

genetics and breeding exhibits will be open for inspection and they will be demonstrated in the afternoon. Members will have the opportunity to visit the laboratories of the station, to view the collections of the living fruit and vegetable material, and to attend demonstrations of experimental work.

THE CYRUS FOGG BRACKETT PROFESSORSHIP OF PHYSICS AT PRINCETON UNIVERSITY

PROFESSOR RUDOLPH WALTER LADENBURG, of the Kaiser Wilhelm Institut für physikalische Chemie, has been appointed to the Cyrus Fogg Brackett professorship of physics at Princeton University. This is a research professorship and enables the holder to devote his full energies to furthering research in experimental physics at Princeton. He is the second incumbent and successor of Dr. K. T. Compton, who left Princeton to become president of the Massachusetts Institute of Technology. Professor Ladenburg was in Princeton last year as visiting professor.

In connection with the appointment provision has been made from the local research endowment and a special grant from the Rockefeller Foundation for the inauguration in Princeton of two new lines of fundamental research. One involves the development of high potential sources for study of the atomic nucleus. The other includes the installation of a liquid hydrogen plant for studies on the spectroscopy of the solid state.

The high potential program includes a kenetron rectification outfit for steady potentials up to 600,000 volts with which to study artificial disintegration

processes along lines similar to those so successfully employed by Cockroft and Walton in the Cavendish laboratory. Work has also been started on the construction of a high potential electrostatic machine of the type developed at Princeton last year by Dr. R. J. Van de Graaff. This part of the program is the work of Dr. H. A. Barton, director of the American Institute of Physics. The machine which is being built for him employs Van de Graaff's principle but will be in an atmosphere of compressed air to reduce insulation difficulties which present themselves when such a machine is operated under ordinary atmospheric pressure.

The liquid hydrogen plant will be the fourth in America, others being at the chemistry department of the University of California, the Bureau of Standards at Washington and the University of Toronto physical laboratory. By going to these extremely low temperatures complications of the spectrum of solids present at ordinary temperatures are largely eliminated by the reduction of the heat motions of the atoms. In recent years the study of molecular spectra in gases has given a great deal of information about the nature of the chemical valence forces. Similarly the spectroscopy of the solid state will give information concerning the nature of the forces which hold crystals together. Besides this use the Princeton cryogenic laboratory will also provide the chemists under Professor H. S. Taylor with means for extending their studies of chemical kinetics and of the thermodynamic properties of matter at these low temperatures.

SCIENTIFIC NOTES AND NEWS

DR. ROSS GRANVILLE HARRISON, professor of biology at Yale University, received the degree of doctor of science from the University of Dublin on June 29.

THE University of Heidelberg has conferred an honorary doctorate on Dr. Henry Drysdale Dakin, research chemist, Scarborough-on-Hudson, New York.

AT the fifty-fifth annual commencement of the University of Oregon, the honorary degree of doctor of laws was conferred on Dr. Henry Baldwin Ward, head of the department of zoology, University of Illinois, "in recognition of his outstanding scholarship in biological sciences and his constructive work in the conservation of wild life and natural resources."

DR. THURMAN D. KITCHIN, president and dean of the department of medicine, Wake Forest College, Wake Forest, received the honorary degree of doctor of laws at the recent commencement at Duke University.

THE degree of doctor of science was conferred at the commencement of Doane College, Crete, Nebraska, on C. F. Curtis Riley, assistant professor of zoology at the University of Manitoba. Professor Riley is a graduate of Doane College in the class of 1901.

A BUST of Dr. Frederick G. Banting, Toronto, co-discoverer of insulin, will be unveiled at a summer camp for diabetic children near Cleveland on July 31. Dr. Banting will be present at the ceremony, which is sponsored by Dr. Henry J. John and the directors of the camp.

DR. ANTON J. CARLSON, chairman of the department of physiology of the Graduate School of Medicine of the division of biological sciences of the University of Chicago, has given the initial contribution toward a fund of \$30,000 to provide a fellowship in honor of Dr. Arno Benedict Luckhardt, professor of physiology in the school. It is planned that the fellowship is not to be awarded until the fund reaches