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Aller au sommaire du numéro

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RESEARCH COMPILATION: ANCIENT SEDIMENTS

Research on Pre-Pleistocene Sedimentary Rocks in the Atlantic Provinces and Adjacent Areas: Current and Recently Completed Work

BRENDA P. LAMING

Fredericton, N.B.

This compilation deals with current research activity on pre-Pleistocene sedimentary rocks of the region, listing all work, of any kind, that has been reported to the editors of MARITIME SEDIMENTS. most of the listings have been made up from questionnaires answered during February and March, 1966. Other items, marked with an asterisk (*) in the main list, are those for which no questionnaire was returned: information for these was derived from previous issues of MARITIME SEDIMENTS and from the G.S.C. Report of Activities, May to October, 1965 (Geological Survey of Canada Paper 66-1, Ed. S.E. JENNESS, 1966); these items are therefore less up-to-date. Institutions are listed on p 99.

Research worker(s), institution(s) and status of research are shown for each full listing in the main list. Where news or a report of the work has appeared in Maritime Sediments previously, reference is made on the right hand side (citation of volume, number and page); if from the G.S.C. Report of Activities, page reference (66-1 p---) is made instead.

Status of Research

Letter at left margin indicates status reported by questionnaire respondent.

rs	recently started
a	active
nc	nearly complete
rc	recently completed
s	suspended, will be completed later

ABBOTT, D., & D. BARNETT NB R.P.C. In this issue

a Mineralogical research on shale (Carboniferous) in N.B.

ANDERSON, F.D. G.S.C. (66-1 p 176)

Structural studies of the Bay D'Espoir Group, Nfld. (Ordovician)

BARNETT, D. Carboniferous shale in N.B. see ABBOTT

BÉLAND, J. Appalachians, Québec: see LAJOIE

BELT, E.S. Amherst Coll

(a) Carboniferous continental sedimentation, Atlantic Provinces, a

rc general study. 1-ii 14

nc (b) Stratigraphy and paleogeography of middle Carboniferous facies, Nfld.

a (c) Hypotheses for the origin of the Carboniferous Fundy Basin, N.B., N.S., and P.E.I.

BENSON, D.G. G.S.C. (66-1 p 170)

Merigomish, E half and Malignant Cove map-areas, N.S. (Ordovician to Carboniferous)

BERRY, J.R.M. McGill

nc Paleoecology and taxonomy of stromatoporoids in Black River (Ordovician) rocks, Que. Work is being carried out on an assemblage of stromatoporoids from the Black River Group exposed in the Ouareau River, 40 miles NE of Montreal. Measurements of some twelve parameters have been made on about 200 individuals and are being statistically analysed to determine the paleoecology and taxonomy of what has so far been called Stromatocerium rugosum.

BOLTON, T.E. G.S.C.

a Ordovician and Silurian Biostratigraphy of Anticosti I., Que.

BOUCOT, A.J. Cal Tech, J.F. DEWEY Cambridge, D.L. DINELEY & W.K. FYSON Ottawa, C.F. HICKOX Colby Coll, W.S. McKERROW & A.M. ZIEGLER Oxford 1-i 11

a The Geology of the Arisaig Area, Antigonish County, N.S. (Silurian, Devonian)

BROWN, R.L., H. HELMSTAEDT, D.T.C. LEE, A. DE CARLE U.N.B. 2-i 33

Structural studies, Precambrian and Silurian, south shore of N.B.

a Stratigraphic, structural and metamorphic studies of Coldbrook (PC) and Mascarene (Sil) Groups, Beaver Harbour and Letang areas, Charlotte Co., N.B. See also SMITH, J.C.

CAMPBELL, F. Meguma Group, N.S.: see SCHENK

CHURCH, W.R. W Ontario 1-iii 9

The structural history of the White Bay South and Green Bay districts

* of NE Nfld. (Proterozoic).

CLIFTON, H.E. U.S.G.S. (California) 1-iv 16

The origin of the Pembroke Breccia in central N.S., and stratigraphy

* of the Windsor Group (Mississippian) in the Minas Basin.

COPELAND, M.J. G.S.C.

