

Meetings

Volume 2, numéro 3, July 1966

URI : https://id.erudit.org/iderudit/ageo02_3met01

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Éditeur(s)

Maritime Sediments Editorial Board

ISSN

0843-5561 (imprimé)

1718-7885 (numérique)

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Citer ce document

(1966). Meetings. *Atlantic Geology*, 2(3), 143–150.

MEETINGS

FORTHCOMING MEETINGS: 1966Geological Association of Canada and Mineralogical Association of Canada:
joint Annual Meeting.

September 12 - 13, Nova Scotian Hotel, Halifax, N.S.

Program

Friday, September 9) Pre-convention field trips Nos. 1, 2A, 2B,
 Saturday, September 10) and 2C (for details, see April issue)

Sunday, September 11:

3:00 pm Boat tour of Halifax Harbour (tickets required)
 7:30 pm Outgoing G.A.C. and M.A.C. Council meetings
 8:30 - 10:30 pm Coffee party for all Registrants.

Monday, September 12:

8:45 am G.A.C. and M.A.C. Annual Business Meetings
 10:15 am General Session: Appalachian and Marine Geology of
 Eastern North America
 12:30 pm G.A.C. and M.A.C. Luncheon and Presidential Address by
 DR. H.D.B. WILSON (tickets required)
 2:30 pm Technical Sessions:
 Session (A): Mineralogy and Crystallography (1)
 Session (B): Petrology (1)
 Session (F): Sedimentology and Marine Geology (1)
 Session (G): Economic Geology
 6:30 pm Reception and Annual Dinner. Presentation of the Logan
 Medal for 1966, and talk by guest speaker,
 DR. WILL R. BIRD (tickets required)

Tuesday, September 13:

9:00 am Technical Sessions:
 Session (B): Petrology (2)
 Session (C): Paleontology
 Session (E): Geomorphology and Groundwater Geology
 Session (F): Sedimentology and Marine Geology (2)
 12:30 pm Lunch at Kings College Cafeteria (complimentary)
 2:00 pm Technical Sessions:
 Session (A): Mineralogy and Crystallography (2)
 Session (D): Stratigraphy
 Session (H): Structural Geology
 7:00 pm Lobster Dinner at Shore Club, Hubbards (complimentary)

Wednesday, September 14) Post-convention field trips Nos. 3 to 8
 Thursday, September 15) (for details, see April issue)

Many papers of direct concern to the region will be presented at the convention. In the General Session on Monday morning, three papers of particular interest will be presented:

- W.H. POOLE: Geology of the Appalachian Region of Canada
- K.O. EMERY: The Atlantic continental margin of the United States during the past 70 million years
- B.R. PELLETIER: Development of marine geology and geophysics in eastern Canadian waters

Papers to be presented in the Technical Sessions include the following ones of interest to the region:

Sedimentology and Marine Geology

- S.M. CASSHYAP: Paleocurrent analysis of the Huronian rocks south of Espanola, Ontario
- A.E. COK, G. DRAPEAU, and D.J. STANLEY: Modification of glacial sediments by the Holocene transgression on the Scotian Shelf
- N. JAMES, F. MEDIOLI and D.J. STANLEY: Dynamic sedimentation patterns on Sable Island Bank
- L.H. KING: On the sediments and stratigraphy of the Scotian Shelf
- K.M. KRANCK: Sediments of Exeter Bay area, Baffin Island
- D.H. LORING and D.J.G. NOTA: Geomorphology of the sea floor around the Magdalen Islands in the southern Gulf of St. Lawrence
- A.K. LYALL, J.A. MILLER and D.J.P. SWIFT: Quaternary stratigraphy and sediment dispersal in the Bay of Fundy
- R.G. PIRIE: Environmental characteristics of glacial sediments in fluvial, estuarine and marine waters, Chaleur Bay, Québec
- J.H. McD. WHITAKER: Ancient submarine canyon-heads

