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# SUPPLEMENTARY REPORT

To the Proceedings of the

# British Columbia Entomological Society



APRIL, 1916

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Victoria, B. C.  
The Thos. R. Cusack Presses  
1916

# BRITISH COLUMBIA ENTOMOLOGICAL SOCIETY

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## *Regular Annual Meeting, 1916*

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### BUSINESS TRANSACTIONS.

The Fifteenth annual meeting of the Entomological Society of British Columbia was held in the Provincial Museum, Parliament Buildings, Victoria, B. C., on March 11th, 1916. Among those present were the following: Messrs. E. M. Anderson, J. R. Anderson, E. H. Blackmore, Dr. Seymour Hadwen, R. S. Sherman, Lionel E. Taylor, H. Thornber, R. C. Treherne, E. W. White, G. E. Wilkerson, Tom Wilson, W. Hugh, A. J. Crocker, G. E. Parham, A. G. Brown, W. Downes, D. Todd, J. A. Brydon, F. Kermode and several visitors.

The President, Mr. G. O. Day, Duncan, B.C., was unfortunately ill at the time of the meeting, hence was unable to occupy the chair

The Vice-President for the Coast, Mr. E. H. Blackmore, therefore was asked to open the meeting and to conduct the business of the Society and its proceedings.

**Mr. Blackmore** (Vice-President): I am very glad to accept the honour of presiding at this meeting. We are all sorry, and I am in particular, to hear of the indisposition of our President, Mr. Day, and we all sincerely hope he will soon recover. I am sure I am expressing the feelings of the Society as a whole when I say that we are fortunate in having such a President as Mr. Day. His work with the Society during the past three years has been of exceptional value, and we are indebted to him to a very large extent, for the excellent position and standing we are in as a Society.

Our Secretary, Mr. Treherne, is, I see, first on the programme, and will give us the business details that have engaged his attention during the past year and I fancy, that from his remarks you will gain an impression of the excellent position we are in. I will now ask our Secretary to bring up the first order of business.

**Mr. Treherne** (Secretary): The first order of business is placing this annual meeting in order. If you refer to our By-Laws you will see that our regular annual meeting should be held in January of each year. This ruling, however, we could not follow this year. I took the matter up with the Advisory Board, and received their unanimous consent to postpone the meeting until suitable. Hence a resolution placing this meeting in order would be the first item of business.

**Resolved** that this meeting be approved and considered in order. Movers—Parham, Sherman.—Carried.

**The Secretary:** The next item of business is that relative to the finances. I am pleased to say we are in excellent standing financially. I take pleasure in presenting the following statement. I have included a complete statement of the expenses of the Society from its resuscitation, in 1911, until the present, for reference.

## FINANCIAL STATEMENT

December 9, 1911 (Reorganization Meeting)

1912.

	Credit.	Debtor.
Members Subscriptions (Jan. 31, 1912).....	\$ 22.00	
Postage Stamps .....		\$ 2.25
Post Cards .....		.10
Stationery .....		.90
Printing Programme .....		9.25
Janitor, Aberdeen School, Annual Meeting.....		3.50
Subscription to "Canadian Entomologist".....		10.50

1913.

Private Subscription Loan .....	60.00	
Members Subscription (Jan. 31, 1913).....	70.00	
Printing Programme .....		9.25
Printing 1912 Report .....		115.00
Postage .....		8.75
Stationery .....		.60
Subscription to "Canadian Entomologist".....		34.50
Engraving Map of B. C.....		3.20
500 Copies of Map printed.....		2.25
Print of Photo Group.....		.75
Copper Plate of Group for Report.....		7.20

1914.

Semi-Annual Meeting Expenses (Vernon).....		15.00
Printing Circulars .....		10.25
Stationery .....		7.00
Subscriptions .....	55.00	
Provincial Government Grant .....	350.00	
Paying off Loan and Deficit (R.C.T.).....		115.00
Semi-Annual Meeting, Expenses (Kelowna) (H.H.C.).....		30.40
Printing Circular (Evans and Hastings).....		4.00
Express, Stamps, Stationery, etc. (R.C.T.).....		25.00
Electrical Fittings (Annual Meeting).....		2.30
Lantern Slides .....		7.50
Engravings for Report .....		15.25

1915.

Stenographer (Annual Meeting) .....		\$ 10.00
Lantern Slides (Bishop and Christie).....		9.05
Printing, Bulletin 5, (News Advertiser).....		136.25
Provincial Government Grant .....	\$250.00	
Arranging Library (G. H. U.).....		6.00
Express, Stamps, etc. (R. C. T.).....		8.00
Subscription to "Canadian Entomologist".....		33.00
Subscriptions .....	66.00	

	\$873.00	\$642.00
Balance in Bank March 1st 1916.....	\$231.00	

1916.

Stenographer (Annual Meeting) .....		\$ 11.00
Library Expenses (W. Hugh).....		100.00
Express, \$1.55; Freight, 68c; Stamps, \$9.00; Stationery, \$1.00; Janitor, \$2.00; Typewriter Rent, \$4.00; Mailing Bulletins \$2.00 (R. C. T.).....		20.23
Stenographer (letters re meeting).....		6.54
Subscriptions to "Canadian Entomologist".....		15.25
Printing Programmes (T. A. Hibben).....		9.00
Members' Subscriptions (to date, April, 1916).....	\$19.00	
Engravings (Cleland and Dibble Engraving Co.).....		38.00
To Stenographer, typewriting Syrphid paper.....		18.30
	\$231.00	\$218.32
Balance .....	\$12.68	

### MEMBERSHIP.

The membership during the past year has decreased from 90 to 66. It is probable that the membership will drop still further this year, owing in a great measure to the war situation. Approximately 15 of our members have joined the colours, and a number have withdrawn, owing partly to financial conditions and partly because the kind of information we are able to offer did not appeal to them.

