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## Engineering Geology Special Publication 29

### Geological Hazards in the UK: Their Occurrence, Monitoring and Mitigation

*Edited by D.P. Giles and J.S. Griffiths*

The UK is perhaps unique globally in that it presents the full spectrum of geological time, stratigraphy and associated lithologies within its boundaries. With this wide range of geological assemblages comes a wide range of geological hazards, whether they be geophysical (earthquakes, effects of volcanic eruptions, tsunamis, landslides), geotechnical (collapsible, compressible, liquefiable, shearing, swelling and shrinking soils), geochemical (dissolution, radon and methane gas hazards) or georesource related (coal, chalk and other mineral extraction). An awareness of these hazards and the risks that they pose is a key requirement of the engineering geologist.



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## Special Publication 498

### Cretaceous Climate Events and Short-Term Sea-Level Changes

*Edited by M. Wapreigh, M. B. Hart, B. Sames, I. O. Yilmaz*

Sea-level constitutes a critical planetary boundary for both geological processes and human life. Sea-level fluctuations during major greenhouse phases are still enigmatic and widely discussed in terms of changing climate systems. The geological record of the Cretaceous greenhouse period provides a deep-time view on greenhouse-phase Earth system processes that facilitates a much better understanding of the causes and consequences of global, geologically short-term, sea-level changes. In particular, Cretaceous hothouse periods can serve as a laboratory to better understand a near-future greenhouse Earth.



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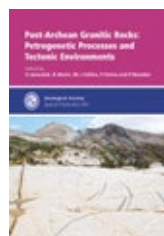


## Special Publication 476

### Passive Margins: Tectonics, Sedimentation and Magmatism

*Edited by K. R. McClay and J. A. Hammerstein*

This volume has evolved from papers written in memory of Professor David Roberts. They summarize the key findings of recent research on passive margins, from tectonics, bathymetry, stratigraphy and sedimentation, structural evolution and magmatism. Papers include analyses of the central and southern Atlantic margins of South America and Africa, papers on magmatism and extension in the NE Brazilian margin and on the Cote de Ivoire margin, rift architectures of the NW Red Sea margin, tectonics of the eastern Mediterranean margin, salt tectonics of passive margins of the Gulf of Mexico and Brazil, and papers on the NW Shelf margin of Australia. The volume provides readers with new insights into the complexities of passive margin systems that are in reality, not so passive.



**ISBN: 978-1-78620-448-6**  
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## Special Publication 491

### Post-Archean Granitic Rocks: Petrogenetic Processes and Tectonic Environments

*Edited by V. Janoušek, B. Bonin, W. J. Collins, F. Farina and P. Bowden*

Granites (sensu lato) represent the dominant rock-type forming the upper-middle continental crust but their origin remains a matter of long-standing controversy. The granites may result from fractionation of mantle-derived basaltic magmas, or partial melting of different crustal protoliths at contrasting P-T conditions, either water-fluxed or fluid-absent. Consequently, many different mechanisms have been proposed to explain the compositional variability of granites ranging from whole igneous suites down to mineral scale. This book presents an overview of the state of the art, and envisages future avenues towards a better understanding of granite petrogenesis.

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## Memoir 50

### Sweden: Lithotectonic framework, tectonic evolution and mineral resources

*Edited by M. B. Stephens and J. Bergman Weihed*

The solid rock mass of Sweden forms a natural field laboratory revealing insight into the westward growth and reworking of one of the planet's ancient continental nuclei. Three major geological units are exposed in different parts of the country: the western part of the Fennoscandian Shield, mainly sedimentary rocks deposited on this crystalline rock mass and the Caledonide orogen. This volume synthesizes the tectonic evolution of Sweden over more than 2500 million years from the Neoproterozoic to the Neogene. Following an introduction describing the lithotectonic framework of the country and the organization of the volume, the tectonic evolution is addressed essentially chronologically. Different phases of intracratonic rifting, accretionary orogeny, continent-continent collisional orogeny and platform sedimentation are identified.