Stratigraphy and Paleontology

- M.S. BARSS and P.A. HACQUEBARD: Age and stratigraphy of the Pictou Group in the Maritime Provinces as revealed by fossil spores
- G.A. BARTLETT: Recent foraminifera and thecamoebina in Miramichi estuary
- W.D. BRUCKNER: Zones of chaotic structure in Newfoundland
- H.H. DOMBROWSKI: Micropaleontological investigation of rock salts from Pugwash, Nova Scotia
- B.J. KEATING: The George River problem
- G. deV. KLEIN: Triassic lithostratigraphy of western Nova Scotia
- P. LASALLE: The marine transgression in the Lake St. John area, Québec
- J.I. MARLOWE: Subsurface stratigraphy of the outer continental shelf near Sable Island
- R.G. MOORE: Lithostratigraphic units in the Upper Windsor Group, Minas sub-basin, Nova Scotia
- A.C. NAUTIYAL: Discovery of "hystrichospheres" (Acritarchs) in the Cambro-Ordovician sequence of southeast Newfoundland
- P.E. SCHENK: Paleoenvironmental significance of algal stromatolites of the Windsor "Group" (Mississippian), Nova Scotia
- L.S. STEVENSON and J.S. STEVENSON: Francolite from microsauro teeth, Joggins, Nova Scotia

- P.H. von BITTER: Echinoderms as guide fossils in the correlation of the Windsor Group subzones of the Minas Sub-Basin, Nova Scotia
 J.H. McD. WHITAKER: Ancient submarine canyon-heads

Structural and Regional Geology

- A.R. BERGER: Caledonian chronology in northwestern Donegal, Eire
 R.L. BROWN: On the formation of conjugate folds during high grade metamorphism
 W.D. BRUCKNER: Zones of chaotic structure in Newfoundland
 W.R. CHURCH: Geology of the Burlington Peninsula, northeast Newfoundland
 R. DOIG: Geochronology of some very late Precambrian rocks of the Chatham-Grenville type
 P. HOOD and M. BOWER: Aeromagnetic survey of the Scotian Shelf southeast of Halifax, Nova Scotia
 R.D. HOWIE and L.M. CUMMING: Basement graben beneath Miramichi Bay, New Brunswick
 H.D. LILLY: Stratigraphy and structural style in central west Newfoundland
 G.C. MILIGAN: Possible applicability of the concept of tectonic depth to the Canadian Shield
 C.G. WINDER and R.J. BRIGHAM: The structural geology of Paleozoic sediments in southern Ontario

Groundwater Geology

- P.A. CARR: Groundwater in the Appalachians
 D.N. JEFFS: The management of groundwater in Ontario
 J.J. TREMBLAY: La géochimie de l'eau souterraine de la région de Beloeil, Québec
 P.C. TRESCOTT: Groundwater resource evaluation, Annapolis-Cornwallis valley, Nova Scotia

Economic Geology

- R.W. BOYLE: Origin of the gold and silver deposits of the Meguma Series, Nova Scotia
 J.E. TILSLEY and J.C. ROWNTREE: A study of geochemical prospecting techniques in northern Cape Breton.

New England Intercollegiate Geologic Conference

September 29 - October 1, at Mt. Katahdin and vicinity, Maine.

This meeting will be held in rather more rugged conditions than usual, as the area is not well served with accommodation. Three concurrent field trips, each two days long, will deal with stratigraphy, structure and paleontology (Trip A), structure, stratigraphy and igneous petrology (Trip B), and Pleistocene features (Trip C). Further details from DR. D.W. CALDWELL, c/o DR. BRADFORD A. HALL, Department of Geology, University of Maine, Orono, Maine 04473.

Atlantic Universities Geological Conference

November 11 - 13, Halifax, Nova Scotia

This year's A.U.G. Conference is being sponsored by the DAWSON GEOLOGY CLUB of DALHOUSIE UNIVERSITY, and by the MINING AND METALLURGICAL SOCIETY of NOVA SCOTIA TECHNICAL COLLEGE, for the weekend of Friday, November 11 to Sunday, November 13, 1966.

