

EDITORIAL

The Brodie Club salutes those of its members who have given up their peace-time occupations to enter the armed services or to otherwise engage in a full-time enterprise directly concerned with the war. The list of names mentioned below constitutes our Roll of Honour, and the Club has looked with pride on the succession of attainments achieved by its members in service.

Squadron-Leader Cross is doing administrative and organization work for the Royal Canadian Air Force with headquarters in Ottawa.

Captain Gunn, Royal Canadian Ordnance Corps, is in charge of the accounting wing at the Longue Pointe Ordnance Depot in Montreal.

Squadron-Leader MacLulich was chief ground instructor at Brandon, Manitoba, but is now attending the Empire Central Flying School in England.

Pilot-Officer Prince was physical training instructor in connection with the duty-fitness programme of the Royal Canadian Air Force at Trenton, Ontario and Sydney, Nova Scotia. He is now on course at Vernon, British Columbia.

Colonel Steenburgh for a time commanded the artillery training centre at Petawawa, Ontario. He is now Director of Artillery for Canada, stationed at Ottawa.

Lieutenant-Commander Taylor was associated with army personnel work at Debert, Nova Scotia with the rank of Major. Now, he is in charge of personnel for the Royal Canadian Navy, with headquarters in Ottawa.

Although not in uniform, two other members are meteorological officers affiliated with the Royal Canadian Air Force.

Meteorological Officer Ide is stationed at Gander airport, Newfoundland.

Meteorological Officer Urquhart is at Weyburn, Saskatchewan.

Two members who were unable to get over the barrier of military physical tests have found important niches for service. Black is time and material recorder for the Department of National Defence, at the Midland, Ontario shipyards. Ussher is employment supervisor at the Defence Industries Limited, explosives plant, Nobel, Ontario.

The posts of responsibility held by the members enrolled above indicate high calibre. This is in complete agreement with the evaluation long since placed on them by fellow members in the Brodie Club.

Although it is not possible to include a complete statement of the war activities of all members it should be remarked that many give part of their time to military duties. McIlwraith has been a Lieutenant in the Canadian Officers' Training Corps and Rutter is a Sergeant in the Royal Regiment of Canada (Reserve).

THE 368th MEETING—JANUARY 5th

Chairman, Brodie. Attendance, 21 + 2 visitors

BUSINESS: Letter from L. J. Milne read.

PAPERS: **Mineral Survey in Haliburton District**, Satterly. Area lies wholly within precambrian; has intrusive rocks and sedimentary gneisses containing mineral deposits. Many minerals occur in too small quantity and others contain impurities, thus non-profitable.

The Club's 18th Christmas Census, Baillie. Outlined the routes covered. A total of 61 species recorded. Compared the list with those of previous years. Steady increase of Cardinal, Blue Jay and Hairy Woodpecker thought to be influenced by increased number of feeding stations.

OBSERVATIONS: New Brunswick Doe with Antlers, Thompson.

THE 369th MEETING—JANUARY 19th

Chairman, Coventry. Attendance, 24 + 2 visitors.

BUSINESS: Authorized the sending of names of ornithologist members on active service to A.O.U.

PAPERS: **The James Bay Expedition of 1942**, Hope, Shortt and Downing. A description of the topography of the west coast, illustrated by slides; a summary of the results of the expedition and specific mention of rare occurrences, by Hope. Shortt reported migration observations made to and from Fort Albany and displayed colour sketches of birds made in the field. Downing gave an account of the mammals and commented on the occurrence of earth worms.

THE 370th MEETING—FEBRUARY 3rd

Chairman, Lindsay. Attendance, 24 + 1 visitor

BUSINESS: Report of programme committee. Final report of committee on Dr. T. J. Cottle. Progress report of committee on Brodie biography.

PAPERS: **More on 'The Animal's World'**, Coventry. Discussed the known differences between the sense organs of certain lower animals and humans. Described how fish respond to visual stimuli; how certain insects respond to light, to scent, and to humidity. Behaviour pattern of certain invertebrates unalterable according to experiments; subject to alteration in birds.

Interesting Incidental Observations, Thompson. Showed how a considerable total of rare records accrues by chance. Mentioned a number of ornithological, entomological and botanical observations which were fortuitous.

