

PROCEEDINGS OF MEETINGS
Session of 1957-58.

(Meetings were held in the Medical Sciences Building, Dalhousie University).

96th Annual Business Meeting; October 21, 1957.

The meeting was presided over by the President, Dr. J. G. Aldous. Twenty members were present.

The President addressed the Institute. His address appears on page 000 of the Proceedings. The Officers presented their reports.

The Treasurer, J. R. Dingle, reported:

Receipts	\$ 951.61
Expenditures.....	292.76
Invested funds.....	2,000.00
Bank balance, October 1957.....	\$2,016.10

The Corresponding Secretary, P. L. Hoogland, reported:

The Institute's exchange mailing list was brought up-to-date during the current year. This was possible upon the completion of the check on the addresses in the list, carried out in the past three years. As a result, the total number of addresses dropped by about 17 percent and it now stands at 444. (This includes six new exchanges, started in 1957). All these have informed us that they are receiving our Proceedings, and the majority are sending us their publications in return.

Besides the correspondence regarding the mailing list, there was the regular business of this office: a number of reprints of papers was sold, as well as several copies of single issues of the Proceedings.

The Editor, L. B. Macpherson, reported:

Volume 24, Part 2, of the Proceedings is nearing publication. The greater part of this issue will consist of a monograph of The Forest Aphids of Nova Scotia, by K. D. Archibald. The page proof of this material is now in the hands of the author and after publication before the end of this year should prove to be of scientific and economic importance.

Manuscripts are also on hand to warrant starting on Part 3 as soon as Part 2 has been published.

The Librarian, Miss E. M. Campbell, reported:

Since the publication of the *Union List of Scientific Serials in Canadian Libraries*, there have been more requests for interlibrary loans of Institute material in the Atlantic Provinces and further afield.

Lack of space, a perennial complaint, prevents us from removing more of the journals from storage space, but the checking and sorting is still going on and with a small effort, all materials can be made available.

The number of publications coming to the Library, continues to increase, as societies issue more reports and reprints in addition to their regular journals. This year, after discussion in Council, it was decided to send to the Department of Chemistry, University of Montreal, the issues from 1947 to date of *Bulletin Analytique* (Abstracts from the Documentation Centre-Paris). This publication consists of abstracts from scientific journals, and covers much the same field as does *Chemical Abstracts* and *British Abstracts*. It was decided that because of growing lack of space, and the fact that it was not checked for the Foundation's Reference files, as are many other publications, it would be a wise and generous gesture to make it available to a library who would have more use for a French publication. Dr. Piche, Director of the Department of Chemistry, when he attended meetings at the Fisheries Research Board in Halifax, expressed interest in the French Abstracts when he visited the Foundation's library.

The Royal Society of Canada Transactions, for which the Foundation paid the last few years, is once again on an exchange basis with the Institute, although we pay a small amount to get the bound volume.

The work of preparing volumes for binding has been going on, but no binding has been done the last year, due to the illness of the only binder in the city. As we have carried on a fairly extensive binding program for the last ten years, a lapse of one year, which we can easily make up, will not affect the library too much.

We are still working on standardized entry forms of the Institute's holdings, for a Kardex system. On its completion we shall run off a list of titles received for members of the Institute.

Officers elected for the year 1957-58 were:

President.....	Dr. J. G. Aldous
First Vice-President.....	Dr. J. R. Dingle
Second Vice-President.....	Dr. W. J. Archibald
Treasurer.....	Dr. A. N. O'Neill
Corresponding Secretary.....	Dr. P. L. Hoogland
Recording Secretary.....	Mr. H. S. Heaps
Editor.....	Dr. L. B. Macpherson
Librarian.....	Miss E. M. Campbell
Council.....	Dr. J. H. Greenblatt
	Dr. A. D. Macdonald
	Dr. C. R. Masson
	Dr. J. G. Retallack
	Dr. C. E. vanRooyen
Auditors.....	Dr. H. L. Bronson
	Dr. H. D. Smith

New Members:

During the year the following new members were proposed and elected by Council; Ordinary: A. T. Stewart, C. G. I. Friedlander, G. C. Milligan, Marscha Gropuzzo, L. G. E. Bell, G. O. Langstroth, B. Bolto, M. Coll-Palagos, G. A. Collins, R. M. Frye, F. W. Fyfe, V. S. Gaid, N. J. Hopkins, K. Morgan, A. E. Steeves, R. V. Webber, O. H. Wheeler, M. Sundarim, W. D. Leach.

Student Members: E. E. Laufer, M. G. Calkin, D. J. Keenan, G. F. O. Langstroth, J. Blum, J. Holland, Nancy Lane, C. Marshall, Mary MacNutt, C. Perry, A. Samod, I. MacQuarrie, T. P. Forrest, K. Warren, N. P. Patterson.

1st Ordinary Meeting, November 18, 1957.

This was a joint meeting with the Valley Chapter and was held in Halifax.

