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LEONARD SEPTIMUS McLAINE

Leonard S. McLaine, Dominion Entomologist and Assistant Director of Science Service, died following a heart attack at his summer home at Lake Bernard, near Ottawa, on the evening of July 20, 1943, in his fifty-seventh year.

He was born in Manchester, England, on June 27, 1887, and received his elementary and secondary education at Merton House School in North Wales and the Wilson Lyon School in New York City. He subsequently studied at Boston University and Massachusetts State College, and graduated from the latter institution with the degree of Bachelor of Science in 1910. Following his graduation he was appointed a Fellow in Zoology of the College, and after completing postgraduate studies was awarded the Master of Science degree in entomology and palaeontology in 1912. In 1912-13 he was employed as a deputy state nursery inspector in Massachusetts, until his appointment in the latter year to the position of Field Officer in charge of the brown-tail moth survey in the Division of Entomology, Dominion of Canada Department of Agriculture, with headquarters at Fredericton, N. B. In 1919, following the reorganization of the Division of Entomology under the late Dr. C. Gordon Hewitt's leadership, to the status of a branch with four major divisions, Mr. McLaine was transferred to Ottawa to serve as Chief of the newly established Division of Foreign Pests Suppression, and Executive Assistant to Dr. Hewitt.

Mr. McLaine was an able and enthusiastic administrator and under his direction the new division attained a high degree of efficiency and rendered much valuable service to Canadian agriculture. When, in 1923, the Destructive Insect and Pest Act Advisory Board was established, Mr. McLaine was appointed Secretary, and served in that capacity until 1942. His official duties included the administration of that Act and the direction of a large inspection staff stationed at various points throughout the Dominion. He was also named Secretary of the Federal Apple Maggot Advisory Committee, when that body was set up in 1933, to safeguard the apple export trade of Eastern Canada. On the reorganization of the Department of Agriculture on April 1, 1938, Mr. McLaine was appointed Chief of the newly established Plant Protection Division, which, in addition to the activities of the former Division of Foreign Pests Suppression, involved the administration of the Seed Potato Certification Service. On July 16, 1942, he was appointed Dominion Entomologist and Assistant Director of Science Service, in which position he had served in an acting capacity following the retirement of Dr. Arthur Gibson, on January 15, 1942.

Mr. McLaine was a frequent visitor to the United States in connection with plant inspection, plant quarantine, and insect control matters, and he won numerous friends among federal and state officials. He also visited the United Kingdom and several European countries in the course of his duties, and attended the Fifth International Congress of Entomology in Paris in July, 1932, as a Canadian representative.

Mr. McLaine was honoured by being elected President of the American Association of Economic Entomologists in 1936, and President of the Entomological Society of Ontario in 1936-37. He was also a Fellow of the American Association for the Advancement of Science, and a member of the Canadian Society of Technical Agriculturists, the Quebec Society for the Protection of

Plants (President 1939) and the Ottawa Field Naturalists' Club. He was a charter member of the Professional Institute of the Civil Service of Canada and for many years took a prominent part in its activities, serving as Honorary Secretary-Treasurer (1927-28) and President (1930-31). He also represented the Institute on the Advisory Committee on Superannuation (1937-1943). Other indications of Mr. McLaine's public spirited zeal are his service as Councillor on the Council of the Village of Rockcliffe Park (1937-1943) and, in the wider field, as Honorary Secretary of the Canadian Institute of International Affairs (1941-43).

On May 23, only two months before his death, Mr. McLaine received the honorary degree of Doctor of Science from Massachusetts State College "in recognition of his accomplishments and meritorious service in the field of entomology." His death is a very great loss to entomology and to Canadian agriculture, and is very keenly felt by all those who were privileged to be associated with him.

Dr. McLaine is survived by his wife, Kathleen Meredith (nee Lett), and three children, Alan, Heather, and Peter.