I am glad to say, however, that a number of new members are joining; in fact, the general health of the Society is yearly improving, so far as entomological enthusiasts are concerned. As a Society, I think we should feel pleased that the membership is becoming more stable and the quality improving.

I regret to say, however, that we are in trouble with our parent Society in the East. It is probable that some of our members have not been receiving their publications for fee received, but I am taking steps now to see that the matter is cleared up; that back membership is settled, and that from now on we may make our situation clear with the Ontario Entomological Society. As I understand the situation, our Society here received its members and their dues during the first few months of the year. This list of members is then forwarded to Ontario with the enclosure of a sum of money equivalent to 50c per member. The following year our list of members, as the Society is in a formative condition, may change; new members are elected and some old members withdrawn. Hence the list forwarded to Ontario may vary from the previous list. So far as our Society goes, those members whose names are not included on the list are withdrawn, and no longer remain as members. However, as I understand the situation, this was not understood in Ontario. The "Canadian Entomologist" being run as a magazine, and therefore run on a different plan to our Society and other Branch Societies, maintains a continuous list of members. Therefore I believe the magazine has been sent to men who really are not on our list as members for the specific year, but were maintained on the Ontario list. As the list changes you can understand that some names have gone with arrears. It is not the fault of the members. It is a joint misunderstanding between myself, as Secretary to this Society, and Mr. A. W. Baker, Secretary of the Ontario Society.

In a recent letter covering these points, I have now made it clear how our Society is run, and that the list I file in the early part of each year following our Annual Meeting covers the members for that year, and all previous names are dropped. I have asked Mr. Baker to submit to me how many and what names are in arrears, and the extent of our obligation, and I trust that with your sympathy I shall be able to arrange matters from now on, on a satisfactory basis. It may mean the voting of \$20, tentatively speaking, from our funds to refund the "Canadian Entomologist."

**Mr. Treherne:** If it is the wish of the members to take up this matter now, I will put it to the meeting, otherwise I will continue with other business. (Matter left over.)

### THE LIBRARY.

I beg to submit a list of the books in our Library.

During the past summer I have been able to arrange the list of the books in our library. The library at the present time is at the Entomological Branch Laboratory, Agassiz. We have an upstairs space, which is devoted to the library. I have them arranged in cases, so that each bulletin is marked with blue pencil, the number corresponding to the list given here, so if anyone wishes any specific article he will be able to write for that number, and the Librarian will be able to go direct and mail it to him. Anybody who is working on any group, or wishes any book, can apply for it.

## KEY TO CLASSIFICATION OF BULLETINS

## Systematic

Lepidoptera, Nos. 1 to 54 inclusive.  
 Diptera, Nos. 55 to 81 inclusive.  
 Orthoptera, Nos. 82 to 99 inclusive.  
 Coleoptera, Nos. 100 to 111 inclusive.  
 Odonata, Nos. 111 to 121 inclusive.  
 Hymenoptera, Nos. 122 to 176 inclusive.  
 Miscellaneous, Nos. 177 to 216 inclusive.

## Economic

Nos. 217 to 344 inclusive.

## SYSTEMATIC ENTOMOLOGY

1. Butterflies, Descriptions of New American. Schauss, W., 1902.
2. Butterflies, Three Interesting, from Massachusetts. Clark, Austin Hobart, 1913.
3. Campometra, Nocturnal Moths of. Smith, John B., 1899.
4. Cochlidiidae, Species of. Dyar, Harrison G., 1907.
5. Cochlidian Moths. Dyar, Harrison G., 1905.
6. Coenympha, American Species. Skinner, Henry, 1900.
7. Colorado, Moths from. Dyar, Harrison G., 1902.
8. Cosmopteryx Hubner, American Moths of. Busck, August, 1906.
9. Crambid Moths, N. American. Kearfott, W. D., 1908.
10. Depressaria Haworth, Genus. Busck, August, 1912.
11. Euerythra, species of. Smith, John B., 1887.
12. Gelechiidae, American Moths of. Busck, August, 1903.
13. Geometrid Moths, S. American. Warren, William, 1906.
14. Geometrid, Genus Pero, Studies of. Grossbeck, John A., 1910.
15. Geometrid Moths, Descriptions of genera and species. Warren, Wm., 1908.
16. Lepidoptera, from E. Africa, Kashmir. Holland, H. J., 1895.
17. Lepidoptera, of E. Africa. Holland, H. J., 1896.
18. Lepidoptera, of the Kootenai. Dyar, Harrison G., 1904.
19. Lepidoptera, Early Stages of Japanese. Dyar, Harrison G., 1905.
20. Lepidoptera, chiefly from Mexico. Dyar, Harrison G., 1912.
21. Lepidoptera, New Species from Mexico. Dyar, Harrison G., 1910.
- 21a. Lepidoptera, New Species Chiefly from Mexico. Dyar, Harrison G., 1913.
22. Lepidoptera of Panaman Canal Zone. Dyar, Harrison G., 1914.
23. Microlepidoptera, from Panama New Genera and Species. Busck, August, 1914.
24. Moths, N. American, Some Life Histories. Dyar, Harrison G., 1900.
25. Moths, S. American. Warren, William, 1905.
26. Noctuidae, on Pacific Coast of N. America. Grote, 1875.
27. Noctuidae, of N. America. Smith, John B., 1887.
28. Noctuidae, Revision of some Taeniocampid Genera. Smith, John B., 1889.
29. Noctuidae of Temperate N. America (incl. genus Agrotis). Smith, John B., 1890.
30. Noctuidae, Species of Hadena referable to Xylophasia and Luperina. Smith, John B., 1891.
31. Noctuidae, Geneva Cucullia, Dicopsis, Xylomiges, and Morrisonia. Smith, John B., 1892.