## Special Publication 487

### Folding and Fracturing of Rocks: 50 Years of Research since the Seminal Text Book of J. G. Ramsay

*Edited by C.E. Bond and H.D. Lebit*

This Special Publication is a celebration of research into the Folding and Fracturing of Rocks to mark the 50th anniversary of the publication of the seminal textbook by J. G. Ramsay. Folding and Fracturing of Rocks summarised the key structural geology concepts of the time. Through his numerical and geometric focus John pioneered and provided solutions to understanding the processes leading to the folding and fracturing of rocks. His strong belief that numerical and geometric solutions, to understanding crustal processes, should be tested against field examples added weight and clarity to his work. The basic ideas and solutions presented in the text are as relevant now as they were 50 years ago, and this collection of papers celebrates John's contribution to structural geology.



ISBN: 978-1-78620-431-8

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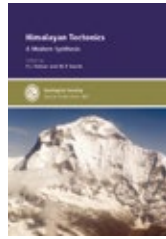
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### River to Reservoir: Geoscience to Engineering

*Edited by P. Corbett, A. Owen, A.J. Hartley, S. Pla Pueyo, D. Barreto, C. Hackney and S.J. Kape*

This volume brings together a number of papers from two workshops with the theme, 'Rain, Rivers, Reservoirs', which considered the dynamic changes to river systems as part of natural processes, particularly changing climatic conditions. Bringing researchers from two different locations to Brazil and the UK allowed scientists to contribute to and promote, 'debate on current research...on how the planet works and how we can live sustainably on it'. This volume features a series of papers on the geoscience of modern and ancient rivers from across the world (Brazil, United States, Spain, Argentina, Canada, India and the UK), their evolution through time, their management, their deposits and their engineering, with both subsurface aquifers/hydrocarbon reservoirs (of Carboniferous, Triassic and Cretaceous age) and surface reservoirs considered.

## Special Publication 483

### Himalayan Tectonics: A Modern Synthesis

*Edited by P.J. Treloar and M.P. Searle*

The Himalaya-Karakoram-Tibet mountain belt resulted from Cenozoic collision of India and Asia and is frequently used as the type example of a continental collision orogenic belt. The last quarter of a century has seen the publication of a remarkably detailed dataset relevant to the evolution of this belt. Detailed fieldwork backed up by state-of-the-art structural analysis, geochemistry, mineral chemistry, igneous and metamorphic petrology, isotope chemistry, sedimentology and geophysics produced a wide-ranging archive of data-rich scientific papers. The rationale for this book is to provide a coherent overview of these datasets in addressing the evolution of the mountain ranges we see today.





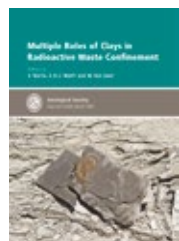
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## Special Publication 481

### Crustal Architecture and Evolution of the Himalaya-Karakoram-Tibet Orogen

*Edited by R. Sharma, I.M. Villa and S. Kumar*

This volume comprises 17 contributions that address the architecture and geodynamic evolution of the Himalaya-Karakoram-Tibet (HKT) system, covering wide aspects, from the active seismicity of the present day to the remnants of the Proterozoic orogen. The articles investigate the HKT system at different scales, blending field research with laboratory studies. The role of various lithospheric components and their inheritance in the geodynamic and magmatic evolution of the HKT system through time, and their links to global geological events, are studied in the field. The laboratory research focuses on the (sub-)micrometre scale, detailing micro-structural geology, crystal chemistry, geochronology, and the study of circulating fluids, their preservation (trapped in fluid inclusions) and their evolution, distribution, migration and interaction with the solid host. An orogen over 2000 km long can be understood only if the processes at the nanometre and micrometre scales are taken into account. The contributions in this volume successfully combine these scales to enhance our understanding of the HKT system.



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### Multiple Roles of Clays in Radioactive Waste Confinement

*Edited by S. Norris, E.A.C. Neef and 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.