Registration takes place on Friday evening in the Sir James Dunn Science Building at Dalhousie, and will be followed by a "Smoker". Saturday is devoted to the presentation of student papers in the Dunn Building, with a banquet in the evening at which DR. B.R. PELLETIER will speak on the Polar Shelf Project. Field trips will take place on Sunday, delegates disbanding in the evening.

Good representation from the colleges and universities of the Atlantic Provinces is expected, and the organizers extend a welcome to all students in the Earth Sciences and their professors to attend. Representatives of industry are also expected this year. Further enquiries should be addressed to:

ALAN RUFFMAN,
Chairman, Atlantic Universities Geological Conference,
Dunn Science Building,
Dalhousie University,
Halifax, Nova Scotia.

Geological Society of America and associated organizations: annual meeting

November 14 - 16, San Francisco, Calif.

Details from RAYMOND BECKER, Executive Secretary, Geological Society of America, 231 East 46th Street, New York 10017.

Biostratigraphic Seminar

November 21?, Department of Geology, University of Ottawa.

Details from DR. D.L. DINELEY, and DR. B.R. RUST, Department of Geology, University of Ottawa, Ottawa 2, Ontario.

FORTHCOMING MEETINGS: 1967Northeastern Section of the Geological Society of America: annual meeting

March 16 - 18, at the Hotel Somerset, Boston, Mass.

Abstracts deadline for the Marine Geology Session is October 1, 1966; for other sessions, November 1, 1966. Abstract forms are available from, and should be sent to:

DR. MARLAND P. BILLINGS,
Department of Geological Sciences,
Harvard University,
Cambridge, Mass. 02138.

A.A.P.G. - S.E.P.M.: annual meetings, April 10 - 13, Los Angeles, Calif.
Theme: "Rocks and Dollars"; program chairman J.R. JACKSON Jr.,
Humble Oil & Refining, 612 S. Flower Street, Los Angeles 90017.

Seventh International Sedimentological Congress: August 11 - 15,
Reading and Edinburgh, Great Britain. For details and pre-regis-
tration, write to Secretariat, VII International Sedimentological
Congress, Sedimentology Research Laboratory, UNIVERSITY OF READING,
Whiteknights Park, Reading, Berks., England.

International Conference on Stratigraphy and Structure bearing on
Continental Drift in the North Atlantic Ocean

August 24 - 30, at Gander, Nfld.; field trips before and after.
Tentative plans and program are as follows:

August 17 - 23: Eastern field trips from St. John's to examine Pre-
Cambrian to Ordovician rocks of the Avalon Peninsula and Terra
Nova Park.

August 24 - 30: Conference and local field trips at Gander; the trips
to the Ordovician and Silurian on the nearby coast will be run on
days of favourable weather.

August 30 onward: Field trips to Burlington Peninsula for ?Precambrian
and Lower Paleozoic rocks (2 days); Great Northern Peninsula to St.
Anthony along the west coast (5 days); around Corner Brook (1 day)
and to the Port-au-Port Peninsula (2 days).

The following list of papers for presentation at the conference is
tentative, and topics are suggested:

- E.S. BELT: Carboniferous of the Atlantic Provinces
- J.M. BIRD: Taconic overthrusts of Northeastern United States
- B.J. BLUCK: Paleozoic conglomerates of Scotland, particularly Devonian
- A.J. BOUCOT: Silurian of the Maritime Provinces
- D.R. BOWES: Lewisian of Scotland
- D. BRIDGEWATER and associates: Stratigraphy and structure of Greenland
- J.C. BRINDLEY: Intrusive rocks of Ireland
- P. BROWN and associates: Paleozoic geochronometry - British Isles
- W. CAMBRAY: Dalradian of northern Ireland
- W.R. CHURCH: Fleur de Lys and similar rocks
- P. CLIFFORD: Precambrian of western Newfoundland
- E.R. DEUTSCH: Paleomagnetism - Paleozoic of North Atlantic
- J.F. DEWEY: Secondary structures
- P. FRIEND: Old Red Sandstone
- H.R. GREINER: Aspects of Cambrian paleontology
- B.A. HALL: Aspects of New England geology
- J. HALLER: Aspects of east Greenland
- W.B. HARLAND: Spitzbergen geology and its bearing
- J. HELWIG: Conglomerates of northeastern Newfoundland
- G. HENNINGSMOEN: Cambrian of eastern Atlantic
- J. HUBERT: Sedimentation of Ordovician at Girvan, Scotland
- D.E. JACKSON: Graptolites of western Europe
- M.R.W. JOHNSON: Dalradian of Scotland

