

Sedimentary Rock Studies at Memorial University of Newfoundland

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Three members of the staff of M.U.N.'s Department of Geology are interested in "Soft Rock" geology: Dr. R.D. HUGHES's interests are aroused wherever fossils occur; H.D. LILLY is involved not only in extensive work on the stratigraphy and structure of West Newfoundland, but also in sea floor studies as deep as Scuba Diving permits; and the writer is mainly concerned with the geology of the Avalon Peninsula.

In general, the aspects of regional geology are still much in the foreground of our work; the stratigraphy and structure of the areas concerned have evidently to be determined first, before more specialized studies can be undertaken. Fairly detailed mapping is, therefore, the prerequisite for any progress.

Several of our M.Sc. candidates have contributed, or are contributing, towards the solution of sedimentary problems in Newfoundland. On West Newfoundland geology, two theses were so far written (and published): J.W. MCKILLOP - "Geology of the Corner Brook Area, Newfoundland, with emphasis on the Carbonate Deposits", M.U.N. Geology Report No. 1, 1963; and H.D. LILLY - "Geology of Hughes Brook - Goose Arm Area, West Newfoundland", M.U.N. Geology Report No. 2, 1963. At present, R.K. STEVENS is working out a detailed account on the stratigraphy and structure of the Humber Arm area (Bay of Islands) between Middle Arm and Corner Brook. We hope that he may solve the question of whether or not there exists a large "Taconic Klippe" in West Newfoundland (as postulated by Rodgers and Neale).

While the three studies just mentioned are essentially concerned with the Cambro-Ordovician rocks in the central portion of Newfoundland's west coast, J. UTTING is studying Carboniferous sequences in the Codroy Valley area farther south. His special aim is to isolate and study spores.

On the Avalon Peninsula, B. GREENE completed a thesis on the stratigraphy and structure of the Cambrian rocks in the Branch-Point Lance Area (west of St. Mary's Bay), and J.M. DAWSON worked in the area south of Topsail-Foxtrap on the southeast side of Conception Bay; while he was primarily concerned with the Harbour Main volcanics and the Holyrood intrusive complex, he also established the interrelationships of these igneous rocks with the sediments of the Conception group in his area. It is hoped to publish these two theses in the near future as M.U.N. Geology Reports (Nos. 3 and 4).

This year A.C. NAUTIYAL will begin work on the Upper Cambrian-Lower Ordovician sequence in the southeast of Conception Bay, essentially on Bell Island. Further studies are planned on the Conception group and lower Cabot group in the area of Cape Race.

The GEOLOGICAL SURVEY OF CANADA Paper 65-1, Report of Activities published in 1965 describes the following current projects:

ANDERSON, F.D., and WILLIAMS, H., Gander Lake West Half (2 D W1/2) Map-Area, p. 129

BENSON, D.G., Nova Scotia: Merigomish (11 E/9) Map-Area, p. 125

BLACKADAR, R.G., Reconnaissance mapping, southwestern Baffin Island, p. 2

BOLTON, T.E., Stratigraphy of Anticosti Island, p. 113

CUMMING, L.M., Biostratigraphic studies, Port au Port Area, p. 132

DINELEY, D.L., Silurian-Devonian vertebrate palaeontology and stratigraphy, Nova Scotia, Quebec, and Alberta, p. 140 - 141

GILLIS, J.W., Port aux Basques (11 0) Map-Area, p. 133 - 135

GROSS, G.A., Geology of Iron ore deposits and iron-formations of Canada, p. 142-143

JENNESS, S.E., 1964, Report of activities: Geol. Surv. Canada Paper 65-1

KELLEY, D.G., Cobequid mountains, p. 125-127

LEGAULT, J.A., Condonts of the Stonehouse Formation at Arisaig, p. 127

LIBERTY, B.A., Palaeozoic mapping in the Kingston district, p. 107

WILLIAMS, H., Geological reconnaissance, Wesleyville (2 F) Map-area, p. 137

The July issue of MARITIME SEDIMENTS will feature an article by W.D. POOLE on the Investigations of the Appalachian Section of the GEOLOGICAL SURVEY OF CANADA.