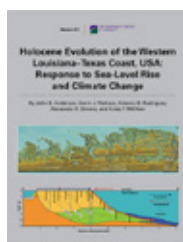
By Andrew Finlayson, Nikhil Nedumpallile-Vasu, Gareth Carter, Nicola Dakin, and Rhys Cooper

Shorelines in steep glaciated terrain are focal points for development and can provide important natural corridors for transport (e.g., road, rail). However, the steep subaqueous slopes at nearshore sites present challenging ground conditions, and only in recent decades has the acquisition of continuous high-resolution bathymetric datasets become available to inform investigations. This study investigates a site in Loch Lomond, Scotland, where a reported displacement of 15,000 m³ of rock fill occurred prior to completion and stabilization of an embankment for the A82 road, during improvement work undertaken in the 1980s.

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Buy online: www.geolsoc.org.uk/UMWR221

Holocene Evolution of the Western Louisiana-Texas Coast, USA: Response to Sea-Level Rise and Climate Change

Authors: John B. Anderson, Davin J. Wallace, Antonio B. Rodriguez, Alexander R. Simms, and Kristy T. Milliken

Global sea-level rise increased during the twentieth century from 1.5 to 3.0 mm/yr and is expected to at least double over the next few decades. The Western Louisiana and Texas coast is especially vulnerable to sea-level rise due to low gradients, high subsidence, and depleted sediment supply. This Memoir describes the regional response of coastal environments to variable rates of sea-level rise and sediment supply during Holocene to modern time. It is based on results from more than six decades of research focused on coastal and nearshore stratigraphic records. The results are a wake-up call for those who underestimate the potential magnitude of coastal change over decadal to centennial time scales, with dramatic changes caused by accelerated sea-level rise and diminished sediment supply.



ISBN: 978-0-81372-557-4

Publisher: GSA

June 2022

600 pages Paperback

Prices

List price: **£73**

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Buy online: www.geolsoc.org.uk/USPE557

From the Guajira Desert to the Apennines (Walter Alvarez)

Editors: Christian Koeberl, Philippe Claeys, and Alessandro Montanari

This volume pays tribute to the great career and extensive and varied scientific accomplishments of Walter Alvarez, on the occasion of his 80th birthday in 2020, with a series of papers related to the many topics he covered in the past 60 years: Tectonics of microplates, structural geology, paleomagnetism, Apennine sedimentary sequences, geoarchaeology and Roman volcanics, Big History, and most famously the discovery of evidence for a large asteroidal impact event at the Cretaceous-Tertiary (now Cretaceous-Paleogene) boundary site in Gubbio, Italy, 40 years ago, which started a debate about the connection between meteorite impact and mass extinction. The manuscripts in this Special Paper were written by many of Walter's close collaborators and friends, who have worked with him over the years and participated in many projects he carried out. The papers highlight specific aspects of the research and/or provide a summary of the current advances in the field.



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May 2022

436 pages Paperback

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List price: **£61.50**

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Buy online: www.geolsoc.org.uk/USPE554

New Developments in the Appalachian-Caledonian-Variscan Orogen

Editors: Yvette D. Kuiper, J. Brendan Murphy, R. Damian Nance, Robin A. Strachan, and Margaret D. Thompson

New analytical and field techniques, as well as increased international communication and collaboration, have resulted in significant new geological discoveries within the Appalachian-Caledonian-Variscan orogen. Cross-Atlantic correlations are more tightly constrained and the database that helps us understand the origins of Gondwanan terranes continues to grow. Special Paper 554 provides a comprehensive overview of our current understanding of the evolution of this orogen. It takes the reader along a clockwise path around the North Atlantic Ocean from the U.S. and Canadian Appalachians, to the Caledonides of Spitsbergen, Scandinavia, Scotland and Ireland, and thence south to the Variscides of Morocco.