32. Noctuidae. Smith, John B., 1894.
33. Noctuidae, Gen. Xylomiges, Xylina. Smith, John B., 1899.
34. Noctuidae, species Acontia. Smith, John B., 1900.
35. Noctuidae, Gen. Xylina. Smith, John B., 1900.
36. Noctuidae, A Hundred New Moths. Smith, John B., 1900.
37. Noctuidae, Spec. Mamestra. Smith, John B., 1901.
38. Noctuidae, Gen. Leucania. Smith, John B., 1902.
39. Noctuidae, some species hitherto referred to Genus Homoptera Boisduval. Smith, John B., 1908.
40. Noctuid Moths, Gen. Palindia and Dyomyx. Dyar, Harrison G., 1914.
41. Notodontidae. Neumoegen & Dyar, 1894.
42. Oecophoridae, Generic Revision of Family. Busck, August, 1908.
43. Saturnian Moths, Three New Species. Schauss, Wm., 1908.
44. Saturniid Moths, (larvae used as food by Indians). Aldrich, J. M., 1912.
45. Saturnian Moths in U. S. N. N. Dyar, Harrison G., 1913.
46. South American Moths. Dyar, Harrison G., 1905.
47. Syntomid Moths of S. Venezuela. Klages, Edward A., 1906.
48. Tineina, Superfamily, Moth of. Busck, August, 1900.
49. Tineid Moths from B. C. Busck, August, 1904.
50. Tineid Moths from S. Texas. Busck, August, 1906.
51. Tineid Moths, with Generic Table of Family Blastobasidae. Lord Walsingham, 1907.
52. Tineoid Moths, S. America. Descriptions of. 1911.
53. Tortricid Moths from N. Carolina. Kearfott, W. D., 1905.
54. Trichostibas, Genus, New Moths of. Busck, Aug., 1910.

#### DIPTERA

55. Agromyza, Flies of the Genus. Malloch, J. R., 1915.
56. Anthomyidae, Three New Species. Malloch, J. R., 1913.
57. Borboridae, New Species. Malloch, J. R., 1913.
58. Craneflies, sub. fam. Limnobiinae. Alexander, Chas. P., 1913.
59. Diptera, Western. Osten Sacken, C. R., 1877.
60. Diptera, Japanese. Coquillet, D. W., 1898.
61. Dipterous Insects from Puerto Rico. Coquillet, D. W., 1900.
62. Diptera in the U. S. N. M. Coquillet, D. W., 1901.
63. Diptera from Southern Africa. Coquillet, D. W., 1901.
64. Diptera, Systematic Arrangement of Families. Coquillet, D. W., 1901.
65. Diptera: from North America. Coquillet, D. W., 1902.
66. Diptera, Type Species of N. American. Coquillet, D. W., 1910.
67. Dipterous Insects, One New Genus, Eight New Species. Malloch, J. R., 1912.
68. Diptera, Two New Species. Malloch, J. R., 1913.
69. Empididae, N. American. Coquillet, D. W., 1896.
70. Fannia, Notes on Genus. Malloch, J. R., 1913.
71. Mosquitoes, of Coast region of California. Dyar, Harrison G., 1907.
72. Mosquitoes, of Saskatchewan. Knab, Fred'k., 1908.
73. Mosquitoes, from Tropical America. Dyar & Knab, 1908.
74. Mosquito Fauna of Panama. Busck, August, 1908.
75. Mosquitoes, American (New Species). Dyar & Knab, 1909.
76. Muscoid Flies, from Pacific Coast. Townsend, Chas. H. T., 1912.
77. Pipunculidae, Insects of the Family. Malloch, J. R., 1912.
78. Ptychopteridae, Revision of. Alexander, Chas. P., 1913.
79. Psychodidae (Moth-Flies). Knab, Fred'k., 1913.
80. Pseudodinia, Notes on Genus. Malloch, J. R., 1915.
81. Tabanidae (Gad-Flies) Gen. Stibasoma. Knab, Fred'k., 1913.

**ORTHOPTERA**

82. Acrididae, Found North of Mexican Boundary. Bruner, Lawrence, 1889.
83. Acrididae, Paraguayan, Synoptic List. Bruner, Lawrence, 1906.
84. Acridiidae, Two Neotropical Species. Rehn, Jas. A. G., 1908.
85. Acridiidae, Yale Peruvian Expedition. Bruner, Lawrence, 1913.
86. Acridiidae, Addenda to 86. Bruner, Lawrence, 1913.
87. Forbiculids and Blattids (Old World). Rehn, Jas. A. G., 1904.
88. Grasshoppers, Subf. Acridinae. Rehn, Jas. A. G., 1906.
89. Grasshoppers, Brazilian. Rehn, Jas. A. G., 1909.
90. Katydid, Three New Species, and Crickets from Costa Rica. Rehn, Jas. A. G., 1906.
91. Locustidae and Gryllidae (Paraguay). Caudell, Andrew Nelson, 1906.
92. Mantids, Studies in. Rehn, Jas. A. G., 1904.
93. Orthoptera, Two from U. S. Caudell, A. N., 1904.
94. Orthoptera, from S. Arizona. Caudell, A. N., 1905.
95. Orthoptera, Notes on Western. Caudell, A. N., 1908.
96. Orthoptera, African—Mantidae & Phasmidae. Rehn, Jas. A. G., 1912.
97. Orthopterous Insects, Nearctic. Caudell, A. N., 1913.
98. Orthoptera (Excl. Acrididae). Caudell, A. N., 1913.
99. Protoblattid, from lower Cretaceous. Evelyn Groebeck Mitchell, 1908.

