



## Petroleum Geology

- The Geological Society of London
- American Association of Petroleum Geologists

### Readership

- Petroleum geologists
- Petroleum engineers
- Geophysicists
- Academic geologists
- Petrophysicists

### Book titles 2011

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- Journal of Micropaleontology
- Petroleum Geoscience

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- Transactions of the Edinburgh society
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|   |               |   | QJEGH online + print    | £418        | £468         | \$936           |
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|   |               |   | JM online + print       | £193        | £193         | \$385           |

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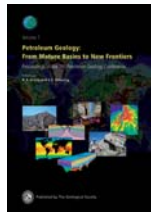
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## Petroleum Geology: From Mature Basins to New Frontiers - Proceedings of the 7th Petroleum Geology Conference

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

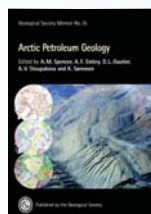
**Volume 1/Volume 2:** The *Proceedings of the 7th Petroleum Geology Conference* is the seventh in a series that has become a tradition known as the 'Barbican' conferences. They started life over 35 years ago, in 1974, with a focus solely on North-West Europe, and have a reputation, both from the conferences 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.

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### • **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.



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

*Edited by R. Hall, M. 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.

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- Online bookshop code: **SP348**

• **Special Publication 348**

**Hydrocarbons in Contractional 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.

**NEW**



- ISBN: 978-1-86239-316-5
- December 2010
- 368 pages
- Hardback
- Prices:  
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- Other qualifying societies: **£57.00/US\$114.00** (Cat no tbc)
- 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.

**NEW**



- ISBN: 978-1-86239-308-0
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- 512 pages
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- 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. Sosson, 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: 978-1-86239-292-2
- May 2010
- 424 pages • Hardback
- Prices:
- List: **£110.00/US\$220.00**
- GSL: **£55.00/US\$110.00**
- Other qualifying societies:
- £66.00/US\$132.00** (Cat no 1088)
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• Special Publication 329

**Mesozoic and Cenozoic Carbonate Systems of the Mediterranean and the Middle East: Stratigraphic and Diagenetic Reference Models**

*Edited by F. S. P. van Buchem, K. D. Gerdes and M. Esteban*

This volume contains a collection of stratigraphic and diagenetic case studies of Mesozoic and Cenozoic carbonate sequences from the Tethyan realm. High levels of industry and academic interest in the region have generated numerous multi-disciplinary studies of these sequences, a selection of which are presented in this volume. The studies presented are based on both comprehensive subsurface datasets from important hydrocarbon-bearing strata of the Middle East and the excellent surface exposures in the region of interest.

The studies presented in this volume may serve as suitable starting points in the development of age and architecture specific carbonate reference models. Such models can form the basis of internally consistent models for carbonate deposition, sequence development and reservoir performance. Ideally such models, suitably scaled, will be equally applicable to academic studies, the exploration and development phases of the field life cycle and in the prediction of future reservoir performance.



- ISBN: 978-1-86239-288-5
- February 2010
- 868 pages • Hardback
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- List: **£140.00/US\$280.00**
- GSL: **£70.00/US\$140.00**
- Other qualifying societies:
- £84.00/US\$168.00** (Cat no 1080)
- Online bookshop code: **SP328**

• Special Publication 328

**The Origin and Evolution of the Caribbean Plate**

*Edited by K. H. James, M. A. Lorente and J. L. Pindell*

This book discusses the current state of research on the geology of the area between North and South America, with a focus on the origin of the Caribbean Plate. Prevailing understanding is that the Caribbean Plate formed in the Pacific and migrated between the Americas. According to this model, the plate comprises oceanic and volcanic arc rocks. An alternative interpretation considers that the plate formed in place and includes extended continental crust. Hybrids of these ideas also exist. The papers in this volume provide regional overviews, discussions of the origins of the Caribbean Plate, and consider aspects of local geology arranged in a circum-Caribbean tour and ending in the plate interior. They address tectonics, igneous and metamorphic geology, stratigraphy and palaeontology. The objective of this wide variety of topics is to facilitate debate.



- ISBN: 978-1-86239-287-8
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• Special Publication 326

**Global Neoproterozoic Petroleum Systems: The Emerging Potential in North Africa**

*Edited by J. Craig, J. W. Thurow, B. Thusu, A. G. Whitham and Y. Abutarruma*

Worldwide, Neoproterozoic successions are major hydrocarbon producers. In North Africa, large basins with significant surface outcrops and thick sedimentary fills are widespread. These basins are now emerging as potential sources of hydrocarbons and are attracting interest both from geological researchers and the oil and gas industry.

This volume focuses on recent developments in the understanding and correlation of North African basin fills and explores novel approaches to prospecting for source and reservoir rocks. The papers cover aspects of petroleum prospectivity and age-equivalent global petroleum systems, Neoproterozoic tectonics and palaeogeography, sequence stratigraphy, glacial events and global climatic models, faunal and floral evolution and the deposition of early source rocks.