(a) Ordovician and Silurian Ostracoda, Anticosti I., Que. Collections

a from Upper Ordovician, Lower and Middle Silurian for determination of the stratigraphic zonation of their contained ostracod faunas.

(b) Silurian and Lower Devonian Ostracoda, Gaspé, Que., being carried

a on in conjunction with studies of Ostracoda from Anticosti I.

(c) Silurian Ostracoda, Jones Creek, N.B., a small paper is proposed

a describing this fauna and its relationships with Silurian Ostracod faunas presently under consideration by DR. J.M. BERDAN (U.S.G.S.) in southern Maine.

(d) Additional occurrences of the Upper Silurian Stonehouse Formation

a ostracod fauna, Cobequid area, N.S., a continuation of the study commenced in 1960 on the ostracod fauna from the type area, Arisaig, N.S.

CUMMING, L.M. G.S.C.

(a) Paleozoic Bedrock geology of the Passamaquoddy Bay region, N.B.

rc Stratigraphy of Ordovician, Silurian and Devonian sediments described and regional structure interpreted in relation to the tidal power potential (Quoddy Project) of the region.

(b) Illustration of Canadian Fossils: Ordovician, Silurian and

nc Devonian of the Canadian Appalachians. A 'picture book' format, mainly invertebrate material from G.S.C. type collection with extensive bibliography.

(c) Graptolites from Gaspé Peninsula, Que., to describe and figure
a the region's stratigraphically important Ordovician and Silurian graptolite faunas.

(d) Biostratigraphic studies of platform and klippe rocks (Ordovician),
rs W. Nfld. Investigating the composition of map units in both platform and klippe terranes - e.g. divisions K, L, M_1, M_2, & N_3 (Table Head Formation).

DE CARLE, A. Structure, S shore N.B.: see BROWN

DEWEY, J.F. Cambridge
Structural studies in the W part of the central mobile belt in Nfld.
rs (Precambrian, Ordovician). A detailed study of the structural transition from the Fleur-de-Lys, Grand Lake Schists and Ordovician volcanic sequences into the carbonate sequence of the western stable shelf.

DEWEY, J.F. Arisaig area, N.S.: see BOUCOT

DINELEY, D.L. Arisaig area, N.S.: see BOUCOT

DINELEY, D.L. Chaleur Bay, Que.: see WILLIAMS, B.P.

EAKINS, P.R. McGill 1-ii 15
* Structure of the Eastern Townships, Que. (Lower Paleozoic)

EASTLER, T. Notre Dame Bay region, Nfld.: see KAY

EVANS, R. Kansas 1-iii 21
The geology of the Mississippian evaporite deposit at Pugwash, N.S.
rs Work will include investigations of regional setting, possible diapirism, mineralogy and petrology, nature and provenance of contained clastics, detailed internal stratigraphy utilising bromine investigations, structure and structural petrology and considerations of environment of deposition and geological history of the deposit. Mapping at 1:600 scale.

FERGUSON, L. Mt Allison
Giant arthropod trackways (Carboniferous) from Joggins, N.S. A slab
rs 25 by 10 feet bearing 3 sets of trackways (at least 2 individual animals are concerned) has recently been recovered. Provisional identification by DR. D. BAIRD of Princeton gives Arthropleura as track-maker.

FONG, C.C. Memorial
rs Paleoecology of Cambrian Archaeocyathids of Nfld.

FYSON, W.K. Ottawa 2-i 5
a Structural studies in Paleozoic rocks, N.S. (Carboniferous and earlier)

FYSON, W.K. Arisaig area, N.S.: see BOUCOT

GILLIS, J.W. G.S.C. (66-1 p 178)
Hare Bay region of the Great Northern Peninsula, Nfld. (Cambrian, Ordovician, Carboniferous)

GLOBENSKY, Y. Q.D.N.R.
Micropaleontological investigations of the Ordovician formations of
a the St. Lawrence Lowlands, Que. General survey of the micropaleontological potential with special emphasis on conodonts.

GOODWIN, R. Dalhousie 1-ii 16
* Carbonate petrology of the Windsor Limestone (Mississippian)in the Antigonish Basin, N.S.