**COLEOPTERA**

100. Barkbeetles, Genus Dendroctonus. Hopkins, A. D., 1909.
101. Cerambycidae and Scarabeidae. Linell, Martin L., 1896.
102. Chrysomelidae. Linell, Martin L., 1897.
103. Coleopterous Insects, Galapagos Is. Linell, Martin L., 1898.
105. Coleoptera, Fossil from Florissant. Wickham, H. F., 1913.
106. Curculionid Beetles, Tribe Anthonomini. Dwight Pierce, W., 1908.
107. Powder-Post Beetles, Fam. Lyctidae. Kraus, E. J., 1911.
108. Scarabeidae, N. American. Linell, Martin L., 1896.
109. Scolytid Beetles, Synonymy. Eichhoff, Wm., 1896.
110. Weevils, Studies of N. American. Dwight Pierce, W., 1909.
111. Weevils, Some of Economic or Biologic Importance. Dwight Pierce, W., 1912.

**ODONATA**

112. Dragon Fly Nymphs in U. S. N. M. Needham, Jas. G., 1904.
113. Dragon-Flies of Burma, Subf. Calopteryginae. Williamson, Edward B., 1904.
114. Dragonflies of Burma & Lower Siam, Subfamilies. Cordulegasterinae, Chlorogomphinae and Gomphinae. Williamson, E. B., 1907.
115. Dragon-Flies of Mississippi Valley. Wilson, C. B., 1907.
116. Dragon-Flies of Kentucky and Tennessee. Wilson, C. B., 1912.
117. Odonata, E. Africa. Calvert, Philip P., 1895.
118. Odonata, E. Africa. Calvert, Philip P., 1895.
119. Odonata, Genus Macromia. Williamson, Edward B., 1909.
120. Odonata, Bumping Lake, Washington, Kennedy, C. H., 1913.
121. Wing Venation, Genealogic Study. Needham, J. G., 1903.

**HYMENOPTERA**

122. Augochlora, Genus, West Indies. Cockerell, T. D. A., 1910.
123. Bees in U. S. N. M., Some Descriptions. Cockerell, T. D. A., 1909.
124. Bees, in U. S. N. M., 1. Cockerell, T. D. A., 1911.
125. Bees, in U. S. N. M., 2. Cockerell, T. D. A., 1911.

126. Bees, Eucerine, Names applied to. Cockerell, T. D. A., 1912.
127. Bees, Genera, Lithurgus, Anthidium & allies. Cockerell, T. D. A.
128. Braconidae, in U. S. N. M. Ashmead, W. H., 1888.
129. Encyrtinae, Insects of, with branched antennae. Howard, L. O., 1892.
130. Hymenoptera, from Philippine Islands. Ashmead, W. H., 1904.
131. Hymenoptera, from Philippines. Ashmead, W. H., 1905.
132. Hymenoptera, from Philippines (additions). Ashmead, W. H., 1905.
133. Hymenoptera, (new) from Philippines. Ashmead, W. H., 1905.
134. Hymenoptera, from Japana. Ashmead, W. H., 1906.
135. Hymenoptera, from Philippines. Crawford, J. C., 1910.
136. Hymenopterous Insects, from Philippines. Rohwer, S. A., 1910.
137. Hymenopterous Insects, from Formosa. Rohwer, S. A., 1911.
138. Hymenoptera, Descriptions of New, (1). Crawford, J. C., 1911.
139. Hymenoptera, Descriptions of New, (2). Crawford, J. C., 1911.
140. Hymenoptera, Descriptions of New, (3). Crawford, J. C., 1911.
141. Hymenoptera, Descriptions of New, (4). Crawford, J. C., 1912.
142. Hymenoptera, Descriptions of New, (5). Crawford, J. C., 1912.
143. Hymenoptera, Descriptions of New, (8). Crawford, J. C., 1913.
144. Hymenoptera, from N. America. Gahan, A. B., 1913.
145. Hymenoptera, Superf. Apoidea & Chalcidoidea. Crawford, J. C.
146. Ichneumonidae, from Pacific Slope. E. T. Cresson, 1878.
147. Ichneumonidae, in U. S. N. M. Ashmead, W. H., 1890.
148. Ichneumon Flies, Descriptions. Viereck, H. L., 1910.
149. Ichneumon Flies, reared, Species of. Viereck, H. L., 1911.
150. Ichneumon Flies, Descriptions. Viereck, H. L., 1911.
151. Ichneumon Flies, Descriptions. Viereck, H. L., 1911.
152. Ichneumon Flies, Descriptions. Viereck, H. L., 1911.
153. Ichneumon Flies, Descriptions. Viereck, H. L., 1912.
154. Ichneumon Flies and Bees. Viereck, H. L., 1912.
155. Ichneumon Flies, Descriptions. Viereck, H. L., 1912.
156. Ichneumon Flies, Descriptions. Viereck, H. L., 1913.
157. Ichneumon Flies, Descriptions. Viereck, H. L., 1913.
158. Ichneumon Flies, Descriptions. Viereck, H. L., 1913.
159. Ichneumonoidea, Yale Peruvian Expedition. Viereck, H. L., 1913.
160. Nomada, Genus of Bees in N. America. Cockerell, T. A., 1911.
161. Nomia, N. American Bees of Genus. Cockerell, T. D. A., 1910.
162. Osmia, Names applies to Genus. Cockerell, T. D. A., 1912.
163. Parasitic Hymenoptera from Ceylon. Howard and Ashmead, 1896.
164. Parasitic Hymenoptera, S. America. Crawford, J. C., 1910.
165. Parasitic Hymenoptera, Erixestus, Plagiomerus, Pyslledontus. Crawford, J. C., 1910.
166. Parasitic Hymenoptera, Gen. Eiphosoma. Cockerell, T. D. A., 1913.
167. Sawflies, Japanese. Rohwer, S. A., 1910.
168. Sawflies, in U. S. N. M. Rohwer, S. A., 1911.
169. Sawflies, Descriptions. Rohwer, S. A., 1912.
170. Tenthredinidae, Japanese. Marlatt, C. L., 1898.
171. Tenthredinoidea, from Eastern Canada. Rohwer, S. A., 1910.
172. Vespoidea and Sphecoidea. Rohwer, S. A., 1913.
173. Wasps, Descriptions of New Species. Rohwer, S. A., 1911.
174. Wasps, Fam. Sphecidae. Fernald, Henry T., 1912.
175. Wasps, Descriptions. Rohwer, S. A., 1912.
176. Wasps, Superfamily Orysoidea. Rohwer, S. A., 1912.