The following is a list of publications by Dr. McLaine arranged in chronological sequence:

- 1914, The brown-tail and gipsy moths. Bull. No. 11, Dept. Agric., New Brunswick (with J. D. Tothill).
- 1915, Report of the campaign against the brown-tail moth. Ann. Rep., New Brunswick Dept. of Agric. (1914), pp. 84-85.
- 1916, Report of the campaign against the brown-tail moth. Ann. Rep., New Brunswick Dept. of Agric. (1915), pp. 85-88.
Rearing the parasites of the brown-tail moth in New England for colonization in Canada. Agric. Gaz., Can. Dept. Agric., 3:22-25.
- 1917, Report of the campaign against the brown-tail moth. Ann. Rep., New Brunswick Dept. of Agric. (1916), pp. 9-11.
- 1918, The introduction of the parasites of the gipsy and brown-tail moths into Canada. Proc. Ent. Soc. Nova Scotia, No. 3 (1917), pp. 74-76.
Report of the campaign against the brown-tail moth. Ann. Rep., New Brunswick Dept. of Agric. (1917), pp. 55-59.
Report of the brown-tail moth survey, Nova Scotia, 1916-17. Ann. Rep., Nova Scotia Sect. Agric. (1917), pp. 65-69.
- 1919, The recovery in Canada of the brown-tail moth parasite, *Compsilura concinnata*. 49th Ann. Rep. Ent. Soc. of Ont. (1918), pp. 35-39 (with J. D. Tothill).
Report of the brown-tail moth survey. Ann. Rep., New Brunswick Dept. of Agric. (1918), pp. 120-123.
Report of the brown-tail moth survey, Nova Scotia, 1917-18. Ann. Rep., Nova Scotia Sect. Agric. (1918), pp. 61-67.
The European corn borer, *Pyrausta nubilalis* Hbn. Agric. Gaz., Can. Dept. Agric., 6:443-446.
The present situation of the brown-tail moth in Eastern Canada. 11th Ann. Rep. Que. Soc. Prot. Plants, 1918-19, pp. 29-32.
Plant importation and exportation in relation to Canada and the United States. Ann. Rep. Que. Pomological Soc., pp. 108-111.
- 1920, Report of the brown-tail moth survey. Ann. Rep., New Brunswick Dept. of Agric. (1919), pp. 81-82.
Report of the brown-tail moth survey, Nova Scotia, 1918-19. Ann. Rep., Nova Scotia Sect. Agric. (1919), pp. 45-50.
Two new amendments to the regulations under the "Destructive Insect and Pest Act". Agric. Gaz., Can., 7:644-646.
Two new and important pests recently found in Canada. Agric. Gaz., Can., 7:793-794.
The European corn borer infestation. Agric. Gaz., Can., 7:938.
The European corn borer. Crop Prot. Leaf., No. 13, Ent. Branch, Can. Dept. Agric. (with Arthur Gibson).
- 1921, Report of the brown-tail moth survey. Ann. Rep., New Brunswick Dept. of Agric. (1920), pp. 48-49.
Brown-tail moth report, Nova Scotia. Ann. Rep., Nova Scotia Sect. Agric. (1920), pp. 43-47.