GRANT, D.R. Dalhousie
Mega-structures on a structural envelope of the Meguma Group,
s (Ordovician), N.S. In order to study the gross geometry of the Meguma fold system, a structural envelope was constructed by contouring the surface containing the synclinal fold axes at the Halifax-Goldenville contact. This surface, which slopes northward, reveals longitudinal corrugations (with an amplitude of 50,000 ft.) persistent over 200 miles, with sinusoidal profile, apparently unaffected by the numerous intrusive bodies, and ornamented with cross-folds whose apices align obliquely as if though shearing.

GREINER, H.R. U.N.B. 1-i 13
* (a) Fossil fish of the Maritimes (Devonian). 2-i 10
* (b) Silurian-Devonian stratigraphy in the Charlo map area, northern N.B.

HACQUEBARD, P.A. G.S.C. (66-1 p 206)
Petrography and palynology of Main Seam (Carboniferous), Minto-Chipman area, N.B.

HAMILTON, J.B. N.B. Mines Branch
(a) Silica in N.B. Geological report on all known high-silica rocks
rs in N.B., includes sandstones, quartzites, quartz veins and diatomite. Data on field relationships, grade, quarrying or extractive opportunities, reserves and beneficiation possibilities.

(b) Sedimentary copper deposits (Carboniferous) of N.B. A study of
s the origin, reserves, etc., of malachite, chalcocite deposits of southern N.B.

HAY, P.W. N.B. Mines Branch
Stratigraphy and structure of the Silurian Mascarene Series, SW N.B.
rs Field mapping to extend the Eastport subdivisions of the Silurian rocks in Maine into N.B.

HELMSTAEDT, H. Structure, S shore N.B.: see BROWN

HELWIG, J. Notre Dame Bay region, Nfld.: see KAY

HICKOX, C.F. Arisaig area, N.S.: see BOUCOT

HORNE, G. Notre Dame Bay region, Nfld.: see KAY

HUBERT, C. Q.D.N.R. 1-iv 13
The stratigraphy of the Quebec Complex, L'Islet-Kamouraska area, Que.
* (Cambro-Ordovician).

IMPERIAL OIL LTD. Grand Banks & Gulf of St. Lawrence: see PAN AMERICAN

KAY, M., J. HELWIG, G. HORNE, E. SARPI, T. EASTLER Columbia 1-i 11
Stratigraphy and structure of Ordovician and Silurian rocks, Notre
a Dame Bay region, NE Nfld.

KELLEY, D.G. G.S.C. (66-1 p 172)
Cobequid Mountains, N.S. (Silurian to Carboniferous).

KINDLE, C.H. Cambrian & Ordovician, W. Nfld.: see WHITTINGTON

LAJOIE, J., J. BÉLAND, M.A. LEONARD, B. MATHEY Montréal In this issue
a Structure, stratigraphy and paleogeography of Lower Paleozoic strata in the Northern Appalachians, Québec. Detailed studies of sedimentary structures in field and laboratory and detailed structural analysis of an area near Rimouski.

LAMING, D.J.C. U.N.B.
a Carboniferous deltaic facies and paleocurrents, SE N.B., northern N.S., and eastern P.E.I. Interpretation of facies, paleocurrent mapping and study of evidence relative to contemporaneous tectonic movements, paleogeography and paleoclimate; mainly on the Boss Point Formation and higher beds. Submarine extensions off northern N.S. to be studied by sparker.

LAMING, D.J.C. Devonian, southwestern N.B.: see McILWAINE

LEE, D.T.C. Structure, S shore N.B.: see BROWN

LEE, H.A. G.S.C. (66-1 p 168)
A potential building stone (Precambrian limestone) near Lancaster, N.B.

LEONARD, M.A. Appalachians, Que.: see LAJOIE

LESPÉRANCE, P.J. Montréal 1-ii 15
a Upper Ordovician, Silurian and Lower Devonian Trilobites, particularly of the Québec Appalachians. Paleontology and stratigraphic paleontology, with most work so far done on the Upper Ordovician and Silurian White Head Formation of the Percé area.