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## 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: 978-1-78620-445-5**  
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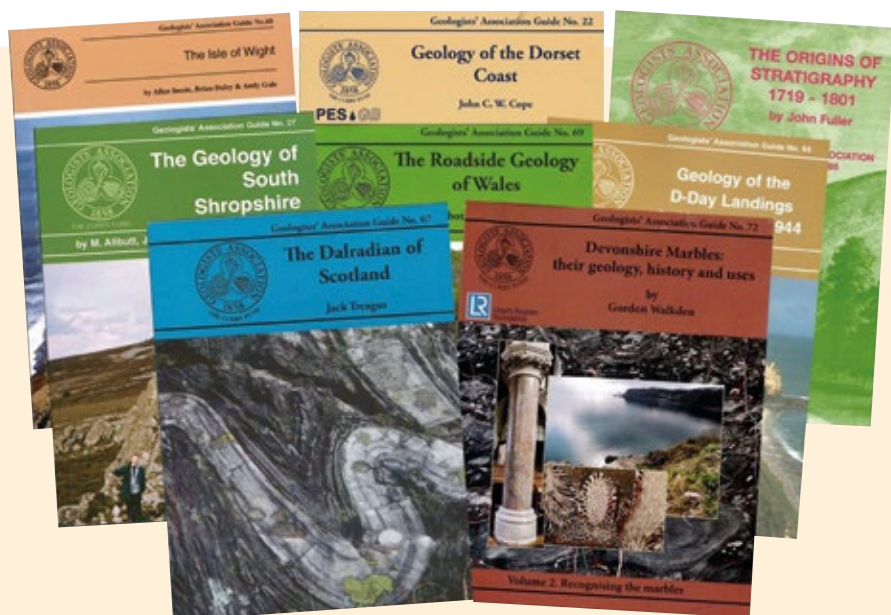
### Alkaline Rocks and Carbonatites of the World, Part 4: Antarctica, Asia and Europe (excluding the former USSR), Australasia and Oceanic Islands

*Edited 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. Similarly, the crucial economic dominance of rare earth production from carbonatite-related occurrences in China, has stimulated the world-wide hunt for similar deposits.

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By Malcolm Rider & Peter Harrison

The extraordinary and beautiful scenery of the Northern Scottish Highlands has been created by a geological history lasting over three billion years. The new and thoroughly up-dated edition of this popular book takes its readers through those three billion years, shows the rocks, visits the places, introduces some famous researchers and presents the geological theories that have been inspired by the Highlands.



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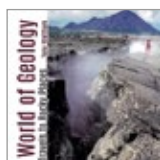
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## Breakthroughs in Geology: Ideas that transformed earth science

By Graham Park

Geological research does not flow steadily onwards by means of small incremental advances but can be better understood as a series of significant discoveries or changes in interpretation that transformed the way we understand the Earth. Each of these changes or new ideas encouraged a burst of activity as researchers attempted to apply them more widely in order to test their universality, and thereby their validity as a scientific theory.



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## World of Geology: Travels to Rocky Places

By Tony Waltham

A core component of the natural world is the geology, in the rocks and the landforms that have been created by their erosion. The plants that cover so much of the world's land areas, and the myriad animals that inhabit each environment, form the wonderful world of nature, but the backdrops to all of them are the landscapes that are the world of geology.



ISBN: 978-1-78603-872-2

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## The Rocking Book of Rocks: An illustrated guide to everything rocks, gems and minerals

