The Sedimentary Record of Sea-Level Change

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This unique textbook describes how past changes in sea-level can be detected through analysis of the sedimentary record. In particular, it concentrates on the theory of sequence stratigraphy, which provides a framework for how entire sedimentary systems evolve through geological time. Sequence stratigraphy is a model for dividing the sedimentary record into discrete, genetically related packages on a range of length- and time-scales, where each package represents a cyclic change in sea-level and/or sediment supply. This technique is widely used to understand the genesis of the sedimentary record, to examine the global synchroneity of sedimentary cycles and in the exploration for hydrocarbon reserves.

Designed for undergraduate and graduate courses in sequence stratigraphy, as well as for professional courses within the petroleum industry, this textbook includes many features that will aid tutors and students alike, including:

- numerous full-colour figures and photographs throughout;
- detailed case studies demonstrating the applications of sequence stratigraphy;
- boxed summaries of supplementary and background information;
- bulleted questions and answers throughout the text;
- a supporting website http://publishing.cambridge.org/resources/0521831113 hosting sample pages, selected illustrations to download, and worked exercises.

Advance reviews of this textbook:

'The main body of this book constitutes a fine presentation of the principles of sequence stratigraphy and their application to clastic and carbonate examples. The use of the Book Cliffs as the main clastic example is an excellent choice. The authors clearly know this area well, and their descriptions and interpretation are well done; they take into account all of the various hypotheses and controversies that have arisen around these rocks. The writing is clear and straightforward and the illustrations are truly excellent.'

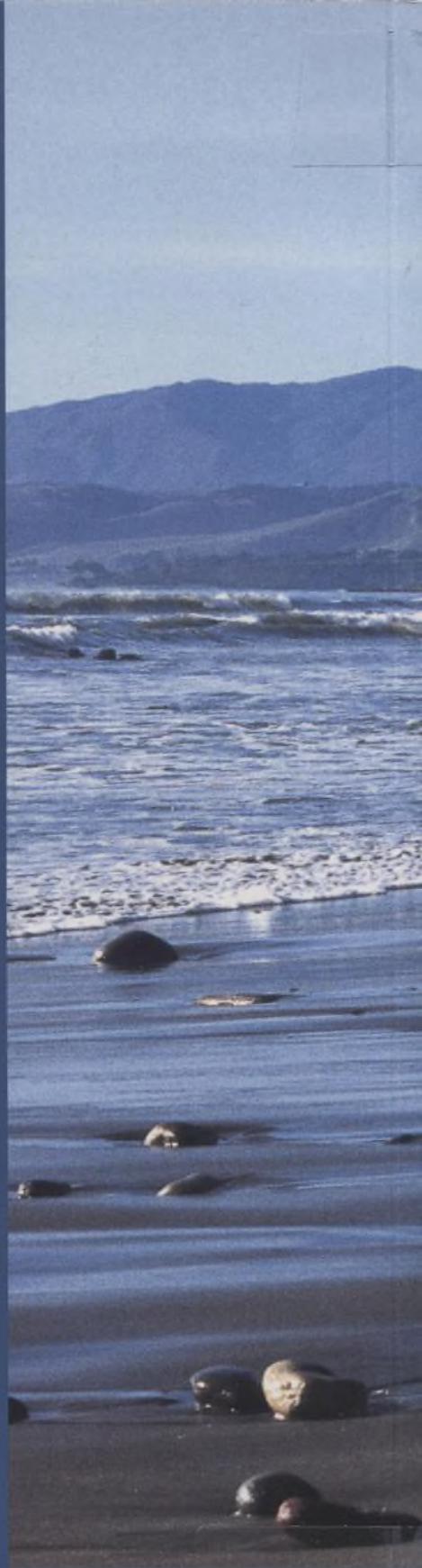
Professor Andrew Miall *University of Toronto, Canada*

'This textbook is simply without equal and there are no competing texts in this field. I have been amazed that it has taken so long for any textbook at the introductory level to give a complete and accurate treatment of sequence stratigraphy, and this text does it remarkably well. There is a clear need for a text such as this in any advanced undergraduate stratigraphy course. The text is logically laid out and the explanation of sequence-stratigraphic principles is perhaps the most lucid I have read anywhere.'

Dr Steven Holland *University of Georgia, Athens, USA*

'This book has a lot to commend it. The approach to the subject of sequence stratigraphy using well-documented case studies is excellent, and as such the book fills an important niche in the market. Even the areas where there is overlap with other books, this text is better than others: indeed, it is the best summary of the concepts of sequence stratigraphy I have ever read. It is also a very well-written text. The style is clear and consistent throughout, a tribute to some very high quality editing of a multi-author book. Furthermore, the illustrations, both line drawings and photographs, are of extremely high quality, and they very effectively complement the text.'

Dr Gary Nichols *Royal Holloway University of London, UK*



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www.cambridge.org
ISBN 0-521-538
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