- The discovery of the European corn borer in Southern Ontario. 13th Ann. Rep., Que. Soc. Prot. Plants, 1920-21, pp. 51-53.
Recent amendments to the regulations under the "Destructive Insect and Pest Act". Agric. Gaz., Can., 8:525-527.
- 1922, The spread of the European corn borer in Southern Ontario. 52nd Ann. Rep., Ent. Soc. of Ont. (1926), pp. 26-28.
Report of the brown-tail moth survey. Ann. Rep., New Brunswick Dept. of Agric. (1921), p. 96.
Brown-tail moth report, Nova Scotia. Ann. Rep., Nova Scotia Sect. Agric. (1921), pp. 53-58.
Insect Legislation in Canada. Scien. Agric., 3:51-54.
Insect Legislation in Canada. Monthly Bull., Dept. Agric. California, XI: Nos. 8-9, pp. 596-597.
A brief résumé of nursery conditions in Holland, Belgium and France. Jour. Econ. Ent., 15:162-167.
The spread of the European corn borer in Southern Ontario. Jour. Econ. Ent., 15:227-231.
Recent amendments to the regulations under the "Destructive Insect and Pest Act". Agric. Gaz., Can., 9:240-243.
The gypsy moth situation in Canada. Rep. International Conference, Bull. 148, Dept. Farms and Markets, N. Y.
The European corn borer in southern Ontario. Agric. Gaz., Can., 9:22-24.
- 1923, Distribution of the European corn borer in Ontario during the summer of 1922. 53rd Ann. Rep., Ent. Soc. of Ont. (1922), pp. 10-13.
Brown-tail moth report, Nova Scotia. Ann. Rep., Nova Scotia Sect. Agric. (1922), pp. 47-54.
The distribution of the European corn borer in Ontario. Agric. Gaz., 10:31-33.
- 1924, Federal and provincial legislation as it affects the fruit grower. 55th Ann. Rep., Ont. Fruit Growers' Assoc. (1923), pp. 22-26.
The new regulations under the "Destructive Insect and Pest Act". 54th Ann. Rep., Ent. Soc. of Ont. (1923), pp. 27-36.
Brown-tail moth report, Nova Scotia. Ann. Rep., Nova Scotia Sect. Agric. (1923), pp. 49-54.
- 1925, The outbreak of the gypsy moth in Quebec. 55th Ann. Rep., Ent. Soc. of Ont. (1924), pp. 60-62.
Corn borer legislation in Canada. Jour. Econ. Ent., 17:147-149.
New regulations under the "Destructive Insect and Pest Act". Agric. Gaz., 11:20-23.
Brown-tail moth report, Nova Scotia. Ann. Rep., Nova Scotia Sect. Agric. (1924), pp. 52-56.
The outbreak of the gypsy moth in southern Quebec. 17th Ann. Rep., Que. Soc. Prot. Plants, pp. 32-34.
The oriental peach moth. Can. Hort., 48:176.
Report brown-tail moth survey, Nova Scotia, 1924-25. Ann. Rep., Nova Scotia Sect. Agric., pp. 54-58.
The status of the European corn borer in Ontario (1924). Jour. Econ. Ent., 18:95-98 (with H. G. Crawford).
- 1926, The gypsy moth situation in Quebec. 56th Ann. Rep., Ent. Soc. of Ont. (1925), pp. 67-69 (with S. H. Short).
A preliminary announcement on the outbreak of the European pine shoot moth. 56th Ann. Rep., Ent. Soc. of Ont. (1925), pp. 71-75.
The status of the European corn borer in Ontario (1925). Jour. Econ. Ent., 19:124-127 (with H. G. Crawford).
- 1927, The activities of the "Division of Foreign Pests Suppression". 57th Ann. Rep., Ent. Soc. of Ont. (1926), pp. 20-22.
The regulations dealing with the importation of plants. 21st Ann. Rep., Ont. Hort. Soc. (1926), pp. 47-49.
The European corn borer in Quebec. 19th Ann. Rep., Que. Soc. Prot. Plants, pp. 19-21.
Foreign pests suppression and the advisory board in Canada. Proc. West. Plant Quar. Board, Cal. Dept. of Agric., Special Pub. No. 73 (1926), pp. 45-49.
The status of the European corn borer in Canada (1926). Jour. Econ. Ent., 20:341-344 (with H. G. Crawford).
The plant inspection service of Canada. Jour. Econ. Ent., 20:453-457.
- 1928, The Mexican bean beetle in Ontario. 58th Ann. Rep., Ent. Soc. of Ont. (1927), pp. 39-41.
The status of the European corn borer in Canada (1927). Jour. Econ. Ent., 21:86-89 (with H. G. Crawford).