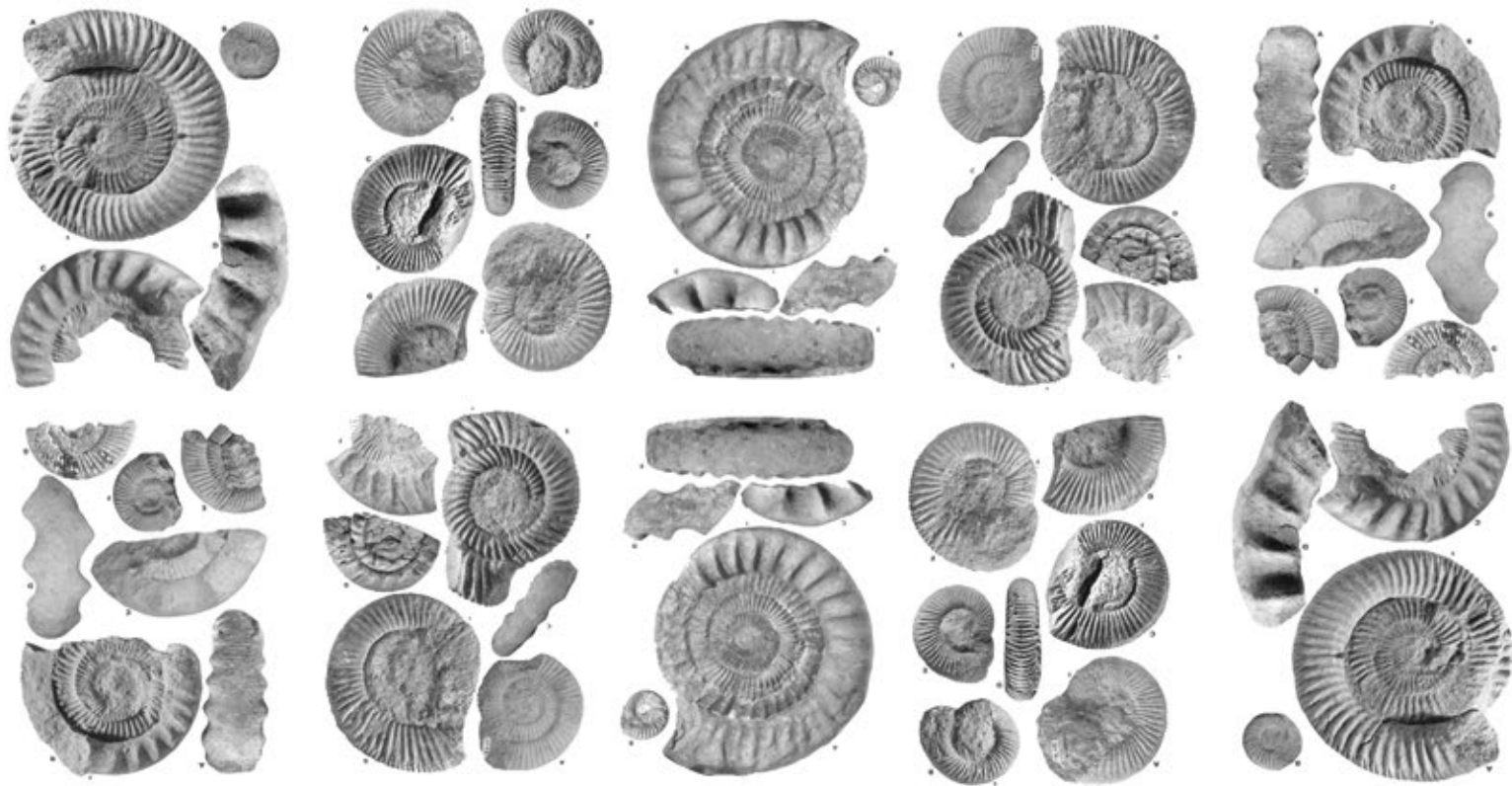
By Amy Ball and Florence Bullough.

Illustrated by Anna Alanko.

Learn everything you ever wanted to know about rocks and minerals in this stunning book. Discover space rocks, gemstones, metals, volcanoes, world wonders and more. With out-of-this-world artwork from Anna Alanko and expert content written by two geologists, this is the book all rock-crazy kids need.