THE 371st MEETING—FEBRUARY 16th

Chairman, MacArthur. Attendance, 23 + 1 visitor.

BUSINESS: Distribution of Proceedings No. 7. Decided that speakers should furnish abstracts of papers for Proceedings Committee.

PAPERS: **The Survival of Brown and Rainbow Trout in Ontario**, Dymond. A record of the survival of 2¾ million brown and 1¾ million rainbow trout planted in 165 and 100 waters respectively in Ontario.

Colour and Colour Patterns in Birds, Snyder. An introduction to the physics and function of colour. Discussed several apparently unreported cases of colour-and-pattern parallels in unrelated and geographically segregated birds. Specimens exhibited.

THE 372nd MEETING—MARCH 2nd.

Chairman, Owens. Attendance, 26 + 1 visitor.

BUSINESS: Election of S. Harrod to Active Membership. Funds collected for Red Cross. Illness of Dr. W. E. Saunders announced.

PAPERS: **Some Botanical and Other Sketches**, Macklin. An exhibit of drawings and paintings of plants and some historical drawings of sailing vessels, with explanatory remarks.

Examples of Similitude, Emery. By a series of computations on the blackboard the speaker demonstrated the relation of linear measurements to volume. Examples of the working of this principle in nature were cited.—leg size in relation to body build; size of stem on fruit in relation to weight of fruit.

THE 373rd MEETING—MARCH 16th

Chairman, Rutter. Attendance, 16.

BUSINESS: Committee appointed to secure membership biographical data.

PAPERS: **The Ivory-billed Woodpecker**, Outram. Review of Research Report No. 1 of the National Audubon Society by Jas. T. Tanner. Study of habits, food, etc.; estimate that 22 individuals now survive; recommendations for saving species from extinction.

Fungus Guns, Bell. Described the remarkable spore dispersal mechanisms developed by three distinct groups of fungi.

OBSERVATIONS: **Bird Behaviour**, Deacon (correspondence).

THE 374th MEETING—MARCH 29th.

Chairman, Dymond. Attendance, 23 + 1 visitor.

BUSINESS: Recommendation re the records of the Mycological Society. Annual meeting of the Federation of Ontario Naturalists announced, April 10th.

PAPERS: **Distribution of Dragonflies in Ontario, Walker.** Of the 350 species in North America, 149 found in Ontario. Only one species known to be migratory. Outlined ecological and geographical distribution of several. Distribution, zonal in some cases, interrupted in others. Lantern slides.

Three Diverse Aspects of Anthropological Observation, McIlwraith. The first subject dealt with an article on "Early History of Science and Learning in America." The second concerned problems in mammalian ecology; that uncivilized man and animals are closely integrated and that civilized man has adversely affected wild animal populations. The third subject in humorous vein concerned fictitious animals from anthropological literature. No specimens were exhibited.

THE 375th MEETING—APRIL 13th.

Chairman, Hope. Attendance, 17.

BUSINESS: Decided to hold Field Day on May 16th.

PAPERS: **Commentary on Juncos, Shortt.** An examination of Ontario specimens of Oregon Juncos revealed that they were close to *J. o. montanus*. Specimens and charts exhibited.

The Amazing Strength and Stamina of Animals, Lindsay. Although remarkable strength is exhibited by a number of animals, it is particularly noteworthy among the carnivores and anthropoids. Numerous instances which revealed the strength of various animals were cited.

OBSERVATIONS: **Local Breeding Sparrow Hawks, Harrington; Hoary Bat on Southampton Island, N.W.T., Downing; Microtus Parturition in February, MacArthur; Spring Migration at Niagara Falls, Sheppard (correspondence).**

THE 376th MEETING—APRIL 27th.

Chairman, Harrington. Attendance, 20.

BUSINESS: Decided to hold Field Day at Hogg's Hollow.

PAPERS: **Comments on a Trip to North Carolina, Campbell.** After stating the professional nature of his trip the speaker narrated his hunting experiences, for quail and bobcat, and gave a description of the country.

Rabbits and Hares, Downing. Explained the difficulty in technically defining the terms "hare" and "rabbit". Concluded they were synonymous in North America.

