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Biological Station Summer Session, 1921

State University of Montana (Missoula, Mont.)

Flathead Lake Biological Station

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STATE UNIVERSITY of MONTANA

BIOLOGICAL STATION

Located on Flathead Lake, P. O., Polson,
Montana

ANNOUNCEMENT OF SESSIONS OF 1921

June 18 to July 29
Six Weeks



MORTON J. ELROD, Director, Zoology
PAUL W. GRAFF, Botany
PERLEY M. SILLOWAY, Ornithology

Biological Station

Location: Yellow Bay, Flathead Lake, Montana. Postoffice, Polson; reached by the Northern Pacific railway, changing from the main line at Dixon for Polson; by the Great Northern, changing from the main line at Columbia Falls for Somers. Polson is sixteen miles by water, Somers twenty miles, from the Station. Passengers may reach the Station from either place by boat or automobile.

The Station owns 90 acres of land on the lake shore, covered with virgin forest, and 70 acres on the islands of the lake. The lake shore line of the Station grounds is nearly a mile and a half. The lake width at this point is nearly 20 miles. The depth in front of the building is 125 feet.

The Mission (Sinyaleamin) mountains rise almost abruptly from the lake to 8,500 feet, densely wooded. Nearby, easily reached by the Station boat, are the inlets of Swan and Flathead rivers, the lake outlet with its beautiful rapids, prairies, a swamp of several thousand acres, and mountain cliffs and slopes.

Equipment: A two-story brick building, the first floor of cement; a dining room in a log house; a kitchen with range and utensils; water from cold spring through 850 feet of pipe to all buildings; a boat house; a gasoline boat for 18 people; a smaller gasoline boat and a row boat; 13 tents, 11x14, high walls, board floors, and necessary accessories; microscopes, utensils, nets, dredges, collecting apparatus, books, etc., for general use; a collection of plants of the locality; a collection of bird skins; a collection of insects.

The Working Region: The lake covers nearly 200 square miles. It varies in depth from extensive swamps to 300 feet. The mountains rise to sub-alpine and alpine zones. A hundred miles of forest reserve begins at the Station door. At either end of the lake and on the west are extensive prairies. The entire country is glaciated, with wonderful glacial

results. The fauna and flora are rich and varied. The field adjacent to the laboratory presents exceptional facilities for both elementary and advanced study. Taxonomic work in both botany and zoology can be pursued with good results. Ecological studies may be carried on in many directions. The large lake, with forests on either side and prairie at the ends, makes a peculiar environment, the study of which has had little attention.

Climate: No hot weather; cool and delicious air of woods; no dust; days warm and pleasant; cool nights; fine lake breeze; richly perfumed pine woods; fine mountain summer weather; June rains, making abundant vegetation.

Excursions: All-day excursions at each week-end to places of interest, some of which are as follows: To the big swamp; to Wild Horse Island, 1,200 feet above the lake, glaciated over entire summit; to Daphnia pond, made by glaciation; to the delta of Flathead River; to the falls and rapids at the outlet of the lake; to the big sawmill at Somers; to sub-alpine and alpine mountain heights. A trip to Glacier Park when the Station closes is possible for all those who desire it.

Length of Session: Six weeks, from June 18 to July 29, 1921.

Recreation: Besides the excursions those who attend may indulge in mountain climbing, walking, boating, swimming, sketching, etc. Those who like water and deep woods will be delighted.

Expenses: Fee for the session, \$10.00. Camp fee, \$5.00. This is for the expense of boats and general upkeep of the place. Tents are rented, two in a tent, for \$5.00 per person for the season. Good table board is furnished at cost. There are no other charges, and everything is free for the use of those attending, including boats, microscopes, nets, dredges, etc.

Plan of Work: The Biological Station is a field laboratory. Field work will be given emphasis, and such lines of study and investigation will be given as can be given to better advantage than is afforded

by the regular University sessions. Each course offered will be planned to occupy half of the full time of the students taking it. Excursions to the lake, fields, woods, or mountains will be taken as often as necessary.

University Credit: The requirements for admission to the Biological Station are the same as those for entrance to the College of Liberal Arts. The courses in general zoology and botany are open to all students. A maximum of ten credits may be obtained by doing full work.

The following courses are offered in 1921:

11. General Zoology. Adapted to students in general, to teachers, to students desiring a general foundation in zoology, and to medical students (5 hours of credit.) Mr. Elrod.

22. Advanced Zoology. Credit and hours to be arranged. Mr. Elrod.

11. General Botany. Adapted to general students, to teachers, and to those who desire a general foundation in botany. (5 hours of credit.) Mr. Graff.

161. Advanced Botany. Credit and hours to be arranged. Mr. Graff.

14. Ornithology. Adapted to general students, to teachers, and to those who wish to study birds for the love of birds. (5 hours of credit.) Mr. Silloway.

131. Research. Limnology, parasitology, entomology, ornithology, mycology; ecology (botany or zoology). (Credit and time to be arranged.) Mr. Elrod, Mr. Graff, Mr. Silloway.

Personal Equipment. Those attending must supply their own bed clothes, towels, and linen. They should each have a pair of heavy walking shoes. Clothing suitable for woods travel should be provided.

For other information address the director, Morton J. Elrod, State University, Missoula, Montana. After June 15th, address Polson.