The broader aim is to compare with, and learn from, well-studied Neoproterozoic successions globally, including major environmental change, the emergence of life, the global carbon cycle and implications for hydrocarbon exploration.



- ISBN: 978-1-86239-279-3
- July 2009
- 368 pages • Hardback
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- List: **£80.00/US\$160.00**
- GSL: **£40.00/US\$80.00**
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- Online bookshop code: **SP319**

• Special Publication 319

**Sediment-Hosted Gas Hydrates: New Insights on Natural and Synthetic Systems**

*Edited by D. Long, M. A. Lovell, J. G. Rees and C. A. Rochelle*

There is much interest in gas hydrates in relation to their potential role as a major energy source and as an important driver of climate change; however, many questions remain, not least the size of the global hydrate budget. Much of the current uncertainty centres on how hydrates are physically stored in sediments at a range of scales. This volume details advances in our understanding of sediment-hosted hydrates, and contains papers covering a range of studies of real and artificial sediments containing both methane hydrates and CO<sub>2</sub> hydrates. The papers include an examination of the techniques used to locate, sample and characterize hydrates from natural, methane-rich systems, so as to understand them better. Other contributions consider the nature and stability of synthetic hydrates formed in the laboratory, which in turn improve our ability to make accurate predictive models.



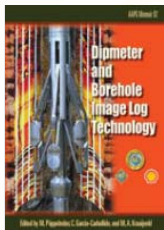
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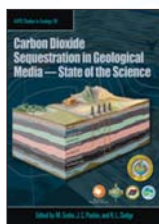
## Dipmeter and Borehole Image Log Technology

*Edited M. Pöppelreiter, C. García-Carballido, and M.A. Kraaijveld*

Borehole imaging is among the fastest and most accurate methods for collecting high resolution subsurface data. Recent breakthroughs in acquisition, tool design, and modeling software provide real-time subsurface images of incredible detail, from the drill bit straight to a workstation. Associated interpretation workflows offer the high level of detail that is needed to make operational decision and to increase the predictability of subsurface models.

Many exploration and production companies have acquired a wealth of dipmeter and image log data. The data are readily available and provide, for example the orientation of fractures and fluvial channels in space. Further applications of borehole imaging technology include matrix and fracture characterization, pore-type partitioning, geosteering, and in-situ stress determination. Exciting new applications are found in enhanced oil recovery, carbon dioxide sequestration, and geothermal projects. In addition, borehole image data are paramount to unlocking unconventional plays such as shale gas and coal-bed methane.

AAPG Memoir 92 portrays key applications of dipmeter and image log data across the exploration and production life cycle. It illustrates the value of integrating high-resolution dipmeter and borehole image data with seismic, well-log, and geological knowledge in order to construct integrated subsurface modes. It provides the fundamentals of the technology for novice and specialist geoscientists and petroleum engineers alike, as well as introducing state-of-the-art applications.



- ISBN: 978-0-89181-067-7
- March 2010
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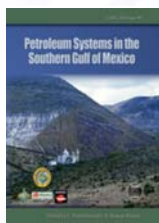
## Carbon Dioxide Sequestration in Geological Media: State of the Science

*Edited by M. Grobe, J.C. Pashin, and R.L. Dodge*

Over the past 20 years, the concept of storing or permanently storing carbon dioxide in geological media has gained increasing attention as part of the important technology option of carbon capture and storage within a portfolio of options aimed at reducing anthropogenic emissions of greenhouse gases to the earth's atmosphere.

Research programs focusing on the establishment of field demonstration projects are being implemented worldwide to investigate the safety, feasibility, and permanence of carbon dioxide geological sequestration.

AAPG Studies 59 presents a compilation of state of the science contributions from the international research community on the topic of carbon dioxide sequestration in geological media, also called geosequestration. This book is structured into eight parts, and, among other topics, provides an overview of the current status and challenges of the science, regional assessment studies of carbon dioxide geological sequestration potential, and a discussion of the economics and regulatory aspects of carbon dioxide sequestration.



- ISBN: 978-0-89181-371-2
- March 2010
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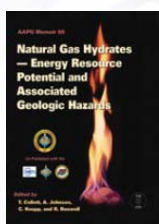
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*Edited by T. Collett, A. Johnson, C. Knapp and R. Boswell*

In September 2004, the American Association of Petroleum Geologists (AAPG) convened a Hedberg Research Conference in Vancouver, British Columbia, Canada titled "Natural Gas Hydrates: Energy Resource Potential and Associated Geologic Hazards."

As a continuation of the Hedberg Research Conference in Vancouver, the conveners of the conference and the editors of this Memoir have worked with more than 150 authors and coauthors to prepare this Memoir on gas hydrates. This publication follows the goals of the Hedberg conference; however, the contents of this Memoir were expanded to include all aspects of gas hydrates in nature. This Memoir contains 39 individual contributions, ranging from long topical summaries to shorter focused research papers.

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