ISBN: 978-0-81372-555-0

Publisher: GSA

May 2022

412 pages Paperback

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List price: **£73**

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Buy online: www.geolsoc.org.uk/USPE555

Tectonic Evolution of the Sevier-Laramide Hinterland, Thrust Belt, Foreland and Post-Orogenic Slab Rollback (180-20 Ma)

Editors: John P. Craddock, David H. Malone, Brady Z. Foreman, and Alexandros Konstantinou

This Special Paper focuses on the evolution of the crust of the hinterland of the orogen during the orogenic cycle, and describes the evolution of the crust and basins at metamorphic core complexes. The volume includes a regional study of the Sevier-Laramide orogens in the Wyoming province, a regional seismic study, strain analysis of Sevier and Laramide deformation, and detrital zircon provenance from the Pacific Coast to the foreland between the Jurassic-Eocene.

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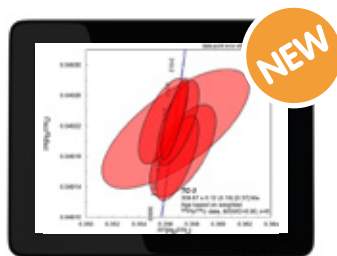


Special Publication 529
www.lyellcollection.org/toc/sp/529/1

Conservation Palaeobiology of Marine Ecosystems

Edited by R. Nawrot, S. Dominici, A. Tomašových and M. Zuschin

The accelerating pace of global change requires better understanding of the long-term resilience and adaptive capacities of marine ecosystems. This volume brings together studies that demonstrate how combining palaeoecological records with other types of geohistorical data informs biodiversity conservation and ecosystem management by providing data on baseline community states.



Special Publication 535
www.lyellcollection.org/toc/sp/535/1

Ice Ages, Climate Dynamics and Biotic Events: the Late Pennsylvanian World

Edited by S. G. Lucas, W. A. DiMichele, S. Opluštil and X. Wang

The Middle through Late Pennsylvanian was a time of ice ages, climate dynamics and a turning point in terrestrial biotic evolution. This provides a laboratory for studying changes in a glacial world. This book focuses on a dynamic Late Pennsylvanian world that bears close comparison to the late Cenozoic world.

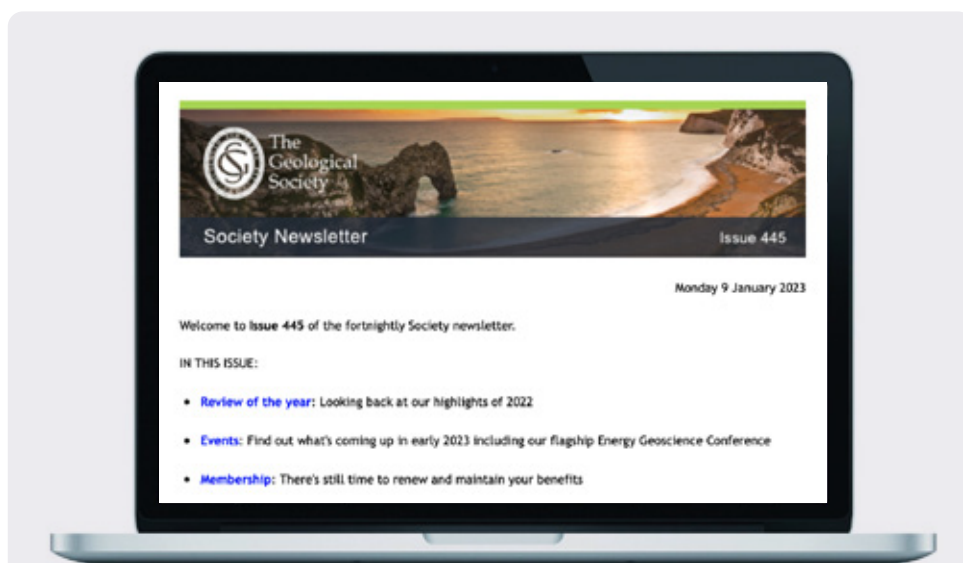


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