

## CURRENT BIBLIOGRAPHY

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#### G. A. C. Publishes Unique Volume on Atlantic Province

A collection of 14 papers on the Geology of the Atlantic Region of Canada has been published as Special Volume 4 by the Geological Association of Canada. The volume is dedicated to the memory of Hugh Lilly, a Newfoundland geologist who died in an accident immediately following the Association's annual meeting in Halifax, September, 1966. The first collection of papers of its kind, it will be of interest to mining and oil company geologists as well as to those interested in academic aspects of Appalachian geology. The volume includes both detailed accounts of original research and comprehensive review papers on structural geology, oceanography, stratigraphy, petrology, paleontology and economic geology.

The opening paper, by W. H. Poole of the Geological Survey of Canada, sets the stage for those that follow by summarizing the tectonic evolution of the entire Canadian Appalachian region. Major tectonic elements are defined and broad correlations are proposed which convey a new and somewhat controversial picture of Appalachian geology. The next two papers deal with oceanography; one by K. O. Emery of Woods Hole summarizes recent data on the Atlantic continental margin between Nova Scotia and Bahama Banks, the other, by L. H. King of the Bedford Institute, describes a detailed study of the stratigraphy of the Scotian Shelf.

Six papers that pertain to the geology of Newfoundland range in content from a full account of all Silurian rocks of the Island by H. Williams, the first such review for over 20 years, to a detailed petrological and chemical study of the economically important Whalesback lavas of the Springdale area by V. S. Papezik of Memorial University. Also included are an account by E. R. W. Neale and M. J. Kennedy of the Fleur de Lys schists of northern Newfoundland which bear some resemblance to the Dalradian and Moine sequences of Scotland and Ireland, a description of the mineral deposits of the recently reactivated Halls Bay mining area by Heward Peters of Brinex, and a structural study of the Ordovician Baie d'Espoir Group of south central Newfoundland by F. D. Anderson.

A thoughtful review of Carboniferous stratigraphy of the Atlantic region by D. G. Kelley draws attention to the many different subdivisions of Carboniferous rocks which have been proposed in recent years as emphasis has changed from a time-stratigraphic to a rock-stratigraphic basis. This is followed by two papers which contain new ideas on the subdivision of the Lower Carboniferous Windsor Group in Nova Scotia. Another paper, by M. S. Barss and P. A. Hacquebard, describes the Upper Carboniferous to Lower Permian Pictou Group and shows how widely separated sections can be correlated by miospore zones.

The final paper, by R. D. Howie and L. M. Cumming, deals with a pre-Carboniferous, graben-like structure off the east coast of New Brunswick.

The volume was edited by E. R. W. Neale and H. Williams. The Hugh Lilly Memorial Volume (Sp. Paper 4, 292 p.) is available for \$6.00 from the Geological Association of Canada, c/o Dept. of Geology, University of Waterloo, Waterloo, Ontario.