LILLY, H.D. Memorial 2-i 12
* Submarine surveys on the Great Bank of Newfoundland and in the Gulf of St. Lawrence (Precambrian, Ordovician, Silurian).

MARLOWE, J.I. Bedford I.O.
a Stratigraphy and structure of bedrock (Tertiary and older) along the continental slope off N.S.

MASON, G.D. McGill
a Sedimentology of formations of U. Ordovician age in the St. Lawrence Lowlands between Quebec and Montreal. Sedimentary features of these Ordovician clastic rocks are being examined, analyzed and described to determine nature of source rocks, to evaluate distance and direction to source area and to estimate the nature of the depositional environment.

MATHEY, B. Appalachians, Que.: see LAJOIE

McILWAINE, W.H. O.D.M., & D.J.C. LAMING U.N.B.
a Stratigraphy and paleocurrents of red beds of Perry Formation (U. Devonian) St. Andrews and Black's Harbour, SE N.B. Trough cross-bedding and quicksand injection structures in sandstones, and pebble counts in conglomerates in the Passamaquoddy Bay area.

McKERROW, W.S. Arisaig area, N.S.: see BOUCOT

MOORE, R.G. Acadia 1-iv 17
* Stratigraphy and paleoecology of the Mississippian of the Minas subbasin, N.S.

NAUTIYAL, A.C. Memorial 1-ii 18, 1-iv 17
* Upper Cambrian and Lower Ordovician of Bell Is. and SE Conception Bay, Nfld.

NEUMAN, R.B. U.S.G.S., U.S. Nat Mus
Appalachian Ordovician brachiopods work continuing with collections
a from Maine to Nfld. Additional collections or news of new fossil occurrences welcomed.

PAN AMERICAN OIL CORP & IMPERIAL OIL LTD 2-i 34
* Bedrock petroleum exploration, Grand Banks and Gulf of St. Lawrence (?Tertiary and Carboniferous).

POLLARD, J.E. Manchester
A study of ostracod-sediment relationships in Upper Carboniferous
a rocks of Great Britain and Nova Scotia. An examination of possible relationships between ostracod faunas and sediments in bituminous shales and limestones of Lower Westphalian age and spirorbis-ostracod-algal limestones of Upper Westphalian age. The approach is paleoecological and consists of detailed population analyses of fauna and petrographic and partial geochemical analyses of the sediments.

POTTER, R.R. N.B. Mines Branch
(a) Metallogenic investigations in N.B. Mineral deposits as related
rs to stratigraphy (Precambrian to Triassic), structure and igneous activity.

(b) Geology of the Burnt Hill area, N.B. Stratigraphy, sedimentation
nc and structure within Ordovician greywackes, central N.B.

RUST, B.R. Ottawa 1-iv 15
Sedimentology of Carboniferous rocks, Cape Breton I., N.S. The
nc paleogeography of continental Horton Group (Mississippian) rocks is being reconstructed from paleocurrent and lithological data; also the relationship between lithotypes and sedimentary structures in the Pictou Group (Pennsylvanian) in the Sydney Basin is being studied.

SARPI, E. Notre Dame Bay region, Nfld.: see KAY

SCHENK, P.E. Dalhousie 1-ii 16
Carbonate petrography and paleoecology of the cyclic Windsor "Group"
a (Mississippian), Antigonish basin, N.S. Study of the depositional environment fauna and flora of carbonates, redbeds, and gypsum by field relations, carbonate petrology, microfauna and flora, insoluble residue, and elemental analysis.

SCHENK, P.E., & F. CAMPBELL Dalhousie 1-ii 16
Paleocurrent and basin analysis of the Meguma Group (?Ordovician) N.S.
a by orientation of primary sedimentary structures and by measurement of bed thickness and mineralogy.

SIKANDER, A.H. Ottawa 2-i 5
a Structural studies in lower Paleozoic rocks near Matane, Québec.

SMITH, J.C. U.N.B. & N.B. Mines Branch 2-i 33
Stratigraphy and structural geology of the Mispeck Group (Carboniferous)
rs southern N.B. Structural analysis from Saint John to Dipper Harbour. See also BROWN.