B. KENNEDY: Dalradian of Achill, W. Ireland
 C.H. KINDLE: Ordovician of western Newfoundland
 W.D. McCARTNEY: Precambrian of Avalon Peninsula, Newfoundland
 W.S. MCKERROW: Silurian of British Isles
 E.R.W. NEALE: Thrust sheets of western Newfoundland
 R.B. NEUMANN: Ordovician of New England
 P. OSBERG: Lower Paleozoic of southwestern Quebec-Vermont
 A.R. PALMER: Cambrian faunal comparisons
 W.S. PITCHER: Transcurrent faulting in the British Isles
 W.H. POOLE: Nature of Newfoundland continental shelf
 J.G. RAMSAY: Moinian and its relationships
 J. RIVA: Graptolites of northeastern North America
 A.T.V. ROTHSTEIN: Ultrabasic rocks of Scotland
 A.D. STEWART: Torridonian stratigraphy and structure
 K. SWETT: Cambro-Ordovician of Northwest Scotland
 K.G. WALTON: Primary structures in British Isles
 G.W. WEBB: Transcurrent faulting in the Atlantic Provinces
 E.H.T. WHITTEN: Aspects of the metamorphic rocks
 H.B. WHITTINGTON: Ordovician of western Newfoundland
 A. WILLIAMS: Ordovician of the British Isles
 H. WILLIAMS: Geology of Newfoundland
 A.E. WRIGHT: Precambrian of southern Great Britain

Further details from DR. MARSHALL KAY, 310 Schermerhorn Hall, Columbia University, New York, N.Y. 10027.

International Symposium on the Devonian System: September 6 - 8, at Calgary, Alberta. Details from the Secretary, International Devonian Symposium, P.O. Box 53, Calgary, Alberta.

Sixth International Congress of Carboniferous Stratigraphy and Geology: September 11 - 16, at Sheffield, England. Details from A.W. WOODLAND, Geological Survey Office, Ring Road, Halton, Leeds 15, England.

REPORTS OF RECENT MEETINGS

A.A.P.G. - S.E.P.M. annual meetings, St. Louis, Mo., April 1966.

The joint meeting of the AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS and the SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS was held on April 25 to 28, 1966 in St. Louis, Missouri. This meeting, which coincided with the Semicentennial Celebration of the A.A.P.G., was well attended by North American geologists including representatives from Eastern Canada. The main theme of the A.A.P.G. Technical Program centred around geographical and scientific frontiers of petroleum geology, and sedimentation in many of the world's major basins. The A.A.P.G. Research Symposium was entitled "Applied Carbonate Petroleum Geology"; the S.E.P.M. Research Symposium had as a major theme "Physical Breaks in the Stratigraphic Record". Of particular interest to those working with sediments were the numerous papers presented in two technical sessions of the S.E.P.M. The two themes emphasized: "Compaction and Diagenesis of Recent and Modern Sediments" and "Nekton, Plankton, and Biostratigraphy".

Two field trips, sponsored by the ILLINOIS and MISSOURI GEOLOGICAL SURVEYS, were held in the Illinois Basin. Sedimentological and stratigraphic aspects of Carboniferous sandstones in southwestern Illinois and of Ordovician and Mississippian rocks near St. Louis were examined.

The following talks were concerned with geology in northeastern North America:

J.M. DENNISON and A.K. MORRISON: Facies relations of hystrichospheres in Onesquethaw stage (Devonian) of Central Appalachians.

G.deV. KLEIN: Directional relationships between primary structures and current systems in a tide-dominated environment.

P.J. LEE and C.G. WINDER: Fabric of a middle Ordovician limestone at Colborne, Ontario.