## GENERAL

177. Animals and Plants from Colorado (described as new). Cockerell, T. D. A., 1912.
178. Anthrax. Coquillet, D. W., 1892.
179. Asilidae. Williston, S. W., 1885.
180. Bark-Weevils, Genus *Pissodes*. Hopkins, A. D., 1911.
181. Bees, Rocky Mountain. Cockerell & Robbins, 1910.
182. Bees, New Mexico. Cockerell, T. D. A., 1898.
183. Bees, of Boulder County, Colorado. Cockerell, T. D. A., 1907.
184. Bees, Some in Harvard Univ. Museum. Cockerell, T. D. A., 1907.
185. Bombylidae. Coquillet, D. W., 1894.
186. Coleoptera and other Insects (coll. by Dr. Abbott). Linell, Martin L., 1897.
187. Cycadoidea (Fossil). Ward, Lester F., 1898.
- 187a. Callimorpha Latr. Smith, John B., 1887.
188. Dermaptera, of the U. S. N. M. Burr, of Malcolm, 1910.
189. Forficulids (Earwigs). Rehn, Jas. A. G., 1905.
190. Fossil Insects from Florissant. Cockerell, T. D. A., 1913.
191. Geological Survey of Canada. Robert Bell, 1903.
192. Ixodoidea (Ticks). Banks, Nathan, 1908.
193. Kansas University Science Bulletin, 1905.
194. Millipeds, in S. Texas. Cook, O. F., 1911.
195. Millipeds, Order *Merocheta*, Tropical. Cook, O. F.
196. Myriapods, Fam. *Lithobudae*, Utah. Chamberlin, Ralph V., 1901.
197. Natural History of Rocky Mountains. Cockerell, T. D. A., 1905.
198. Nearctic Spiders, Catalogue of. Banks, Nathan, 1910.
199. Noctuidae, California. Grote, A. R. (Art. VI., U. S. Geo. Survey.)
200. Odonata of Ohio, Catalogue of. Kellicott, D. S., 1896.
201. *Papilio Machaon*. Edwards, W. H., 1883.
202. Sawflies (*Chalastogastra*) Boulder Co., Colorado. Rohwer, Sievert A., 1912.
203. Spiders and other Arachnida, Southern Arizona. Banks, Nathan, 1901.
204. Spiders and other Arachnida, Porto Rico. Banks, Nathan, 1901.
205. Spiders, from Arizona. Banks, Nathan, 1902.
206. Streptisiptera. Dwight Pierce, W., 1911.
207. *Syrphus arcuatus* Fallen. Osburn, R. C., 1910.
208. *Syrphus perplexus*. Osburn, R. C., 1910.
209. Syrphidae, Genus *Scaeva* (*Catabomba*) Invalidity. Osburn, R. C., 1910.
210. Tachinidae, Revision. Coquillet, D. W., 1897.
211. Tenebrionid, Genus, *Echocerus*. Chittenden, F. H., 1895.
212. Tertiary Insects. Cockerell, T. D. A., 1908.
213. Tenthredinoidea, Genotypes of. Rohwer, S. A., 1911.
214. Thysanopterous Insects, Barbados. Franklin, Henry Jas., 1908.
215. Thorax, of Insects & Articulation of Wings. Snodgrass, Robt. Evans, 1909.
216. Tomocerinae, Sub. Fam. of Spring-tails. Folsom, Justus W.

## ECONOMIC ENTOMOLOGY

217. Alfalfa Caterpillar. Wildermuth, V. L., 1911.
218. Apples, Spraying. Bull. 191. Ohio Ag. Expt. Stn., 1908
219. Apple Spraying in 1908. H. A. Gossard, Ohio Ag. Stn., 1909.
220. Apple Tree Insects of Maine. Maine Ag. Expt. Stn., 1909.
221. Apple Leaf Hopper and others. Washburn, F. L., 1909.

222. Bacterial Blight, Apple, Pear, Quince (Bull. 176). D. H. Jones, Ont. Dep. Ag, 1909.
223. Bark Beetles or Bark Borers. Gossard, H. A., 1908.
224. Bee Diseases in Ontario (Bull. 197). Pettit, Morley, Ont. Dep. Ag., 1912.
225. Bee Diseases in Ontario. Bull. 190, Ont. Dep. Ag., 1911.
226. Bee Diseases in Ontario. Pettit, Morley (Rev. Ed., No. 197), 1913.
227. Boll Weevil, Most Important Step in Control. Hunter, W. D., 1907.
228. Boll Weevil, Bibliography. Bishopp, F. C., 1911.
229. Boll Weevil, Hibernation in Central Louisiana. Circ. 31, State Crop Pest Commission, civ, 1909.
230. Boll Weevils, Destroying before Hibernation. Circ. 24, State Crop Pest Co., 1908.
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NOTE.—There are a few more volumes and papers in our possession that are not in the above list; these will be recorded in a later list. Members are requested to send in any volumes, papers or books, they have no particular use for, of an Entomological nature, to complete and fill up series, etc.

WILLIAMS HUGH,

316 Beckley Ave., Victoria, B.C.

I had an opportunity of returning East this winter, and one of the points I took up was the utilizing of the library at Guelph. They have a very large and well equipped library there. Mr. Winn, who is President of the Montreal Branch, and President of the parent Society for this year, understands the situation of branch societies. We are not like the members at Guelph, who have the library within 100 yards of them. We are many miles away, consequently we are not able to get the books so readily. I am able to say now, that all the members of any branch Society are able to write to Guelph and obtain books from that library. Postage to and from will have to be paid at our end. They have also a very excellent library at Montreal, the property of the late H. H. Lyman. Mr. Winn has charge of this library, but is not allowed to circulate books. He will, however, take extracts, and will forward these at the request of our members. Therefore, supposing you wish to get an extract from Volume 26, No. 2, of the "Canadian Entomologist," a reference which your work has made you refer to, you will be able to write to Mr. Winn for that reference, which will be written out for you and mailed. Mr. Winn's address is 36 Springfield Avenue, West Mount, Montreal, P.Q.