OBSERVATIONS: **Harbinger-of-Spring, A Rare Plant from Etobicoke Creek, Brown; Pileated Woodpecker at Cooksville, Richards; Phenological Data, Bell and Devitt; Notes from the Mouth of the Mackenzie to Bathurst Inlet, Clarke; Natural Resources Surveys in Saskatchewan, Rawson (correspondence).**

THE 377th MEETING—MAY 11th.

Chairman, Toner. Attendance, 21 + 1 visitor.

BUSINESS: Report of progress by the Membership biography committee.

OBSERVATIONS: **Tree-perching by the Pheasant, Bell and Emery; Local Bird Records and The Sense of Hearing in Snakes, MacArthur; The Destruction of Jackpine by Microtus and Blue Jay Habit, Rutter; History of the Pheasant in Ontario, Snyder; Turkey Vulture at Rouge River, Outram; Trap Warieness of the English Sparrow and A Swimming Black Squirrel and The Kentucky Warbler at Toronto, Lindsay; Yellow-breasted Chat at Toronto and A Nest of the Red-shouldered Hawk, Southam; Possible Effect of the Alaska Highway on Fur-bearers, Downing; A Toronto Turkey Vulture and Phenological Data, Emery; Local Nesting Records, Whelan; The Kentucky Warbler in Simcoe County and Other Records, Devitt.**

19th FIELD DAY—MAY 16th—HOGG'S HOLLOW

Ten members and three visitors attended. Rain, falling throughout morning, apparently held insects close to the ground and many observations of warblers feeding on or near the ground were made. A total of 70 bird species was recorded for the day.

THE 378th MEETING—SEPTEMBER 21st.

Chairman, Baillie. Attendance, 21 + 1 visitor.

BUSINESS: The Chairman announced that the Club was entering on its twenty-third year. Treasurer's Report. Report and re-appointment of the biographical committee. Dr. W. E. Saunders' death announced and discussion on a memorial programme ensued. McIlwraith returned to Active Membership. Nominations. The following were elected by acclamation:—**Membership Committee, Snyder, Coventry, Baillie; Programme Committee, Outram, Rutter, Bell; Conservation Committee, Dymond, Coventry, McIlwraith.**

OBSERVATIONS: A Favourable Year for Fungi, Bell; Robin Carrying Garter Snake and Beaver Population in Algonquin and Black-crowned Night Herons at Toronto, McIlwraith; Notes from Saskatchewan, Urquhart; The Status of Ducks and Doves in P. E. County, Lunn; Canned Seabirds and Coypu Rat at Chatham and Bird Quiescence in August, Snyder; A Roost of 5,000 Martins, Baillie; Foxes Abundant and Yellow-throated Warbler at Niagara Falls, Hurlburt; Records from Long Point, Southam; Liquidating a Public Enemy—A Screech Owl, Hope; Turtle Burying Eggs and Martin Migration and Late Date for Young Crows and Red-headed Woodpecker Eats Bread, Lindsay.

THE 379th MEETING—OCTOBER 5th

Chairman, Brodie. Attendance, 17 + 4 visitors.

BUSINESS: Tentative Programme for the year announced. Vote of thanks to retiring Secretary.

Elections: Secretary, Emery; Treasurer, Lindsay; Proceedings Committee, Snyder, Devitt (Emery, ex-officio); Library Committee, McDougall, Brodie, MacArthur.

PAPER: Thayer's Gull and Its Allies, Shortt. A review of its history and the presentation of evidence that suggested that the form should receive higher than subspecific status.

OBSERVATIONS: A Late Brood of the Hermit Thrush, Devitt; Black Squirrel Carrying its Young and Late Date for Night-Hawk and Red-eyed Vireo, Hope; Franklin's Ground Squirrel from Emo and Fox at Mount Dennis, Downing; An Electro-cuted Owl, Snyder; More on the Dearth of Birds in August, Whelan; Phenological Notes and Peculiar Behaviour of Spotted Sandpiper, Lindsay; An Escaped Exotic Crane, McDougall; Unusual Nesting Height of Yellow Warbler, Outram; Casa Loma Starling Roost, Thompson; Hybrid Flicker from Toronto, Baillie; Desiccated Toads Revive and Snapping Turtle from Capreol, Logier; Viability of Seeds, Bell and Brodie.