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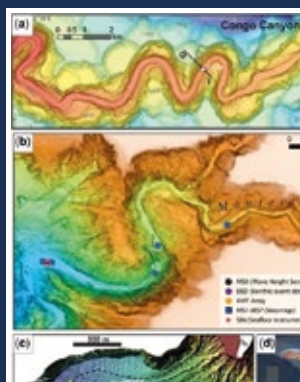
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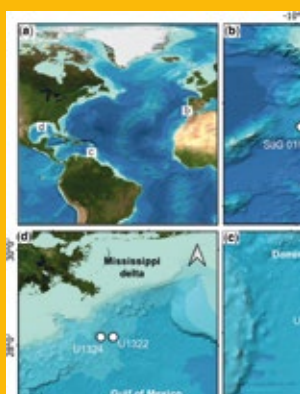


## Lessons learned from monitoring of turbidity currents and guidance for future platform designs

By Michael Clare, D. Gwyn Lintern, Kurt Rosenberger, John E. Hughes Clarke, Charles Paull, Roberto Gwiazda, Matthieu J. B. Cartigny, Peter J. Talling, Daniel Perera, Jingping Xu, Daniel Parsons, Ricardo Silva Jacinto and Ronan Aprioual

Turbidity currents transport globally significant volumes of sediment and organic carbon into the deep-sea and pose a hazard to critical infrastructure. Despite advances in technology, their powerful nature often damages expensive instruments placed in their path. These challenges mean that turbidity currents have only been measured in a few locations worldwide, in relatively shallow water depths ( $<2$  km). Here, we share lessons from recent field deployments about how to design the platforms on which instruments are deployed.

Read more in the Lyell Collection [sp.lyellcollection.org/content/early/2020/02/26/SP500-2019-173?cct=1599](http://sp.lyellcollection.org/content/early/2020/02/26/SP500-2019-173?cct=1599)

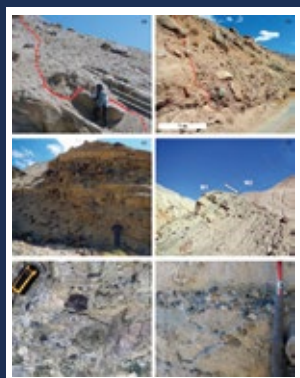


## From gravity cores to overpressure history: the importance of measured sediment physical properties in hydrogeological models

By Davide Mencaroni, Jaume Llopart, Roger Urgeles, Sara Lafuerza, Eulàlia Gràcia, Anne Le Friant and Morelia Urlaub

The development of overpressure in continental margins is typically evaluated with hydrogeological models. Such approaches are used to both identify fluid flow patterns and to evaluate the development of high pore pressures within layers with particular physical properties that may promote slope instability.

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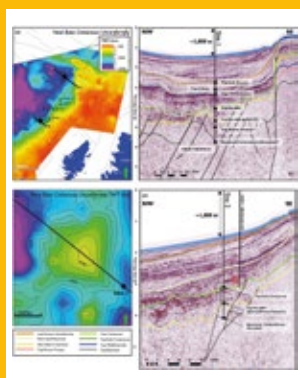


## Unroofing the Ladakh Batholith: constraints from autochthonous molasse of the Indus Basin, NW Himalaya

By Renjie Zhou, Jonathan C. Aitchison, Kapesa Lokho, Edward R. Sobel, Yuexing Feng and Jian-xin Zhao

The Indus Molasse records orogenic sedimentation associated with uplift and erosion of the southern margin of Asia in the course of ongoing India-Eurasia collision. Detailed field investigation clarifies the nature and extent of the depositional contact between this molasse and underlying basement units.

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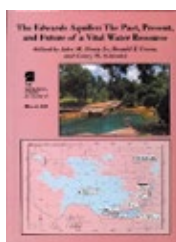
## UK Rockall prospectivity: re-awakening exploration in a frontier basin

By Lena Broadley, Nick Schofield, David Jolley, John Howell and John R. Underhill

The UK Rockall, located to the west of Scotland and the Hebrides, is a frontier petroleum bearing basin. Exploratory drilling in the basin took place over a quarter of a century (1980-2006), during which time a total of 12 wells were drilled, leading to the discovery of a single, sub-commercial gas accumulation. We argue that the basin, which has seen no drilling activity for more than a decade, has not been sufficiently tested by the existing well stock.

