A. D. Miall

The Geology of Fluvial Deposits

Andrew Miall was born in Brighton, England, and was educated there, obtaining a B. Sc. degree at the University of London in 1965. He then emigrated to Canada, and completed his Ph.D. at the University of Ottawa in 1969. He worked in and around the petroleum industry in Calgary for the next 10 years, including a 7-year term as a Research Scientist with the Geological Survey of Canada, working on regional basin studies in the Canadian Arctic Islands. While in Calgary he conceived and chaired the First International Symposium on Fluvial Sedimentology in 1977, an event that is now held every 4 years. Andrew Miall moved to the University of Toronto in 1979, where he is now Professor of Geology. His research in the areas of fluvial sedimentology and sequence stratigraphy is widely used, and he has held distinguished lectureships or fellowships in Canada, the United States, Britain, Poland, South Africa, China, Japan and Australia. The second edition of his book "Principles of Sedimentary Basin Analysis" was published by Springer in 1990. He was awarded a D.Sc. degree by the University of London in 1992, and was elected a Fellow of the Royal Society of Canada in 1995.

The Geology of Fluvial Deposits represents the first published synthesis of research on the sedimentary geology of fluvial deposits. It sets out in detail the methods for the field and subsurface study of these sediments, and provides geologists with detailed descriptions of the building blocks of fluvial stratigraphic units, from lithofacies through architectural elements and depositional systems to large-scale stratigraphic sequences and basin-fill complexes. This book also examines at length autogenic sedimentary controls and discusses the tectonic and climatic controls of fluvial sedimentation and the effects of base level change on sequence architecture. The book contains a new classification of oil and gas fields in fluvial reservoirs, with descriptions of selected case examples. Profusely illustrated and with an extensive reference to the recent literature this textbook will be welcomed by the student and professional geologist alike.

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