THE 380th MEETING—OCTOBER 19th

Chairman, Devitt. Attendance, 29 + 3 visitors

PAPERS: Summer Work at Put-In-Bay, Harkness. Described the archipelago at the western end of Lake Erie's south shore and the institution located thereon. Indicated nature of various researches in progress there, elaborating on fisheries problems.

Point Pelee Birds, Baillie Described the area, mentioned the biological literature dealing with it, discussed the situation as a station for migrational studies and reviewed his personal observations made there during seven visits.

OBSERVATIONS: Sportsmen Demand Hunting in Point Pelee Park, Dymond.

THE 381st MEETING—NOVEMBER 2nd.

Chairman, Harrington. Attendance, 23 + 1 visitor.

BUSINESS: Greetings and good wishes sent to Dr. Hadwen and Mr. Rippon.

PAPERS: Melanism in and Breeding Habits of the Eastern Garter Snake, Logier. Review of Blanchard's work on inheritance of melanism, effectiveness of double matings and contamination of broods by this in wild-mated females, and effect of mean temperature on period of development prior to birth.

Notes on the Ternate Group of Botrychiums, Brown.

After defining this group of ferns the speaker outlined the basis for existing taxonomic confusion and offered evidence of the specific distinctiveness of two forms about which there has been some question.

Conservation in Post-War Work, Brodie. Stressed the need of guarding our forest resources and of providing employment after the war. Reasoned that the national income could be maintained at a sufficiently high level to make a worthy programme possible.

OBSERVATIONS: Observations from Along the Alaska Highway, Clarke; Homo sapiens, My Mammalogical Concern, Cross.

THE 382nd MEETING—NOVEMBER 16th.

Chairman, Rutter. Attendance, 22 + 1 visitor.

BUSINESS: Announcement of Shortt's election to Membership in A.O.U.

PAPERS: Bella Lake Bird Notes, Devitt. After describing this section of Muskoka District, gave the highlights from four visits. One hundred species were recorded; 38 breeding. Illustrated with slides and specimens.

The Wild Turkey in Virginia, Hope. A review of Chas. O. Handley's book which treated the history, life history, and propagation and management of the wild turkey. Wild-mating system improvement over game farm methods.

Some remarks on Melanism and Its Geographic Distribution, MacArthur. Classified the types of melanism. Dealt particularly with the kind showing a bunched distribution. In the case of the Grey or Black Squirrel, traced the history showing changed distribution. Discussed the survival value of black pigment.

THE 383rd MEETING—NOVEMBER 30th.

Chairman, Outram. Attendance, 26 + 6 visitors.

PAPERS: Ashbridge's Marsh and Fisherman's Island from the 1890's to 1918, Mr. Frank Smith. Described the marsh and bars, the personalities who frequented the area, the important animal life and the subsequent changes. Lantern slides and maps.

Geographical Races Dymond. Defined the term, stated laws, gave examples, illustrated by specimens from various classes of animals and asked if man were similarly affected and could be similarly treated.

THE 384th MEETING—DECEMBER 14th

Chairman, Downing. Attendance, 23 + 2 visitors

BUSINESS: Decided to hold Christmas Bird Census on December 26th and a Committee was appointed. Best wishes sent to Wm. Le Ray. Tentative programme for Saunders Memorial Meeting on March 28th (1944) announced. Recent attainments of members in both military and civil life announced.

PAPERS: Some Notes on Spiders with Special Reference to a Small Collection made in the Toronto District, Harrod. First dealt with a few facts about spiders in general; enumerated the representatives of the various groups collected locally (15 families, 81 genera, 181 species, 1 new to science, 28 new to Ontario).

A Recent Trip to Guatemala, Fallis. Descriptions, observations, and impressions from southern countries gained on a trip to study tropical diseases. Lantern slides and maps.

19th CHRISTMAS BIRD CENSUS—DECEMBER 26th.

A total of 65 observers, which included 18 members of the Club, was organized by Baillie into 21 parties to cover the usual 8 routes. Fifty-five species of birds and a total of 10,553 individuals were recorded. The Baldpate and Oregon Junco brought the grand total of species for the 19 years to 108. The usual report for the Canadian Field-Naturalist and for a Club programme was compiled by Rutter.