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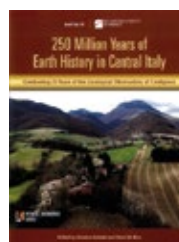
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## The Edwards Aquifer: The Past, Present, and Future of a Vital Water Resource

*Edited by John M. Sharp Jr., Ronald T. Green, and Geary M. Schindel*

The Edwards aquifer system is one of the great karstic aquifer systems of the world. It supplies water for more than 2 million people and for agricultural, municipal, industrial, and recreational uses. The Edwards (Balcones Fault Zone) Aquifer in the San Antonio, Texas, area was the first to be designated a sole source aquifer by the Environmental Protection Agency in 1975. The Edwards Aquifer also hosts unique groundwater, cave, and spring ecosystems.

This 27-chapter memoir reviews the current state of knowledge, current and emerging challenges to wise use of the aquifer system, and some of the technologies that must be adopted to address these challenges.



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## 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco

*Edited by Christian Koeberl and David M. Bice*

Central Italy has been a cradle of geology for centuries. For more than 100 years, studies at the Umbria and Marche Apennines have led to new ideas and a better understanding of the past, such as the Cretaceous-Paleogene (K-Pg) boundary event, or the events across the Eocene-Oligocene transition from a greenhouse to an icehouse world. The Umbria-Marche Apennines are entirely made of marine sedimentary rocks, representing a continuous record of the geotectonic evolution of an epeiric sea from the Early Triassic to the Pleistocene. The book includes reviews and original research works accomplished with the support of the Geological Observatory of Coldigioco, an independent research and educational center, which was founded in an abandoned medieval hamlet near Apiro in 1992.



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## Mudstone Diagenesis: Research Perspectives for Shale Hydrocarbon Reservoirs, Seals, and Source Rocks

*Edited by W Camp, K Milliken, K Taylor, N Fishman and P Hackley & J Macquaker*

This Memoir is an outgrowth of the joint SEPM-AAPG Mudstone Diagenesis Hedberg Research Conference held in Santa Fe, New Mexico (October 16-19, 2016). The purpose of the conference was to bring together leading experts from industry, academics, and government to present and discuss new research on the controls and impact of diagenesis on mudstone source rocks, reservoirs, and seals. This volume contains 13 highly illustrated peer-reviewed chapters representing the research presented during the Santa Fe Conference, and other solicited related contributions.



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## A Geologic Interpretation of the Chukchi Sea Petroleum Province: Offshore Alaska, USA

*By Thomas X. Homza and Steven C. Bergman*

In the interest of information sharing and knowledge retention, and to motivate future geoscience research, Shell Exploration and Production Company has released a wide-ranging, yet detailed volume that should serve as a landmark work for the U.S. Chukchi Sea petroleum province. Well-researched and nicely appointed with numerous figures, maps, and large-format plates, Homza and Bergman systematically describe the stratigraphic and structural evolution of this very complex and compelling region. The work is based on a wide variety of legacy and recently acquired data, the cornerstones of which are 2-D and 3-D seismic reflection data. These new data enable the refinement of previously published interpretations and the recognition of many formerly unreported elements.



