

A considerable number of rare specimens have been added to the collections, and the Council have pleasure in again acknowledging the careful and painstaking services of the Curator, Mr. J. Alston Moffat, who has at all times shown his readiness to assist the members, and particularly beginners, in the identification of specimens and the prosecution of their studies.

Interest in the various sections engaged in the study of the allied sciences of Botany, Microscopy, Geology and Ornithology, has not flagged, a number of new members having been added to the Society through this channel, and good work accomplished in each branch. Reports from the sections are submitted herewith and will be found to give an outline of the work undertaken.

The annual report of the Treasurer shows a present balance of \$457.54, which amount will be scarcely sufficient to meet the expenses of the Society during the winter session, but by careful economy it is hoped that the expenditure will not exceed the balance in hand to any great extent.

The Society was represented at the meeting of the Royal Society of Canada, which was held at Ottawa in May last, by your President, Mr. Harrington, whose report is presented herewith.

All of which is respectfully submitted,

(Signed) W. E. SAUNDERS, Secretary.

In the absence of the President, Mr. JAMES FLETCHER, Dominion Entomologist, gave a highly interesting address upon the chief insect attacks of the year, which was listened to with great attention.

INJURIOUS INSECTS OF THE YEAR.

BY JAMES FLETCHER, OTTAWA.

I regret that the President has been prevented from being here to day to deliver his annual address. I am sure that some very important business in connection with his office has caused his absence, as I know that he fully intended to be present. I am glad to be able to report that no serious new pests of the farm have made their appearance during the past season, and with the exception of the Horn-fly and three species of Locusts, generally known under the collective name of "Grasshoppers," none of the old enemies have shown themselves in unusual numbers. Of household pests the common Clothes Moth (*Tineola biselliella*, Hum) was for some reason extremely abundant and injurious in many parts of the Province. Two of the most interesting attacks which have been brought under my notice are: (1.) The gall-making larva of a small moth which passes its larval life in the young twigs of the ash leaved maple, *Negundo aceroides*. Several specimens of the swollen twigs containing caterpillars were sent to me from Mr. W. G. Fonseca, of Winnipeg, who has observed the insect for some years. I was able to breed the moths this year as well as two distinct parasites. None of these have yet been named. About half the larvæ were found to be parasitised. (2.) The other attack alluded to is of the larvæ of one of the Carrion beetles, *Silpha bituberosa*, Lec., upon squashes and chenopodiaceous plants at Saskatoon in the North-West Territories. In England a closely allied species, *S. opaca*, is sometimes a serious enemy of the beet-root. It is this fact which gives the present record importance, from the possibility of *S. bituberosa* developing a taste for cultivated plants as the country becomes more settled. The larvæ are nocturnal in their habits, black, half an inch in length, shaped like wood-lice and are very active. I received the larvæ when nearly full-grown and soon afterwards they buried themselves in the earth. About two weeks later the beetles

emerged. At first it occurs in this case *S. bituberosa*, a usual habit of them that they occur guard against them.

Cut-worms



ing, is very easy all cut to the right a loop of string to the field. Be palm of the left across the paper stem between the above the ground

The Turnip (Fig. 2) this season young plants as of land plaster and land plaster acts them past the stem. The mixture must be abundant in *vitis*, Harr., the has been success Kerosene Emulsion injurious upon them by farmers for paration of ensi seems to be very causes the leaves (Fab.) also injure the upper surface injurious in the full Western Blister beans. The sun the season Cut-worms were much weaker Trypetid fly (*Stratiomya*) by means of which the pith. They pass when they may be honey yellow with The season in the some of the usual