Papers: 1. "The Relation of Respiratory Tolerance to the Presence of Haemoglobin in Goldfish Blood," by E. H. Anthony; 2. "Vibration Spectrum of Vanadium by Newton Spectrometry", by A. T. Stewart and B. N. Brockhouse; 3. "New Field Techniques in Petroleum and Mineral Exploration", by H. L. Cameron.

2nd Ordinary Meeting, December 9, 1957.

Papers: 1. "The in vitro Conversion of C¹⁴-Acetate and C¹⁴-Cholesterol to Adrenocortical Steroids", by E. G. Bligh; 2. "The Separation of Signals from Noise by Means of a Linear Filter", by M. R. McKay and H. S. Heaps; 3. "The Enterolipomieron", by C. B. Weld.

3rd Ordinary Meeting, January 13, 1958.

Papers: 1. "Photosynthesis in Marine Algae", by R. G. S. Bidwell; 2. "The Influence of pH on the Intracellular Concentration of Citrate in Yeast", by J. G. Aldous and G. C. Jollymore; 3. "A Simple Gas Chromatography Apparatus and its Application to Analysis of the Higher Fatty Acids", by R. G. Ackman.

4th Ordinary Meeting, February 10, 1958.

Papers: 1. "Effect of Agar on the Growth of Bacteria", by W. Yaphe; 2. "Pulse Shapes Produced by Underwater Acoustic Projectors", by A. Mohammed; 3. "On the Extraction of Myosin from Cod Muscle with Potassium Iodide Solutions", by J. R. Dingle.

5th Ordinary Meeting, March 10, 1958.

Papers: 1. "The Use of Nuclear Transfer Techniques in Radiation Studies", by M. J. Ord; 2. "Physical Oceanography of the Coastal Waters off Halifax", by R. E. Banks; 3. "Protein and Carbohydrate Metabolism in Vitamin B₁₂ Deficiency", by W. W. Hawkins, Verna G. Leonard, and Carol M. Dicks.

6th Ordinary Meeting, April 14, 1958.

Papers: 1. "The Chemical Composition of Seawater in the Vicinity of the Atlantic Provinces of Canada", by E. G. Young and W. M. Langille; 2. "Observations on the Development of *Ciona intestinalis*", by L. G. E. Bell; 3. "Formation of Free Fatty Acids in Frozen Fish", by W. J. Dyer, D. I. Fraser, and E. G. Bligh.

Extraordinary Meeting, April 18, 1958.

Dr. Charlotte Auerbach, Reader at the Institute of Animal Genetics, Edinburgh, addressed the Institute on "The Present State of Chemical Mutation Research."

Dr. Auerbach's address formed one of the preliminary events sponsored by the Genetics Society of Canada in recognition of the meeting of the Tenth International Genetics Congress held in Montreal, August 20 to 27.

7th Ordinary Meeting, May 12, 1958.

Papers: 1. "A Recent Volcanic Ash Deposit in the Yukon Territory", by A. R. Berger; 2. "Correlations Affecting Regeneration and Reactivation in *Splachnum Ampullaceum* (L) HEDW", by I. G. McQuarrie and K. von Maltzahn.

VALLEY CHAPTER PROCEEDINGS 1957-58

The Valley Chapter held six meetings, alternately in Wolfville and at the Science Service Laboratory, Kentville, with the last meeting at the N. S. Sanatorium.

Annual Business Meeting; Oct. 27, 1957.

The meeting was held in the Biology Building of Acadia University. The president, Prof. R. H. Magarvey, presided.

Officers elected for the year:

President.....	Mr. A. D. Pickett
Vice-President.....	Dr. E. S. Hansen
Secretary.....	Mr. J. S. Erskine
Treasurer.....	Mr. R. H. MacNeill
Council Member.....	Mr. K. A. Harrison

1st Meeting, Dec. 2nd, 1957.

Papers: "The Partial Excavation of Nine Prehistoric Camp-sites in the Southwestern Part of Nova Scotia", by J. S. Erskine.

2nd Meeting, Nov. 18th, 1957.

Joint meeting parent Society.

3rd Meeting, Jan. 6th, 1958.

Papers: 1. "Low Temperatures as Mortality Factors for some Orchard Arthropods", by A. W. MacPhee; 2. "A Search for Haploid Sporophytes of the Cultivated Cucumber", by

L. E. Aalders; 3. "Variations in Population Density of the Acadian Field Mouse in Annapolis Valley Orchards", by H. T. Stultz.

4th Meeting, Feb. 3, 1958.

Papers: 1. "Memory Deterioration of the Ageing Process", by Ralph Dent; 2. "Color of Predaceous Mites After Feeding Upon Mite Prey in the Laboratory", by June Herbert.

5th Meeting, March 3, 1958.

Papers: 1. "Remarks on the Influence of Insects on the Floristic Composition of Grassland", by C. J. S. Fox; 2. "Survey of Wild Strawberries of Nova Scotia for Virus Infection", by Joan McGowan; 3. "Pleistocene Geology of the Tusket Map Sheet, Yarmouth County", by R. H. MacNeill.

6th Meeting, April 9, 1958.

Papers: 1. "Cystic Diseases of the Lung", by H. W. Holden; 2. "Farmers' Lung", by D. J. Quinlan.