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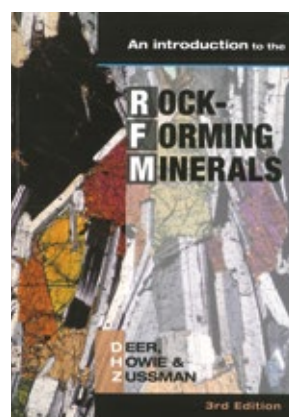
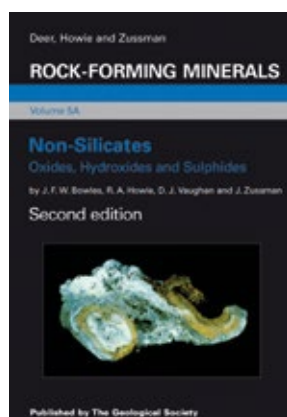
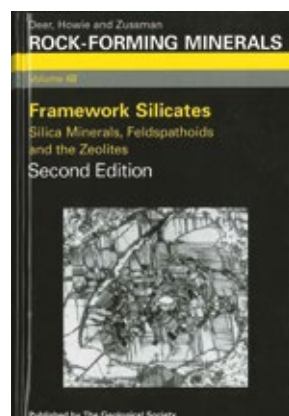
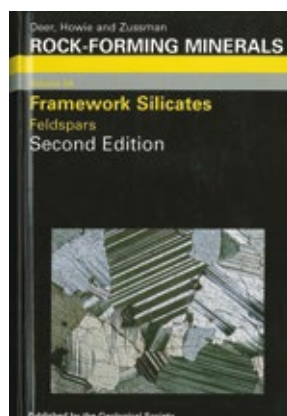
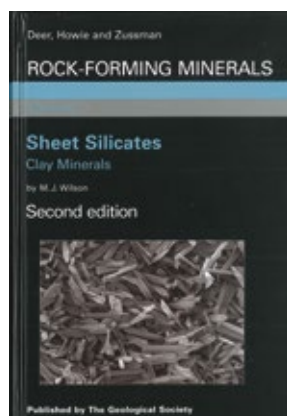
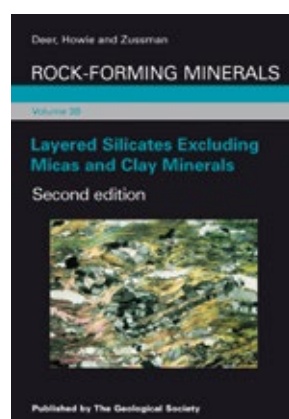
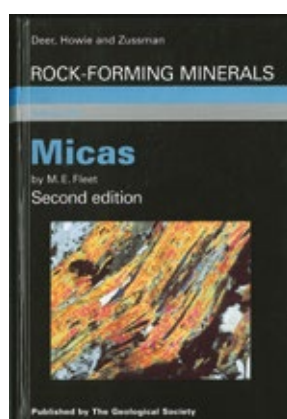
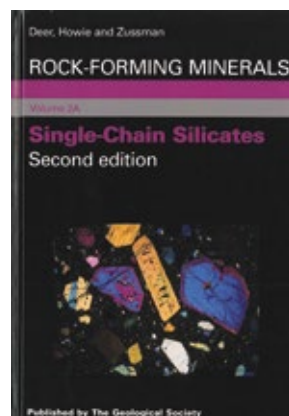
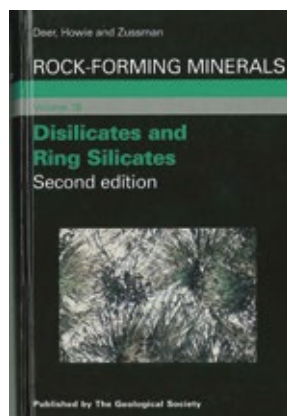
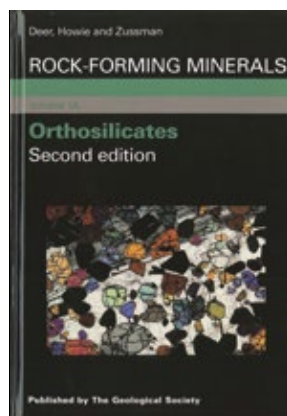
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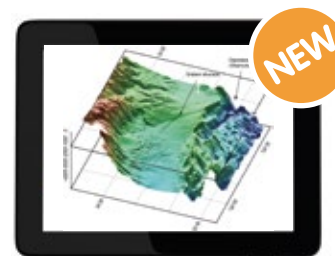


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