SMITH, J.C. Mount Pleasant area, N.B.: see VAN de POLL

STEVENS, R.K. G.S.C. 1-iv 13, 17
* The Humber Group (Cambro-Ordovician) in the Great Northern Peninsula, Nfld.

SUTHERLAND, J.K. N.B. R.P.C.
A study of the Pennsylvanian sandstones and Paleozoic quartzites
a of N.B. Chemistry (suitability for glass manufacture) heavy minerals and general mineralogy.

TUKE, M.F. Ottawa 1-ii 14
The significance of sudden facies changes, Pistolet Bay area, Nfld.
rc Cambrian and Ordovician strata can be divided into an autochthonous shelf and allochthonous eugeosynclinal sequences.

UTTING, J. Memorial 1-ii 17 & 1-iv 17
* Carboniferous rocks in the Codroy Valley, Nfld. Separation and study of spores.

VAN de POLL, H.W. N.B. Mines Branch
a Sedimentation and paleocurrents during Pennsylvanian in the Moncton Basin, N.B.

VAN de POLL, H.W., & J.C. SMITH N.B. Mines Branch & U.N.B.
Geology of the Mount Pleasant area N.B.: Mississippian type section
nc Geological compilation of several years of field and laboratory research comprising lithology, zonal variations, stratigraphy, economic geology of the Mount Pleasant Ash Flow tuff deposits and caldera subsidence of the Mount Pleasant Appendage.

VON BITTER, P.H. Acadia 1-iv 15
Correlation of Windsor Group (Mississippian) sub-zones by echinoderms
* in the Minas sub-basin, N.S.

WEBB, G.W. Massachusetts & Glasgow
Comparative wrench-fault study and palinspastic mapping, Northern
a Appalachians and British Isles. Study of wrench faults and related stress patterns of middle and late Paleozoic age, part compilation and part field work. Involves preparation of palinspastic base maps as bases for comparison across the North Atlantic, being another approach to the continental drift problem.

WEBB, G.W. and students Massachusetts
Carboniferous red beds in SE N.B. Stratigraphy and sedimentology
a of the Memramcook Formation, Moncton and Hopewell Groups, mainly Mississippian in age.

WHITTINGTON, H.B. Harvard, & C.H. KINDLE City Coll, N.Y. 1-i 13
* Stratigraphy and paleontology of Cambrian and Ordovician rocks of W. Nfld.

WILLIAMS, B.P. Wales, & D.L. DINELEY Ottawa 2-i 7
Sedimentological, paleontological and stratigraphic studies on the
rc Devonian strata of Chaleur Bay, Que.

WILLIAMS, F.M.G. McGill
Structural studies in the Stanbridge Formation (Ordovician) near
nc Cowansville, Que. Essentially a structural study but there is good evidence for submarine slumping and sliding penecontemporaneous with deposition.

WILLIAMS, H. G.S.C. (66-1 p 183)
Red Indian Lake, E half map-area, Nfld. (Ordovician, Silurian, Carboniferous).

ZIEGLER, A.M. Arisaig area, N.S.: see BOUCOT

CLASSIFIED SUBJECT INDEX

Regional and General Studies

including area mapping dealing with several systems

TERTIARY and ?TERTIARY and older

Stratigraphy

CARBONIFEROUS

Structure

Sedimentology

Stratigraphy

Hare Bay, Great N Pen, Nfld: GILLIS
Hopewell Group, N B: WEBB et al
Malignant Cove area, N S: BENSON
Memramcook Fm, N B: WEBB et al
Merigomish area, N S: BENSON
Metallogenic relations, N B: POTTER
Middle Carboniferous facies, Nfld: BELT
Minas sub-basin, N S, Windsor Lst: MOORE
Minas sub-basin, Windsor Group Echinoderms: VON BITTER
Mispeck Group, south N B: SMITH
Moncton Group, N B: WEBB et al
Mt Pleasant area, N B: VAN DE POLL & SMITH
Paleogeography, middle Carboniferous, Nfld: BELT
Red Indian L, Nfld: WILLIAMS, H
Windsor Group, Minas Basin, N S: CLIFTON
Windsor Lst, Minas sub-basin N S: MOORE