- 1929, The spread and distribution of the satin moth in British Columbia. 60th Ann. Rep. Ent. Soc. of Ont., pp. 70-73 (with R. Glendenning).
The Mediterranean fruit fly situation in Florida. 60th Ann. Rep., Ent. Soc. of Ont., pp. 133-137.
The value of quarantines. Monthly Bull., Cal. Dept. Agric., 18:609-611.
The basis and aims of plant legislation. Jour. Econ. Ent., 22:449-453.
- 1930, The gypsy moth outbreak in southern Quebec. Jour. Econ. Ent., 23:38-41.
- 1931, The blueberry maggot situation in Canada. 61st Ann. Rep., Ent. Soc. of Ont. (1930), pp. 68-69.
A review of the European corn borer outbreak in Ontario. Jour. Econ. Ent., 31:512-517 (with L. Caesar).
- 1933, Protecting Pacific countries against invasion of insect pests: Canada. Proc. 5th Pacific Sci. Cong., 5:3567-3571.
- 1934, The relation of entomology to the Dutch elm disease. 64th Ann. Rep., Ent. Soc. of Ont. (1933), pp. 41-43.
The federal apple maggot advisory committee and its functions. 25-26th Ann. Rep., Que. Soc. Prot. Plants, pp. 67-69.
Changes in insect and pest legislation in Canada. Monthly Bull., Cal. Dept. Agric. 23:333-335.
- 1935, Precautions taken to prevent the importation of pests and diseases on exhibits for the World's Grain Exhibition, Regina, 1933. 65th Ann. Rep., Ent. Soc. of Ont. (1934), pp. 90-93.
- 1936, Recent developments in Canadian regulatory work. Jour. Econ. Ent., 29:766-771.
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- 1937, Developments in vacuum fumigation at the port of Montreal. 67th Ann. Rep., Ent. Soc. of Ont. (1936), pp. 15-17 (with H. A. U. Monro).
- 1938, Some notes on the gypsy moth eradication campaign in New Brunswick and the Japanese beetle preventive work. 69th Ann. Rep., Ent. Soc. of Ont., pp. 43-45.
- 1939, The use of hydrocyanic acid gas in the vacuum fumigation of broom corn under winter conditions. Jour. Econ. Ent., 32:94-98 (with H. A. U. Monro).
The "Destructive Insect and Pest Act" protects gladiolus importers. Ann. Rep., Can. Glad. Soc., pp. 117-118.
- 1942, Japanese beetle situation. 72nd Ann. Rep., Ent. Soc. of Ont. (1941), pp. 8-9.
Entomology and plant protection in Canada since the outbreak of war. 18th Ann. Meet. of National Plant Board, Baltimore, Md., Oct. 12-14.
- 1943, The war activities of the Federal Division of Entomology and plant protection. 73rd Ann. Rep., Ent. Soc. of Ont. (1942), pp. 7-16.
The Japanese beetle. Can. Nat., 5:92-93.

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SOME NEW AND POORLY KNOWN SPECIES OF COLEOPTERA, II*

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Blethisa catenaria n. sp.

Length 11.3 mm. Black, the head and pronotum feebly but distinctly bronzed, the elytra with feeble bronze and coppery reflections. Head behind the eyes finely, not closely punctate from side to side as in *julii* Lec. Pronotum a little more strongly transverse than in *julii*; its length equal to two-thirds its width; its lateral margins a little more strongly arcuate and the flattened and reflexed portions of the sides almost twice as wide as in *julii*; punctation as in *julii*, the disk punctate throughout except on an area on each side of the median line; posterior angles as in *julii*, obtuse but well defined; the depression within each posterior angle not limited externally by a carina as in *julii*. Elytra much as in *julii* but with the sides more strongly explanate and the stria punctures less strongly impressed; all intervals, except those of the lateral declivities, con-

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