

## Current Research

### Eastcoast Petroleum Operators Association (EPOA) - Activities During 1973 by M.E. Hriskevich:

During 1973, EPOA engaged in activities of wide-ranging scope. In addition to financially contributing to the preparation of briefs by the oil industry which were submitted to the Conference on Man and Resources, sponsored by the Federal Government, the Association participated in a 3-day Conference on the theme entitled "Resources of the Sea - Fish and Oil" which was held in St. John's, Newfoundland in mid-May, and which was organized by the Department of Extension of Memorial University.

The main effort of the Association has, however, been in initiating and in sharing in the funding of technical projects of research nature which are of considerable importance to not only the petroleum exploration companies active in the Eastcoast offshore, but to others active in the area, notably members of the fisheries and transportation industries.

The "Study of Species, Places and Times sensitive to Industry Activities and Oil Spills on the Eastcoast of Canada" was initiated by EPOA in 1972 and has been essentially completed. The final report is expected during early 1974. The purpose of the study is to gather all available information, published and unpublished, dealing with the environment of the eastcoast offshore from Nova Scotia to Hudson Strait area and would include data on such items as birds, marine mammals, fish, algae, etc. The basic premise of the study was to determine exactly what protection all components of this ecosystem required from certain types of pollution, such as, for example, oil spills. The Association underwrote the complete cost of this study.

During 1973 the Association in equal co-operation with the Federal Government commissioned the Marine Applications Council to conduct a program to monitor hydrocarbon levels in sea water on Canada's eastern continental shelf. An area off the east coast of Nova Scotia has been selected for this pilot project which is designed to establish existing baseline levels of hydrocarbons in sea water in order to permit identification of future changes. The long range purpose is to provide results which might be used to help quantify any ill effects of increased levels of hydrocarbons on the marine eco-system. The present program will concentrate on the measurement of those hydrocarbon fractions presently considered to be most harmful. The results of this study will determine whether the study should be extended to other parts of the east-coast offshore.

In the field of telecommunications, the Association, again with equal co-operation from the Federal Government, is conducting a study to investigate the causes of, and possible

solutions to the serious problems encountered in communications between on- and offshore. Present requirements as they relate to the operation of exploratory drilling rigs located as much as 300 miles offshore, and future requirements as they pertain to communication with producing facilities (if and when commercial production is obtained) are presently being investigated. This study will be completed early in 1974.

The EPOA Committee has arranged a joint wave rider buoy installation program, with the Department of the Environment, for the Eastcoast offshore area. The DOE has agreed to provide and maintain wave rider buoys with each offshore drilling rig. This information will provide accurate wave data during normal and storm periods in the Eastcoast offshore area. The data will be used in developing operating criteria and provide a basis for calculating maximum design wave requirements for offshore structure design.

In addition to these activities, the Association evaluates presentations made by various private investigators. These include a wide range of schemes and processes, including, for example, one to obviate the danger of icebergs by means of Laser beams.

The outgoing chairman for 1973 extends to the chairman for 1974, Mr. John D. Burns, Amoco Canada Petroleum Ltd., every wish for a year of successful activity. The Board of Directors for 1974 is as follows:

Expiring at end of 1974: J.D. Burns, Amoco Canada Petroleum Company Ltd.; D.J. Bester, Mobil Oil Canada, Ltd.; M. Wopnford, Shell Canada Limited; E.G. Fisher, BP Oil and Gas Ltd.; M.E. Hriskevich, Aquitaine Company of Canada Ltd.

Expiring at end of 1975: H.E. Weiner, Chevron Standard Limited; A.S. Murray, Imperial Oil Limited; J. Hnatiuk, Gulf Oil Canada Limited; L.P. O'Connell, Texaco Exploration Canada Limited.

### Geological Survey of Canada Publications:

Bulletin 220 (\$5.00) - Stratigraphy and Mineralogy of the Sokoman Formation in the Knob Lake Area, Quebec and Newfoundland, by I.S. Zajac, 1974, 159 p., illus. 1 figure folded in pocket.

Bulletin 225 (\$3.00) - Quaternary stratigraphy of the Moose River basin, Ontario, by R.G. Skinner, 1973. In portfolio: text, 77 p., illus., tables, figs.

Bulletin 226 (\$2.50) - Part A: Sedimentology of Pleistocene glacial varves in Ontario, Canada. Part B: Nature of the grain-size distribution of some Pleistocene glacial varves of Ontario, Canada, by Indranil Banerjee, 1973, 60 p., illus., tables,