Paleontology

Arthropod tracks, Joggins N S: FERGUSON
Echinoderms, Windsor Group N S: VON BITTER
Minas sub-basin, paleoecology, N S: MOORE
Ostracod-sediment relationship, Gt Britain & N S: POLLARD
Paleoecology, Windsor Group, N S: SCHENK
Palynology, Minto coal, N B: HACQUEBARD
Spores, Codroy Valley, Nfld: UTTING
Windsor Group paleoecology, Antigonish, N S: SCHENK
Windsor Group, N S, Echinoderms: VON BITTER
Windsor Lst, paleoecology, N S: MOORE

DEVONIAN

Structure

Arisaig area, N S: BOUCOT et al
Cobequid Mtns, N S: KELLEY
Passamaquoddy Bay, N B: CUMMING

Sedimentology

Arisaig area, N S: BOUCOT et al
Chaleur Bay, Que: WILLIAMS & DINELEY
Passamaquoddy Bay, N B: McILWAINE & LAMING

Stratigraphy

Arisaig area, N S: BOUCOT et al
Chaleur Bay, Que: WILLIAMS & DINELEY
Charlo map area, N B: GREINER
Cobequid Mtns, N S: KELLEY
Ostracoda, Gaspé, Que: COPELAND
Passamaquoddy Bay, N B: CUMMING
Passamaquoddy Bay, N B: McILWAINE & LAMING
St Andrews, N B: McILWAINE & LAMING
Trilobites, Que: LESPÉRANCE

Paleontology

Appalachian fossils: CUMMING
Arisaig area, N S: BOUCOT et al
Chaleur Bay, Que: WILLIAMS & DINELEY
Fossil Fish: GREINER
Ostracoda, Gaspé, Que: COPELAND
Trilobites, Que: LESPÉRANCE

SILURIAN

Structure

Arisaig area, N S: BOUCOT et al
Cobequid Mtns, N S: KELLEY
Eastern Townships, Que: EAKINS
Mascarene Group, south shore N B: BROWN et al
Mascarene Series, N B: HAY
Notre Dame Bay, Nfld: KAY et al
Passamaquoddy Bay, N B: CUMMING
Rimouski, Que: LAJOIE et al

Sedimentology

Arisaig area, N S: BOUCOT et al
Rimouski, Que: LAJOIE et al

Stratigraphy

Arisaig area, N S: BOUCOT et al
Biostratigraphy, Anticosti I: BOLTON
Charlo map area, N B: GREINER
Cobequid Mtns, N S: KELLEY
Graptolites, Gaspé, Que: CUMMING
Mascarene Group, south shore N B: BROWN et al
Mascarene Series, N B: HAY
Notre Dame Bay, Nfld: KAY et al
Ostracoda, Anticosti, Que: COPELAND
Ostracoda, Gaspé, Que: COPELAND
Passamaquoddy Bay, N B: CUMMING
Red Indian L, Nfld: WILLIAMS, H
Rimouski, Que: LAJOIE et al
Trilobites, Que: LESPÉRANCE

Paleontology

Appalachian fossils: CUMMING
Arisaig area, N S: BOUCOT et al
Biostratigraphy, Anticosti I: BOLTON
Graptolites, Gaspé, Que: CUMMING
Ostracoda, Anticosti, Que: COPELAND
Ostracoda, Cobequid area, N S: COPELAND
Ostracoda, Gaspé, Que: COPELAND
Ostracoda, Jones Creek, N B: COPELAND
Trilobites, Que: LESPÉRANCE

ORDOVICIAN

Structure

Bay D'Espoir Gp, Nfld: ANDERSON
Burnt Hill, central N B: POTTER
Central mobile belt, Nfld: DEWEY
Cowansville Que, Stanbridge Fm: WILLIAMS F M G
Eastern Townships, Que: EAKINS
Hare Bay, Great N Pen, Nfld: GILLIS
Humber Group, Great N Pen, Nfld: STEVENS
Matane area, Que: SIKANDER
Meguma fold system, N S: GRANT
Notre Dame Bay, Nfld: KAY et al
Passamaquoddy Bay, N B: CUMMING
Rimouski, Que: LAJOIE et al
Stanbridge Fm, Cowansville Que: WILLIAMS F M G