I would suggest therefore, that we devote \$100.00 of our money to the purchasing of books for our library; Thus, any member who is working on any special group of insects, if he wishes to obtain some book which costs a sum of money, which he does not feel like expending himself, will be able to use this money for purchasing the paper required. The President, Secretary and Assistant Secretary, who might act as Librarian, will decide whether or not it is advisable to purchase the book or paper. It will be one of our books, and will remain the property of the Society, but it may be held by a member for such time as he has use for it. When he has dispensed with its service he can return it to the library. I bring this up now as a suggestion, but later will frame a resolution covering the point.

Any matter dealing with the Library and the obtaining of books or circulars is to be addressed to Williams Hugh, 316 Beckley Avenue, Victoria, B. C.

## THE PUBLICATIONS.

Doubtless in the minds of many of you there is some question as to how our Bulletins are being issued. Through the kindness of the Department of Agriculture, we have been able to have our bulletins printed by the Govern-

ment press. Nos. 3, 7 and part of 4 were authorised by the Department of Agriculture. Bulletin No. 6 and part of No. 4 were issued, thanks to the representation made to the Department of Education by Mr. Francis Kermod. Bulletins Nos. 1, 2 and 5 were issued at the expense of the Society.

It may appear strange to you that our bulletins are being authorised from these different sources. In explanation, therefore, I wish to recall to your memory how our Society re-organized. In December, 1911, I called a meeting in Vancouver, and resuscitated the Society, which had been dormant for several years. The proceedings of this meeting were printed in Bulletin No. 1, at the private expense of a few members. It was very unpretentious, but a start. On January 9th, 1913, a second meeting was held, and the proceedings were issued in Bulletin No. 2 at our own expense. At that meeting it was decided to hold a semi-annual meeting in the Okanagan during the summer. This meeting was duly held in Vernon on July 18th and 19th, 1913. The object of this meeting, as evidenced by the character of the papers submitted, was mainly economic in nature. I therefore presented my case to the Department of Agriculture, Victoria, B. C., submitting the papers read at this Vernon meeting, and presenting and explaining the character of our work, as evidenced by our former publications, Nos. 1 and 2. Through the kindness of the Hon. Price Ellison, Minister of Agriculture, and Mr. W. E. Scott, Deputy Minister of Agriculture, I was accorded the pleasure of having Bulletin No. 3 passed through the Government press free of charge to the Society. I was further able to procure a grant of money for the Society, which relieved the Society of its indebtedness incurred by the two previous publications. You will notice, in this connection, that we had to abide by the regulation size of paper and type of print, required by Departmental bulletins. This, of course, we were very pleased to do, considering the courtesy with which our claims were met.

Our fourth meeting, or the thirteenth Annual Meeting since the inception in 1902, was held in Victoria on January 23rd, 24th, 1914. At this meeting, as may be gathered by the papers presented, we had a combination of scientific and popular economic papers. On submitting the papers to the Department of Agriculture on the request to again have them printed by the Government press, I was met by the objection that many of the papers were too technical for the farmer, and hence the Department could not see their way clear to authorize the printing of the whole. They were willing, however, to sanction the printing of those of economic interest. Consequently, in Bulletin 4, of our Series, from page 1 to 39, we find the economic papers issued. It became necessary at this point to make arrangements for the publications of the Scientific Technical papers. I presented my case to Mr. Francis Kermod, Director of the Provincial Museum, and he in turn referred the matter to Dr. H. E. Young, Minister of Education, and I was able to follow this up by personal representation. I was able, therefore, to obtain authorization to have the technical papers printed. I cannot here say how much this Society should feel indebted to Mr. Kermod for his very kindly help and assistance, both in this instance and later. He has continually placed his services at our disposal, and has at all times supported our endeavours. I trust this Society will remember this, and will take steps to give Mr. Kermod an appreciation in return for his kindly and ready help.

As it happened, the proceedings of our 13th Annual Meeting went to press in two sections, authorized on the one hand by the Department of Agriculture, and on the other hand by the Department of Education. Mr. W. H. Cullen, King's Printer, asked me by letter whether it would be suitable to combine the two proceedings as one bulletin. I replied in the affirmative, hence you have Bulletin No. 4 in combination.

The success of the first semi-annual meeting was so marked that it was decided to hold a second. This meeting was held at Kelowna on August 20th, 1914. The fourteenth annual meeting was held in Vancouver on January 16th, 1915. The papers presented at these two meetings were combined and submitted for publication. In view of the previous objection raised, it was thought advisable that we separate our economic papers from our systematic, and from this point on run two series in our publications.

In order to set a standard in type of print thought desirable for scientific literature, I made arrangements to issue at our own expense, Bulletin No. 5.

The numbering of the pages in Bulletin No. 5 runs consecutively with Bulletin No. 4. The type of printing, as you will observe, is a wide difference from previous issues, and in my opinion much more suitable for scientific literature. I may say that Bulletin No. 5 created a most favourable impression in the Entomological world. The remaining papers presented at the two meetings, i. e., Kelowna and Vancouver, still required publication. I separated the technical from the economic, submitting the former to Mr. Kermode, who authorized its publication as Bulletin No. 6. The latter was submitted to the Department of Agriculture, who authorized its publication as Bulletin No. 7. The type used in the printing of these two bulletins differs, as can be seen. It was necessary to make arrangements with the King's Printer in regard to the change of type, as it appeared there was some difficulty in changing type to suit our Bulletin No. 5. However, I am pleased to say this was overcome, and we have Bulletin No. 6 running in consecutive order with Bulletin No. 5, as the "Technical or Systematic Series." The numbering of the pages in Bulletin No. 7 commences at 1, hence with Bulletin No. 7 we start a new series called the "Economic Series."