- figs. (2 figs. folded in pocket).
- Bulletin 240 (\$2.00) - Lower Ordovician trilobites from the Summerford Group at Virgin Arm, New World Island, north-eastern Newfoundland, by W.T. Dean, 1973, 43 p., fig. illus.
- Map 1300A (50 cents) - Eureka Sound (Geology), District of Franklin, 1972. Lat. 78-00 to 79-00; Long. 84-00 to 88-00. Sheet 49F. Scale 1:250,000. Compilation by R. Thorsteinsson.
- Map 1341A (\$1.00) - Geology, California Lake, New Brunswick, compiled by C.H. Smith, R. Skinner and W.H. Poole, 1971. Lat. 47°15' to 47-30; Long. 66-00 to 66-30. NTS Sheet 21 0/8. Scale: 1:50,000.
- Map 1342A (\$1.00) - Geology, Kasheshibaw Lake E½, Newfoundland-Quebec, by S.M. Roscoe and R.F. Emslie. Lat. 54-00 to 55-00; Long. 62-00 to 63-00. NTS Sheet 13-L E½. Scale: 1:250,000.
- Map 1359A (\$1.00) - Geology, Kennedy Channel and Lady Franklin Bay, District of Franklin, by J. Wm. Kerr, 1972. Lat. 80-00 to 81-15; Long. 64-00 to 72-00. NTS Sheet 120B. Scale: 1:250,000.
- Paper 65-10 (\$2.00) - Rocks and minerals for the collector: Northeastern Nova Scotia, Cape Breton and Prince Edward Island, by Ann P. Sabina, 75 p., illus. Reprinted 1973.
- Paper 71-14 (\$2.00) - Upper Paleozoic stratigraphy of the Eagle Plain Basin, Yukon Territory, by H.L. Martin, 54 p. tables, figs. (2 folded in pocket).
- Paper 71-45 (\$2.00) - Geology of Malpeque-Summerside area, Prince Edward Island, by V.K. Prest, 21 p. illus., figs. Maps 6-1971 and 7-1971 folded in pocket.
- Paper 72-3 (\$1.50) - Index of publications of the Geological Survey of Canada (1971-72). This index lists Geological Survey publications issued from 1 April 1971 to 31 March 1972.
- Paper 72-23 (\$2.00) - Rubidium-strontium isochron age studies: Report 1, by R.K. Wanless and W.D. Loveridge, 77 p. tables, figs.
- Paper 72-27 (\$2.00) - Fluvial sedimentary structures formed experimentally in a pipe, and their implications for interpretation of subglacial sedimentary environments, by B.C. McDonald and J.S. Vincent, illus., tables, figs.
- Paper 73-10 (\$2.00) - Three new lower Paleozoic formations of the Boothia Peninsula region, Canadian Arctic Archipelago, by R.L. Christie, 31 p., illus., tables, figs.
- Paper 73-11 (\$1.00) - Publications on the geology of the Arctic Islands, by the Geological Survey of Canada, revised May 1973. Compiled by R.L. Christie, 39 p.
- Paper 73-12 (\$2.00) - Some spores and pollen from the Christopher Formation (Albian) of Ellef and Amund Ringnes Island, and north-western Melville Island, Canadian Arctic Archipelago, by W.S. Hopkins, 39 p., illus., figure.
- Paper 73-22 (\$5.00) - A catalogue of Canadian minerals - Supplement 1, by R.J. Traill, 260 p. This publication is a supplement to GSC Paper 69-45.
- Paper 73-23 (\$3.00) - Sedimentation and manganese concretions in a British Columbia fiord (Jervis Inlet), by R.D. Macdonald and J.W. Murray, 67 p., illus., tables, figs. (figure folded in pocket).
- Paper 73-26 (\$2.00) - Palynology and nannofossil processing techniques, by M.S. Barss and G.L. Williams, 22 p., illus., figs.
- Paper 73-33 (\$2.00) - Deltaic sedimentation in the northeastern Bowser Basin, British Columbia, by G.H. Eishbacher, 13 p., illus., figs.
- Paper 73-35 (\$2.00) - Use of a geological field data collecting form on Operation Bylot, north-central Baffin Island, 1968, by E.W. Reinhardt and G.D. Jackson, 29 p., illus., figs.
- Paper 73-36 (\$1.00) - Studies in "standard samples" of silicate rocks and minerals - Part 3: 1973 extension and revision of "usable" values, by Sydney Abbey, 25 p., tables.
- Paper 73-42 (\$2.00) - Fossil dinoflagellates: Index to genera and species, by J.K. Lentin and G.L. Williams, 176 p.
- Paper 74-1 Part A (\$5.00) - Report of Activities, April to October 1973, 396 p., illus., tables, figs. Contains 139 short reports on field projects undertaken by the Geological Survey during 1973. The report will be available from 16 January, 1974 at the offices of the Geological Survey previously listed as well as Department of Energy, Mines and Resources, 1535 chemin Ste-Foy, Suite 200, Quebec G1S 2P1, P.Q. Also at the following addresses: Resident Geologists (1) Indian and Northern Affairs Department, Box 1500, Yellowknife, N.W.T.; (2) Indian and Northern Affairs Department, Room 211, Federal Building, Whitehorse, Yukon Territory.
- Paper 74-19 (\$2.00) - Analysis of rocks and minerals using an atomic absorption spectrophotometer - Part 5. An improved lithium-fluoborate scheme for fourteen elements, by Sydney Abbey, Naomi J. Lee and J.L. Bouvier, 26 p., tables, figure.