Sedimentology

Burnt Hill, central N B: POTTER
Facies, Pistolet Bay, Nfld: TUKE
Greywackes, Burnt Hill N B: POTTER
Meguma Group, N S: SCHENK & CAMPBELL
Meguma Group, N S, Paleocurrents & basin analysis: SCHENK & CAMPBELL
Paleocurrents, Meguma Group N S: SCHENK & CAMPBELL
Quartzites of N B: SUTHERLAND
Rimouski, Que: LAJOIE et al
St Lawrence Lowlands, Que: MASON
Submarine slumps, Cowansville Que: WILLIAMS F M G

Stratigraphy

Bell I, Nfld: NAUTIYAL
Biostratigraphy, Anticosti I: BOLTON
Biostratigraphy, W Nfld: CUMMING
Burnt Hill, central N B: POTTER
Conception Bay, Nfld: NAUTIYAL
Graptolites, Gaspé, Que: CUMMING
Hare Bay, Great N Pen, Nfld: GILLIS
Humber Group, Great N Pen, Nfld: STEVENS
Metallogenic relations, N B: POTTER
Notre Dame Bay, Nfld: KAY et al
Passamaquoddy Bay, N B: CUMMING
Pistolet Bay, Nfld: TUKE
Quebec Complex, Kamouraska, Que: HUBERT
Ostracoda, Anticosti, Que: COPELAND
Red Indian L, Nfld: WILLIAMS, H
Rimouski, Que: LAJOIE et al
Trilobites, Que: LESPÉRANCE
W Nfld: WHITTINGTON & KINDLE

Paleontology

Appalachian brachiopods, Maine to Nfld: NEUMANN
Appalachian fossils: CUMMING
Biostratigraphy, Anticosti I: BOLTON
Biostratigraphy, W Nfld: CUMMING
Brachiopods, Appalachians from Maine to Nfld: NEUMANN
Conodonts, St Lawrence lowlands, Que: GLOBENSKY
Graptolites, Gaspé, Que: CUMMING
Micropaleo, St Lawrence lowlands, Que: GLOBENSKY
Ostracoda, Anticosti, Que: COPELAND
Paleoecology, stromatoporoids: BERRY
St Lawrence lowlands, Que, micropaleo: GLOBENSKY
Stromatoporoids: BERRY
Trilobites, Que: LESPERANCE
W Nfld: WHITTINGTON & KINDLE

CAMBRIAN

Structure

Hare Bay, Great N Pen, Nfld: GILLIS
Humber Group, Great N Pen, Nfld: STEVENS

Sedimentology

Facies, Pistolet Bay, Nfld: TUKE

Stratigraphy

Bell I, Nfld: NAUTIYAL
Conception Bay, Nfld: NAUTIYAL
Hare Bay, Great N Pen, Nfld: GILLIS
Humber Group, Great N Pen, Nfld: STEVENS
Pistolet Bay, Nfld: TUKE
Quebec Complex, Kamouraska, Que: HUBERT

Paleontology

Archaeocyathids, paleoecology, Nfld: FONG
Paleoecology, Archaeocyathids, Nfld: FONG
W Nfld: WHITTINGTON & KINDLE

PRECAMBRIAN

Structure

Coldbrook Group, S shore N B: BROWN et al
Green Bay, Nfld: CHURCH
White Bay South, Nfld: CHURCH

Sedimentology

Green Head Group, Saint John, N B, building stone: LEE, H A

Stratigraphy

Coldbrook Group, S shore N B: BROWN et al

Late additions to the General List

McKERROW, W.S., S. MOORBATH Oxford, J.F. DEWEY Cambridge
Stratigraphic, structural and isotopic age dating in the Lower
rs Paleozoic rocks of Newfoundland, with emphasis on comparisons with the British Isles.