J.C. SPROULE: Geology of Arctic Islands.

D.J. STANLEY: Graded flood deposits (in Rhode Island) and turbidites: comparison and significance.

C.G. WINDER: Conodont zones and stratigraphic variability in Upper Devonian of Ontario.

The abstracts presented at this meeting have been published in the March 1966 Bulletin of the American Association of Petroleum Geologists, v. 50, p. 600-642.

D.J. STANLEY

Mining Society of Nova Scotia Annual Meeting, Keltic Lodge, Cape Breton

The annual meeting of the Mining Society of Nova Scotia was held in Keltic Lodge from June 29 to July 2, 1966. While the technical talks were of some interest to this reporter, the meeting was more valued as a social event, very useful for the development of professional contacts.

The Technical Session allowed ample time for presentation and discussion of papers. I was impressed by the clear and well-presented paper by J.N. GILLIS and L.C. JOHNSTON on "Quarrying and sizing limestone for metallurgical purposes at Irish Cove, and the use of sized limestone in steelmaking". The paper was sponsored by DOSCO STEEL LTD. and SCOTIA LIMESTONE LTD.

The great majority of the participants came from Nova Scotia, but there were a number of representatives from other provinces in the region, including Québec and Ontario. Colleagues were quite interested in my description of the growth and development of DALHOUSIE UNIVERSITY in the field of geology, and the importance it is attaining.

During the convention we had several banquets and balls during which the participants had good opportunity to meet each other and to get to know new colleagues such as myself.

F. MEDIOLI

Field Trip on the Five Islands Intertidal Flat Complex, Nova Scotia, July 1966

For two days at the end of July, the sedimentary structures exposed on the floor of the Bay of Fundy at Five Islands were observed, photographed, prodded, dug into, argued over and trampled on by a small group of sedimentologists and marine geologists. The purpose was to demonstrate the orientation of bed-forms of different scales, and to relate these orientations to the flow parameters of tidal currents.

The field areas were reached by means of a 42-foot lobster boat, which was anchored at a selected locality and allowed to ground during the ebb tide. During the period of waiting for the surface to expose, it was possible to observe bedform migration during the late-stage ebb; once the sand was bared, up to five hours was available for examination of the intertidal zone sediments before re-submergence. Extensive bedform migration was indicated in selected areas by means of sand which had been dumped on the surface prior to the visit, and which was made very visible by a coating of orange Day-Glo. This showed, in impregnated box-cores, accumulation rates of up to 10 cm after four tidal cycles. Larger scale changes in sediment distribution and elevation over a 12-month period were also demonstrated, in some cases amounting to a net increase in accumulation of 4 feet between July 1965 and July 1966. Of particular interest to the group was the widespread occurrence of linguoid ripples, and the intimate association of striated sandy gravel with straight-crested current rippled sand on a gravel substrate. A report will appear later.

The field trip was led by DR. GEORGE deVRIES KLEIN of the UNIVERSITY OF PENNSYLVANIA, who is engaged in this intertidal zone research project (see Maritime Sediments 2-1 19-21, January 1966). This program involves joint work with HUDSON LABORATORIES OF COLUMBIA UNIVERSITY, which is supporting the field program under the auspices of the OFFICE OF NAVAL RESEARCH (Contract Nonr-266(84)). Academic year support for the laboratory program comes from a grant to the University of Pennsylvania by the NATIONAL SCIENCE FOUNDATION (GA-407).

Participants on the field trip included DR. DERYCK J.C. LAMING, of the UNIVERSITY OF NEW BRUNSWICK, DR. DONALD J.P. SWIFT of DALHOUSIE UNIVERSITY, DR. MICHAEL McMULLEN of the BEDFORD INSTITUTE OF OCEANOGRAPHY, DR. DANFORD G. KELLEY of the GEOLOGICAL SURVEY OF CANADA, DR. GERHARD EISBACHER of PRINCETON UNIVERSITY, and DR. ROGER G. WALKER of McMASTER UNIVERSITY together with several assistants.

G. deV. KLEIN