

climatology and soil classification, soil survey, texture, structure, color and water relationships of soils; minor elements in relation to plant growth; methods for the determination of trace elements, including chemical, spectrographic and polarographic methods; soil acidity and lime requirement, including use of the glass electrode; the conductivity method for the determination of soluble salts and the electrometric method for the determination of soluble chlorides; wet and dry combustion methods for the determination of soil carbon; soil-rhizobium relations; a one-day excursion through the country near Adelaide, with examination of several soil profiles.

Dr. A. Walkley, of the Waite Institute, is secretary to the school.

THE FIELD PROGRAM OF THE NATIONAL MUSEUM OF CANADA

Six parties have been placed in the field this year by the National Museum of Canada, according to an announcement made by the Mines and Geology Branch of the Department of Mines and Resources, Ottawa. The program includes biological investigations in British Columbia and New Brunswick; botanical studies in Ontario; ethnological researches in British Columbia and the Prairie Provinces, and archeological work in Ontario and Quebec. The work is directed toward the gathering of new information on Canadian fauna and flora and native races, and the acquiring of new specimens for the National Museum.

C. M. Barbeau will make ethnological studies of the Indians of the northern coast of British Columbia, in a resumption of work first undertaken many years ago.

J. D. Leechman will collect anthropological specimens from the tribes of Indians of the Prairie Provinces.

W. J. Wintenberg will make excavations of prehistoric village sites at Tadoussac and Chicoutimi, Quebec, and at Dunnville and Port Maitland, Ontario. Last year he established the site of the Mission of St. Ignace II, the scene of the martyrdom of Fathers Bréboeuf and Lalemant.

H. M. Laing will continue the biological survey along the Pacific coast of British Columbia which has been in progress for some years.

T. M. C. Taylor will make a botanical survey in the vicinity of Heron Bay on the north shore of Lake Superior, Ontario.

W. E. Godfrey will collect zoological specimens and record wild-life observations in the western part of New Brunswick.

SYMPOSIUM ON GROWTH AND DEVELOPMENT

A SYMPOSIUM on "Growth and Development" will be held from August 7 to 11, sponsored by the editors

of *Growth*, at Truro Central School, North Truro, Mass.

The announcement of the objects of the symposium reads:

Biologists are finding themselves increasingly perplexed by the lack of an adequate conceptual framework with which to guide their own investigations and to bring the results of many specialized studies into a more coherent and meaningful relationship. There is an especially acute need for bridging the gap between genetics and embryology and examining the implications of highly diverse findings of experimental biology for an understanding of growth and development. The editors of *Growth* have therefore decided to inaugurate a Conference on Growth and Development at which discussions of these theoretical issues will be held in the hope of achieving some clarification and unification of thinking in these areas. Grants towards the cost of the conference have been received from the Macy and Rockefeller Foundations. Each session will be opened by a presentation of one paper, the discussion of which will be initiated by a designated leader for that topic, and during the course of the conference moving pictures related to growth and development will be shown. It is hoped that the last day of the conference may see some efforts at generalizing and synthesizing the outcome of the previous days' discussions. It is planned to issue proceedings of the conference, at least in summary form, as a supplement to *Growth*. It is expected that a society will be formed by persons interested in growth during the period of the conference.

The sessions will last from 9:30 in the morning to 3 o'clock in the afternoon, excepting on Friday, when there will be only a morning session.

The program follows:

August 7—"Cell Division and Differentiation," W. H. Lewis and P. W. Gregory.

August 8—"Genes and Development," Curt Stern and C. H. Waddington.

August 9—"Chemical Factors," J. Needham.

August 10—"Regeneration," O. E. Schotte; "Organization," E. W. Sinnott.

August 11—"Concept of Organism," J. H. Woodger.

Discussion Leaders—L. G. Barth, H. S. Burr, L. B. Clark, A. B. Dawson, O. Glaser, H. S. Greene, V. Hamburger, L. Rapkine, K. V. Thimann, Paul Weiss.

Members of the program committee are N. J. Berrill, C. B. Davenport and D. M. Whitaker. Those interested should write to Dr. Philip White, Rockefeller Institute for Medical Research, Princeton, N. J., or to Dr. F. S. Hammett, Provincetown, Mass., for specific invitation and for further information.

SUMMER MEETINGS OF MATHEMATICIANS

THE summer meeting and colloquium of the American Mathematical Society and the twenty-second summer meeting of the Mathematical Association of