I think it advisable that our future publications should run in these two series, and the pages should run consecutively, so that after a period of time an index could be drawn up covering the former issues. I trust this explanation is clear, and in accordance with your wishes. I will submit for your approval a resolution covering this point, later.

**Resolved** That the Secretary's Report be adopted. Movers: Hugh—Wilson. Carried.

#### RESOLUTIONS.

During the session the following resolutions were discussed and acted upon:

##### 1. **Re BIRDS.**

In view of the fact that a great deal of discussion commonly occurs at Farmer's meeting in regard to the usefulness or destructiveness of birds in their relation to agriculture, and considering the fact that from many stand-points the relation of birds to agriculture has an Entomological bearing,

**Be it Resolved:** "That this Society being the Entomological Society of British Columbia urge the Provincial Government to undertake an investigation into the food and habits of birds in relation to their economic value, and that the Government be asked to publish a bulletin dealing with the economic value of the common birds in British Columbia."

Movers: Taylor—Parham. Carried.

##### 2. **Re PARENT SOCIETY.**

In view of a misunderstanding that has occurred between this Society and the Parent Society in the matter of membership dues

**Be it Resolved:** That the Secretary be authorized to straighten up the affairs of this Society with the parent Society, and that he be authorized to utilize such funds of the Society to accomplish this end.

Movers: Treherne—Wilson. Carried.

##### 3. **Re BY-LAWS.**

In as much as the By-Laws of the Society call for the regular annual meeting to be held in January of each year, and as this is not always convenient,

**Be it Resolved** That the words "In the Spring" replace the words "In the month of January" in the By-Laws covering the date of meeting.

Movers: Treherne—Wilson. Carried.

##### 4. **Re SOLDIER'S FEES.**

In consideration of the fact that several of the members of the Society who have joined the colours and enlisted for military service in Europe, desire still to retain their membership,

**Be it Resolved** "That the Secretary be authorized to forward the dues (50c) per member to the 'Canadian Entomologist' for every member of the Society who have joined the army and that the money be made available from the funds of the Society."

Movers: Treherne—Downes. Carried.

#### 5. **Re NOTES OF CONDOLENCE.**

In consideration of the loss, during the past year, the Society has sustained by the death of Mr. Thomas Cunningham, late Provincial Inspector of Fruit Pests; of Mr. E. H. Robinson, beekeeper, Victoria; and of Capt. R. V. Harvey, formerly Secretary of the Society, who was wounded on active service in France, and died in a German prison.

**Be it Resolved** "That the Secretary be authorized to send the dependents of Mr. Thomas Cunningham, Mr. E. H. Robinson, and Capt. R. V. Harvey, the heartfelt condolence of the Society, and a recognition of the services they performed, not only for the Society, but also for the Province as a whole.

Movers respectively: Treherne—Wilson; Todd—Blackmore; Sherman—Treherne. Carried.

#### 6. **Re GRANT TO LIBRARY.**

In consideration of the fact that it is advisable not only to build up our library by the purchase of books of reference, but also to assist members in studying groups of insects in which they are interested,

**Be it Resolved** "That (\$100) One Hundred Dollars of the funds of the Society be placed towards the furtherance of building up the library and supplying the members with books of reference, and that the President and Secretaries, be appointed to decide and act on each request in accordance with the best interests of the Society.

Movers: Treherne—Wilson. Carried.

#### 7. **Re SEMI-ANNUAL MEETING.**

In consideration of the success of former summer semi-annual meetings,

**Be it Resolved** "That a semi-annual meeting be held at Penticton during 1916."

Movers: Treherne—Wilson. Carried.

#### 8. **Re PROVINCIAL MUSEUM.**

In consideration of the courtesy and kindly help the Society have always experienced at the hands of the Provincial Museum, through the medium of Mr. Francis Kermode, Director of the Museum,

**Be it Resolved:** "That the Society tender its thanks to Mr. F. Kermode for the use of the room to hold the meetings in, and also for the assistance and support in the publication of its technical papers it has received."

Movers: Treherne—Sherman. Carried.

#### 9. **Re PROVINCIAL DEPARTMENT AGRICULTURE.**

In consideration of the many kindly services accorded the Society by the Minister of Agriculture, and by Mr. W. E. Scott, Deputy Minister of Agriculture,

**Be it Resolved:** "That this Society express its deep appreciation to the Provincial Department of Agriculture for obtaining the Society a grant (\$250.00) for maintenance and for the assistance and support it has received in issuing the "Proceedings."

Movers: Blackmore—Wilson. Carried.

#### 10. **Re B. C. LIST OF INSECTS.**

In consideration of the necessity of publishing a B. C. List of Insects, the members are requested to compile and work out the names of determined species of insects known to occur in British Columbia.

**Be it Resolved** "That the list of insects in B. C. be published as soon as possible, and that the matter be dealt with by the Advisory Board." Carried.



## GENERAL DISCUSSION.

A general discussion on these foregoing resolutions, and on other matters of interest took place during the session. The remarks passed were somewhat as follows:—

**Mr. Sherman:** I wish to express, on behalf of the Society, and for myself in particular, great sorrow at the death of Capt. R. V. Harvey. I am sure that all the older members of the Society are well acquainted with Capt. Harvey and his work. We regard his loss as that of a personal friend. He may be regarded as the founder of this Society and has personally inspired many young members with the desire to do good work. He was always willing to assist more humble searchers after truth, and, I may say without hesitation, that in the various lines of Entomology he took up, he excelled. He was one of our best authorities in the West, and a most enthusiastic collector. He took up the study of the Diptera and was enthusiastic about that group. He added many new species to our list. Although he was not very active, as an Entomologist, during more recent years, yet while he was active, he represented the old type of Entomologist and studied the subject from pure love of the science, and not for anything he might get out of it personally. He was a man who was both friend and companion, and his loss is a severe one to a society such as this and, on account of his personal nature, a great loss to humanity.

