

PROCEEDINGS OF MEETINGS

Session 1968-1969

Meetings and communications during the year were as follows.

1st Ordinary Meeting, October 15, 1968

"The evolution of hydrofoils for the open-seas craft H.M.C.S. Bras d'Or" by M. Eames, Defence Research Establishment (Atlantic).

2nd Ordinary Meeting, November 12, 1968

"The Arctic white whale: general biology and tagging experiments" by P. F. Brodie, Dalhousie University,

"The use of small submarines in ecological research" by K. H. Mann, Fisheries Research Board – Halifax Laboratory,

"Derivatives of phytol: occurrence and biochemistry" by R. G. Ackman, Fisheries Research Board – Halifax Laboratory.

3rd Ordinary Meeting, December 9, 1968

"The effects of bark moisture on the development and survival of a species of bark beetle" by G. E. Beanlands, Dalhousie University,

"Subatomic particles" by D. Kiang, Dalhousie University.

4th Ordinary Meeting, January 13, 1969

"Why is plutonium?" by G. T. Meaden, Dalhousie University.

5th Ordinary Meeting, February 10, 1969

"Visual image processing by machine and by man" by D. A. Winters, N. S. Technical College.

6th Ordinary Meeting, March 10, 1969

"Adaptive predictive control systems" by D. J. Chaisson, Defence Research Establishment (Atlantic),

"The wandering of the boreal forest" by J. C. Ritchie, Dalhousie University.

1st Extraordinary Meeting, March 24, 1969 (jointly with St. Mary's University)

"Industrial melanism" by E. B. Ford, Oxford University.

7th Ordinary Meeting, April 7, 1969 (jointly with the Valley Chapter)

"Moult hormones of the lobster, yem tree and house fly" by M. Gilgan, Fisheries Research Board – Halifax Laboratory,

"Observations on the role of entomologists in India" by F. T. Lord, Agricultural Research Station, Kentville, N.S.

2nd Extraordinary Meeting, April 21, 1969

"Man's antiquity in Africa" by H. B. S. Cooke, Dalhousie University.

8th Ordinary Meeting, May 12, 1969

"Cellular events in the development of an insect virus" by E. L. Drake, Dalhousie University,

"Structure and mechanical properties of electro-deposited nickel-iron alloy foil" by R. D. MacInnes, N. S. Technical College,

"Automatic analysis of the foetal electro-cardiogram" by H. Wolf, Dalhousie University.

108th Annual General Meeting, May 21 1969

The President, Dr. J. H. Greenblatt, was in the chair and delivered the following address.

In preparing this report of the highlights of the past season, I read those prepared by the previous four presidents contained in Volume 26, part 3, of our proceedings and I was impressed by the fact that the central problem dealt with by past councils remains relatively the same in spite of the considerable effort devoted to its solution. This is the problem of making our Institute an effective forum of communication between the different people engaged in scientific work in the area and between them and the general public. In the presidential report of 1965-66, Dr. Masson presented statistics of attendance at meetings over a 25-year period starting in 1941 and he pointed out that the average over the years was roughly 40, having been as low as 20 at the start of the period and peaking at 55 in the mid-fifties. When these figures are viewed against the large and continual increase in numbers of people engaged in scientific work in the area during the same period, it is easy to see why the councils of the Institute have spent so much time reflecting on the purpose and worthwhileness of our organization and how it can be more effective, etc.

For the past few years we have broadly followed the policy of stressing quality and greater generality in our programs rather than quantity and specialization with the hope that such an approach would produce an interesting program. We have also been on the lookout for papers that would be of interest to a wider, more public audience. In the eight ordinary meetings we held this past year, one of which was with the Valley Chapter, and the two extraordinary meetings, I believe we have accomplished our objectives. Attendance at our regular meetings ranged from 19 to 35 and was much higher for our two extraordinary meetings. Our overall average was above the figure of 40 from Dr. Masson's graph. The success of our extraordinary meetings indicates the greater interest manifested in more general topics and this is confirmed by the large public attendance at our most successful meeting, the presentation by Dr. Cooke, where attendance was over 200.

The total number of papers presented during the year, including the extraordinary meetings, was 17 and the fields represented were: Engineering 4, Chemistry 2, Physics 1, Bio-Physics 1, Biology 5, Bio-Chemistry 3, and Paleontology 1.

At the 107th business meeting a revised draft of our constitution and by-laws was presented for approval but ran up against the formidable analytical abilities of those present at the meeting, with the result that the draft was returned to the committee for rewording. Your present council, after a short wrestle with the problem, decided to engage the advice of an

expert and sought advice from Professor Donald of Dalhousie University Law School on the matter. Professor Donald informed us that, as we were an incorporated body, only the original act of incorporation belonged in a constitution and all other matters were properly by-laws. In the version submitted for your approval this evening, Professor Donald has gathered together the material of our old constitution and by-laws in an orderly and businesslike set of by-laws using intent and flexibility as guiding principles.