HUDGINS, A. UNB Saint John College
Silurian sedimentary rocks and structure, and Carboniferous outliers,
a Cobequid Mtns, N.S.

List of Respondents' Institutions

Acadia	ACADIA UNIVERSITY, Wolfville, N.S.: Moore, von Bitter.
Amherst Coll	AMHERST COLLEGE, Amherst, Mass.: Belt.
Bedford I.O.	BEDFORD INSTITUTE OF OCEANOGRAPHY, Dartmouth, N.S.: Marlowe.
Cal Tech	CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif: Boucot.
Cambridge	SEDGEWICK MUSEUM, CAMBRIDGE UNIVERSITY, Cambridge, England: Dewey.
City Coll	CITY COLLEGE, New York City, N.Y.: Kindle.
Colby Coll	COLBY COLLEGE, Waterville, Maine: Hickox
Columbia	COLUMBIA UNIVERSITY, New York, N.Y.: Eastler, Helwig, Horne, Kay, Sarpi.
Dalhousie	DALHOUSIE UNIVERSITY, Halifax, N.S.: Campbell, Goodwin, Grant, Schenk.
Glasgow	UNIVERSITY OF GLASGOW, Glasgow, Scotland: Webb
G.S.C.	GEOLOGICAL SURVEY OF CANADA, Ottawa, Ont.: Anderson, Benson, Bolton, Copeland, Cumming, Gillis, Hacquebard, Kelley, H.A. Lee, Stevens, H. Williams.
Harvard	HARVARD UNIVERSITY, Cambridge, Mass.: Whittington.
Kansas	UNIVERSITY OF KANSAS, Lawrence, Kansas: Evans.
Manchester	UNIVERSITY OF MANCHESTER, Manchester, England: Pollard.
Massachusetts	UNIVERSITY OF MASSACHUSETTS, Amherst, Mass.: Webb et al.
McGill	McGILL UNIVERSITY, Montreal, Que.: Berry, Eakins, Mason, F.M.G. Williams
Memorial	MEMORIAL UNIVERSITY OF NEWFOUNDLAND, St. John's, Nfld: Fong, Lilly, Nautiyal, Utting.
Montreal	UNIVERSITÉ DE MONTRÉAL, Montréal, Que.: Béland, Lajoie, Leonard, Lespérance, Mathey.
Mt Allison	MOUNT ALLISON UNIVERSITY, Sackville, N.B.: Ferguson.
N B Mines Branch	MINES BRANCH, NEW BRUNSWICK DEPARTMENT OF LANDS AND MINES (soon to be N.B. DEPARTMENT OF NATURAL RESOURCES): Hamilton, Hay, Potter, Smith, van de Poll.
NB R.P.C.	NEW BRUNSWICK RESEARCH AND PRODUCTIVITY COUNCIL, Fredericton, N.B.: Abbott, Barnett, Sutherland.
O.D.M.	ONTARIO DEPARTMENT OF MINES, Toronto, Ontario: McIlwaine.
Ottawa	UNIVERSITY OF OTTAWA, Ottawa, Ont.: Dineley, Fyson, Rust, Sikander, Tuke.
Oxford	OXFORD UNIVERSITY, Oxford, England: McKerrow, Moorbath, Ziegler.
Q.D.N.R.	QUÉBEC DEPARTMENT OF NATURAL RESOURCES, Québec City, Que.: Globensky, Hubert.
U.N.B.	UNIVERSITY OF NEW BRUNSWICK, Fredericton, N.B.: Brown, de Carle, Greiner, Helmstaedt, Laming, Lee, D.T.C., Smith. At Saint John, N.B.: Hudgins.
U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY, Washington, D.C.: Neuman, and Menlo Park, Calif.: Clifton.
U.S. Nat Mus	UNITED STATES NATIONAL MUSEUM, Washington, D.C.: Neuman.
Wales	UNIVERSITY COLLEGE OF SWANSEA, UNIVERSITY OF WALES, Swansea, Wales: B.P. Williams.
W Ontario	UNIVERSITY OF WESTERN ONTARIO, London, Ont.: Church.