

Ancient Sediment Studies

Daniel J. Stanley

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[See table of contents](#)

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ANCIENT SEDIMENT STUDIES

Staff of the Geology Department of L'UNIVERSITÉ DE MONTRÉAL are active in the Northern Appalachians. J. LAJOIE is currently working on some Silurian terrigenous sequences in the Quebec Appalachians. The project consists of paleocurrent analysis of primary sedimentary structures, granulometry, and heavy mineral suites.. It is interesting that the field work parallels a theoretical study on the formation and distribution of tabular cross-bedding that will be carried out at the university's sedimentation laboratory.

J. BELAND continues his interest in the tectonics of the Northern Appalachians. He is joining P.J. LESPÉRANCE and J. LAJOIE in a study of the facies distribution and paleogeography of the Silurian in parts of the Québec Appalachians. A portion of this work has been integrated in a forthcoming joint paper on the Lower Llandovery of the Northern Appalachians (as reported in MARITIME SEDIMENTS, v.1, no. 1)

Last summer in Newfoundland, W.D. BRUECKNER supervised graduate student mapping in the Codroy and Corner Brook regions. M. TUKE, a graduate student of D.M. BAIRD, OTTAWA UNIVERSITY, completed a two year mapping project of Paleozoic rocks and structure of the northern tip of the Great Northern Peninsula.

EDWARD S. BELT of VILLANOVA UNIVERSITY, Pennsylvania, is studying Carboniferous rocks in Newfoundland. BELT states that last summer's field work enabled him to visit most of the pertinent outcrops important for determining the sedimentational and tectonic history of the Carboniferous basin(s) of deposition. Much of this work was concentrated on the Deer Lake and Stephenville regions.

LEWIS M. CLINE of the UNIVERSITY OF WISCONSIN visited L.M. CUMMING of the GEOLOGICAL SURVEY OF CANADA at certain key areas of Newfoundland last summer. Their main interest is in the sedimentary features of the Cow Head Breccia between Port au Port Bay and Daniels Harbour.

L.M. CUMMING carried out a biostratigraphic study of the Lower Paleozoic strata, mainly in the region of the Port au Port Peninsula. J.W. GILLIS, also of the GEOLOGICAL SURVEY OF CANADA, completed mapping of the four mile Port aux Basques (Cape Anguille) area of Newfoundland.

ERIC W. MOUNTJOY reports on completed or current Ph.D. research at the Department of Geological Sciences MCGILL UNIVERSITY:

LAJOIE, J., 1963, The Siluro-Devonian stratigraphy of the Mata-pedia-Temiscouata area (Quebec).

LESPÉRANCE, P.J., 1960, The Silurian and Devonian rocks of the Temiscouata region, Quebec.

HUBERT, C., The stratigraphy of the Quebec Complex, L'Islet Kamou-raska area, Quebec (in progress).

DR. EAKINS and students are studying the structure of the Eastern Townships, southern Quebec.

CHARLES J. CAZEAU reports on the activities of the Department of Geological Sciences at the STATE UNIVERSITY OF NEW YORK AT BUFFALO: JOHN OPERA has completed a Master's thesis entitled "Sedimentary petrology of the Silurian Grimsby - Thorold sandstones, western New York and southern Ontario. The Grimsby was the source for the overlying Thorold as demonstrated by comparison of sedimentary parameters and heavy minerals. Details of energy conditions during deposition are inferred from the data.

GEORGE ALLGAIER is studying the insoluble residue of the Silurian Reynales and Irondequoit limestones in western New York as a Master's problem.

WILLIAM MILLER is also involved in a Master's problem on the conglomerates within the Cattaraugus Formation (Devonian) of southwestern New York. His investigation includes mechanical analysis, pebble lithologies, heavy minerals, and primary sedimentary structures.

P.J. LESPÉRANCE of L'UNIVERSITÉ DE MONTRÉAL is concentrating his efforts on the Middle Ordovician to Lower Devonian trilobites, with attendant stratigraphic problems, of the Northern Appalachians. This work is sponsored in part by the NATIONAL RESEARCH COUNCIL OF CANADA. Results of this work are to be published soon.

C.W. STEARN of the Department of Geological Sciences, MCGILL UNIVERSITY, and students are working on stromatoporoids from northern and western Canada.