A significant milestone of the year was the signing of an agreement with Dalhousie University to properly house and look after the Institute's collection in the Dalhousie Library. The outline of the agreement was presented to the members of the Institute at the 107th business meeting and the final agreement incorporated suggestions of the meeting and some changes suggested by the University. The agreement contains a saving clause by which the Institute can terminate the agreement when and if it desires. While the collection is in the Dalhousie Library it will be properly identified as a holding of the Institute.

During the year the proceedings of meetings over the past four years were published as Volume 26, part 3, of our proceedings. Our editor, Dr. E. G. Young, also successfully negotiated for the printing and publishing of Part II of the Flora of Nova Scotia, including a substantial sale of the published Flora to the Nova Scotia Museum. The Province of Nova Scotia had expressed considerable sympathy with this project but to date the special grant we have asked for to finance Part II of the Flora has not yet been granted. However, at the moment the Flora is at the printers and as a result of our editor's management of the project we may cover our financial commitment from existing funds and the museum sale.

I would like to conclude my remarks by expressing to the council my pleasure in working with them and my appreciation of their support. I would particularly draw your attention to the efforts of our secretary and treasurer who have done a considerable amount of work on our behalf. I also want to thank the general membership for their interest and support and I hope this interest will continue in the forthcoming year.

The Treasurer, M. Falk reported

Receipts	10,336.90
Expenditures	1,032.82
Permanent Fund	529.62
Total cash assets as o May 15, 1969	\$12,798.13

Receipts include items of grants of \$1,500 from the Provincial Government and \$8,000 from the N.S. Museum towards the cost of publication of Vol. 26, Part 4 of the Proceedings.

The Editor, E. G. Young, reported the publication of Volume 26, part 3, in December 1968, and the receipt of the complete manuscript of the Flora of Nova Scotia, Part II, by A. E. Roland and E. C. Smith. The latter will be published as Volume 26, part 4, which is presently in press.

The Librarian, Miss E. M. Campbell, reported the transfer of some holdings of the Institute to the new building of the N.S. Research

Foundation in Dartmouth and of other material to Dalhousie University where it is being processed.

Officers and others elected for the session 1969-70 were

President	A. C. Neish
First Vice-President	M. L. Cameron
Second Vice-president	W. E. Jones
Secretary	N. Cuthbertson
Treasurer	M. Falk
Editor	E. G. Young
Council — R. G. Ackman, J. E. Blanchard, A. G. McInnes, K. H. Mann, D. W. Russell and P. J. Wangersky	
Auditors	J. E. Stewart, J. R. Dingle

PROCEEDINGS OF MEETINGS

(Valley Chapter 1968-1969)

1st Ordinary and Annual Business Meeting, October 7, 1968

Officers elected for the year 1968-69 were

President	Miss H. J. Herbert
Vice-president	J. Basaraba
Secretary	K. Harrison
Treasurer	Maria Rostocka
Councillor	K. Stewart

"Problems in the evolution of the Basidiomycetes: The *Hydnaceae*" by K. A. Harrison.

Special Meeting, October 28, 1968 (jointly with Acadia University)

"Long range transport in plants" by D. C. Spanner, Bedford College, London, England.

2nd Ordinary Meeting, December 2, 1968

"The cocoa industry of West Africa" by A. D. Pickett. Honorary membership in the Institute was awarded to D. U. Hill, J. F. Hockey, A. D. Pickett and R. W. Tufts for long and distinguished service.

3rd Ordinary Meeting, January 6, 1969

"Fertility and hatchability of hen's eggs" by F. G. Proudfoot,

"Organization and structure of international biological programmes" by W. T. A. Neilson.

4th Ordinary Meeting, February 3, 1969

"Chemical fossils: the most ancient hydrocarbon in rock" by G. R. Stevens,

"On relationships of sea slugs, science and a sabbatical" by S. J. Bleakney.

5th Ordinary Meeting, March 3, 1969

"Anterior lung biopsy in the diagnosis of obscure pulmonary disease" by J. J. Quinlan,

"A demonstration of atypical Mycobacteria and Mycobacterian tuberculosis" by Helen Morse and J. E. Hiltz.

6th Ordinary Meeting, April 7, 1969 (jointly with parent society)

"Moulting hormones of the lobster, yem tree and house fly" by M. Gilgan,

"Observations on the role of entomologists in India" by F. T. Lord.