

PROCEEDINGS
OF THE
Nova Scotian Institute of Science

SESSION OF 1920-1921

(Vol. XV, Part 3)

59TH ANNUAL BUSINESS MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 8th November, 1920.*

THE PRESIDENT, DR. H. L. BRONSON, in the chair. Other members present: DR. J. CAMERON, D. J. MATHESON, PROF. D. S. McINTOSH, DR. A. H. MacKAY, PROF. C. B. NICKERSON, DR. D. FRASER HARRIS, DR. S. G. RITCHIE, DR. J. H. L. JOHNSTONE, E. W. TODD, DR. F. W. RYAN, DR. B. R. COYSH, F. C. CHURCHILL (Wolfville), P. R. COLPITT and H. PIERS.

THE PRESIDENT opened the session with remarks on the progress of the Society during the past year. He referred to the greatly increased cost of printing the Transactions and to the decision arrived at by the Council at its meeting of 13th October, that first right to publication would be given to papers dealing with local natural science, and second place would be given to other classes of scientific work by active members residing in Nova Scotia. The Council had also decided to exercise its right to have abstracts made of papers, if necessary. He also referred to the loss the Society had sustained through the death of its past-president, DR. EBENEZER MACKAY, on 6th January, 1920, and of DR. A. P. REID, on 26th February, 1920.

The Treasurer, MR. MATHESON, presented his financial report for the year ended October 1920, showing that the receipts were \$1,939.48, the expenditures \$1,225.15, and the bal-

ance in hand \$714.33 (in current account), while the balance to credit of the reserve fund was \$130.49, and the permanent endowment fund, invested in Maritime Telephone and Victory bonds, was \$1,500.—The report was received and adopted.

The Librarian's report was presented by MR. PIERS, showing that 1,459 books and pamphlets had been received through the exchange-list during the calendar year 1919. The total number of books and pamphlets received by the entire Provincial Science Library (with which that of the Institute is incorporated) for the same year was 1,624. The total number in the Science Library on 31st December, 1919, was 62,514. Of these, 45,849 belong to the Institute, and 16,665 to the Science Library proper. 132 books were borrowed in 1919, besides many consulted in the Library. No binding or purchasing had been done by the Library directly, there still being no grant at its disposal.—The report was received and adopted.

The following were elected officers for the ensuing year (1920-21):

President—PROF. JOHN CAMERON, M.D., D.Sc., F.R.S.E., *ex-officio* F.R.M.S.

First Vice-President—PROF. CARLETON BELL NICKERSON, M.A.

Second Vice-President—FREDERICK C. CHURCHILL (Wolfville).

Treasurer—DONALD J. MATHESON, B.Sc.

Corresponding Secretary—PROF. DONALD SUTHERLAND MCINTOSH, M.S.C.

Recording Secretary and Librarian—HARRY PIERS.

Councillors without office—ALEXANDER H. MACKAY, LL.D., F.R.S.C.; PROF. D. FRASER HARRIS, M.D., D.Sc., F.R.S.S. E. & C.; E. CHESLEY ALLEN; STEPHEN G. RITCHIE, B. A., D.M.D.; JOHN H. L. JOHNSTONE, M.Sc., Ph.D., M.B.E.; WILLIAM W. WOODBURY, B.Sc., D.D.S.; and PROF. HOWARD L. BRONSON, Ph.D., F.R.S.C.

Auditors—PARKER R. COLPITT; BASIL R. COYSH, D.D.S.

The retiring President thanked DR. MACKAY (editor), the Treasurer, the Recording Secretary and other members for their support during his term of office.

A vote of thanks was presented to DR. BRONSON for the able manner in which he had occupied the chair during his presidency.

FIRST ORDINARY MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 8th November, 1920.*

The first ordinary meeting was held on the conclusion of the annual business meeting. THE PRESIDENT, DR. CAMERON, in the chair.

FREDERICK C. CHURCHILL, of Wolfville, read a paper entitled, "Evidence of Elevation of the Sea Coast as Shown by Fossil Deltas near Wolfville, N. S." (See Transactions, p. 137). The subject was discussed by PROF. McINTOSH, DR. MACKAY, MR. PIERS and MR. TODD.

SECOND ORDINARY MEETING.

*Munro Room, Dalhousie College, Carleton St.,
Halifax, 17th January, 1921.*

THE PRESIDENT, DR. CAMERON, in the chair, and a large audience present, including HIS HONOR THE LIEUT.-GOVERNOR.