**Mr. Treherne:** In moving a note of condolence to our late friend, Mr. Thomas Cunningham, who until so recently held an honoured position in this Province as Inspector of Fruit Pests, I would like merely to say, that I feel a great personal loss in his recent decease. We had all met him, as he has attended these meetings of ours for the past three years. We all recognized, none more so than those who worked in close co-operation with him, the earnest way he had when dealing with matters of Provincial interest, and all his actions were guided by the sincere wish to do the best he knew how for the welfare of the Province.

**Mr. Wilson:** A word to support Mr. Treherne's remarks. We have lost, in the death of Mr. Cunningham, a very valuable man and a time honoured servant of the Province. The horticultural interests have also suffered a severe loss by his death. Some times he and I did not see "eye to eye" and our views were often antagonistic to one another, but I wish to say that I have always held a sincere respect for Mr. Cunningham for the forcefulness of his character. The love he held for this great and grand Province of ours far exceeded the love he held for anything else. He will be sorely missed by the fruit growers and farmers; he will be missed generally.

**Mr. Blackmore:** The beekeepers of British Columbia have lost just as big a friend in their line as have the horticulturists in theirs, in the recent death of Mr. E. H. Robinson. Mr. Robinson was one of the best beekeepers we have ever had in British Columbia. He was fearless, genuine, and always spoke what he thought. I have known him for several years, and I have heard him remark often what he proposed to do for this meeting, and for this Society. Now he has gone, his loss will be felt no less so than for the other two gentlemen you have just mentioned.

**Mr. Dundas Todd:** I am very glad, indeed you have carried a resolution of condolence with Mrs. E. H. Robinson, regarding the death of her husband. Mr. Robinson was the best beekeeper in this part of the world. He took a great interest in beekeeping. I have had several letters regarding the conditions in his Apiary. He was a first-class workman, and a first-class bee-man, and I am glad to have this opportunity of adding my testimony to what has already been said.

## Re CANADIAN ENTOMOLOGIST.

**Mr. Treherne:** There is another matter I would like to hear discussed, and that is the advisability of sending back some of our papers to be published in the "Canadian Entomologist." You all know, and it is emphasized in the paper by Mr. Winn, that the number of articles penned by Canadians appearing in its pages is not nearly high enough. I would like to suggest that we send back some of our papers presented at this meeting for the "Canadian Entomologist" for publication with the words attached to the article: "Con-

tributions from the Entomological Society of British Columbia." In this way we would be aiding the oldest journal of Canadian Entomology, and the circulation and notoriety such an article would receive would far exceed the notoriety our Society can give for many years. The kudos this Society would gain would be accomplished by adding the postscript I suggest. There are at least four of the papers submitted at this meeting which could and would be readily acceptable in the pages of the "Canadian Entomologist." The other papers, being of peculiar interest to the Province, can better be taken care of out here. I bring this matter up for discussion.

**A Member:** I am inclined to think that the style of the "Canadian Entomologist" might be improved considerably.

**Mr. Sherman:** Contributions to the "Entomologist" might be left to the individual contributors. So long as we are able to publish our own proceedings, I am in favour that we do so.

**Mr. Blackmore:** Mr. Kermodé has in the past, and we hope will in the future, have our publications of scientific interest published by the Government press with his consent and support. So far as the papers of economic interest are concerned, Mr. Treherne has thus far been able to obtain the support and co-operation of the Department of Agriculture.

**Mr. Kermodé:** I am sure I am perfectly willing to do what I can to assist in having your technical papers published under the Museum Department.

**Mr. Treherne:** I am sure we all feel very much indebted to Mr. Kermodé of his kind services, and our appreciation should also extend to Mr. W. E. Scott, Deputy Minister of Agriculture, however, I think it only right and proper that the members of this Society should realize that, as a private Society, we are obtaining these services by the grace and goodness of these various departmental chiefs. It must never be thought for a moment that the kindness extended to us, as a Society thus far, is to act a precedent, and that if the auspices were not good and we were unable to obtain former assistance in the matter of printing or by grant, we should feel hurt or misused. It must be clearly understood that, at the moment, we are a private Society, operating under a grant and assisted by the Department press, and that we can only hope for maintenance of this principle provided we are able to show how and why and where we are of a benefit to the Province. I think we have shown this, and will do so more as time goes on, but we must not be confused in first principles.

**Mr. Blackmore:** I think we had better handle our own papers, as long as we are able to. I notice that the names of Eastern Canadians do not appear as often as they might in the pages of the "Entomologist." I am inclined to think that, proportionately speaking, the West is well represented in the pages of the magazine, and that we have our own bulletins in addition. I think it would be a mistake to send papers to be printed there, and not have the benefit of their being printed here, as they refer to British Columbia insects.

At the wish of the meeting the matter was allowed to drop, no steps being taken to publish in the East.

#### OFFICERS, 1916.

The following officers for the Society for the year March, 1916 and Spring, 1917, were regularly elected.

Honorary President.....	Francis Kermodé
President.....	E. H. Blackmore
1st Vice-President (Okanagan).....	Lionel E. Taylor
2nd Vice-President (Coast).....	R. S. Sherman
Secretary-Treasurer.....	R. C. Treherne
Asst. Secretary and Librarian.....	W. Hugh
Advisory Board.....	Messrs. Blackmore, Taylor, Sherman, Treherne, Hugh, G. O. Day, Tom Wilson, E. M. Anderson.

## LIST OF MEMBERS

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Ward, W. E.	Freight Office C. P. R., Vancouver
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