It was reported that the following had been elected ordinary members on 1st December: PROF. R. C. EASSON, PROF. JAMES ARTHUR DAWSON, Ph.D., PROF. HUGH PHILIP BELL, M.Sc.; EARLE FORRESTER WHYTE, and CHARLES ALEX. MACKAY, B.A., all of Dalhousie University.

On motion of MR. PIERS, seconded by DR. MACKAY, it was resolved that the Nova Scotian Institute of Science learns with deep regret of the death of its member, WALTER HENRY PREST, which took place at Halifax on Christmas Day, 1920, at the age of sixty-four years. Mr. Prest, through uncommon native talent and persistent study in the library and in the field, became a geologist of marked ability, being particularly an authority on the Gold Measures and Glacial Geology of Nova Scotia, on which subjects he published many notable papers.

He was also an enthusiastic student of Anthropology, as well as interested in scientific subjects in general. He joined the Institute in November 1894, and in November 1900 was elected a corresponding member in recognition of his services.

THE PRESIDENT delivered a popular lecture on "The Civilization and Culture of Ancient Egypt," illustrated by lantern-slides. On motion of HIS HONOR, THE LIEUT.-GOVERNOR, the thanks of the meeting were conveyed to the lecturer.

THE PRESIDENT then invited the audience to partake of refreshments in an adjoining room.

THIRD ORDINARY MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 14th February, 1921.*

THE PRESIDENT, DR. CAMERON, in the chair.

DR. BRONSON reported for the committee on popular lectures that DRS. NICHOLLS and DAWSON had consented to give lectures.

FREDERICK C. CHURCHILL, Wolfville, read a paper on "Probable Changes in the Drainage of the Black and Gaspereaux Rivers, Kings Co., N. S." (See Transactions p. 141). The subject was discussed by DR. MACKAY, PROF. MCINTOSH, and MR. PIERS.

MR. PIERS then read chapters on the Micmac Indians, their habits, folklore, and anecdotes regarding them, from an unpublished lecture, entitled "In Evangeline's Land: Reminiscences of the Country and of the Indians," written by the late MAJOR-GENERAL CAMPBELL HARDY, of Dover, England, author of "Forest Life in Acadia," and an original member of the Institute.

FOURTH ORDINARY MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 14th March, 1921.*

THE PRESIDENT, DR. CAMERON, in the chair.

It was announced that HUGH W SCHWARTZ, M. D., Halifax, had been elected a member on 3rd March.

PROF. ALBERT G. NICHOLLS, M.D., D.Sc., Dalhousie University, delivered a popular lecture on "Insects as Vectors of Disease," illustrated by lantern-slides and microscopical demonstration.

FIFTH ORDINARY MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 18th April, 1921.*

THE PRESIDENT, DR. CAMERON, in the chair.

A paper by CHARLES ALEX. VICKERY, B.A., Dalhousie University, entitled "The Effect of Thermoluminescence on Electrical Conductivity," was read by title.

PROF. JAMES A. DAWSON, Ph.D., Dalhousie University, delivered a popular lecture on "Some Problems in Protozoology," illustrated by lantern-slides. The subject was discussed by the PRESIDENT, DR. JOHNSTONE, E. C. ALLEN, DR. FRASER HARRIS, PROF. BELL and PROF. NICHOLLS.

SIXTH ORDINARY MEETING.

*Physiological Lecture Room, Dalhousie College, Carleton St.,
Halifax, 9th May, 1921.*

THE PRESIDENT, DR. CAMERON, in the chair.

It was reported that PROF. WALTER PERCY COPP, B.Sc., Dalhousie University, had been elected a member on 28th April.

EARLE F. WHYTE, B.A., Dalhousie University, read a paper entitled "A Study of the Extraction of Potash from Orthoclase Feldspar, by Carbon Dioxide and Sulphur Dioxide." (See Transactions, p. 145). The subject was discussed by the PRESIDENT, PROF. NICKERSON, DR. JOHNSTONE, MR. TODD, PROF. McINTOSH and MR. PIERS.

A paper by DR. A. H. MacKAY, "Phenological Observations, Nova Scotia, for 1920," was read by title. (See Transactions, p. 153.)

THE PRESIDENT reported that a letter had been written to the HON. E. H. ARMSTRONG, Minister of Public Works and Mines, requesting that the annual grant to the Institute might be increased in order to help meet the much greater expense of printing its Transactions at the present time. In his reply dated 7th May, Mr. Armstrong regretted to say that owing to the very many claims upon the revenue this year, they were unable to increase the appropriation for the Institute.

The following were appointed a committee on popular lectures for the next season: DR. HARRIS, PROF. NICKERSON and DR. RITCHIE.

HARRY PIERS,

Recording Secretary.