

### RESEARCH FELLOWS AT YALE UNIVERSITY

EIGHTY-FIVE research projects are being carried on at Yale University this year by a similar number of research fellows who already have the Ph.D. degree. Many of them are recipients of fellowship awards by the Yale Graduate School or by outside organizations; others are members of the faculties of colleges and universities to whom the facilities of its faculties, its libraries and laboratories have been made available without charge. Eleven foreign countries and eighteen foreign and sixty-two American institutions of higher learning are represented among this group of scholars.

Among those carrying on research in the sciences are:

Dr. Charles D. Bock, of South Bend, Indiana, is making a study of the fundamental phenomena involved in the interaction between ions and gases. Dr. John S. Burlew, of New Haven, Conn., is beginning a coordinated series of researches on the nature of the liquid state. Dr. Tze Tuan Chen, of Foochow, China, is extending his study of the mechanism of heredity among some unicellular organisms.

Dr. Marion E. Howard, of New York City, is conducting research on vitamins. Dr. Fred E. Ingerson, of Barstow, Texas, has undertaken a study of petrofabrics.

Dr. Orvel H. Mowrer, of New Haven, Conn., is studying specific reflexes elicited in certain sense organs in the non-acoustic portion of the otic labyrinth. Dr. Sidney S. Newhall, of New Haven, in cooperation with Dr. Deane B. Judd, of the Colorimetry Section of the Bureau of Standards, is making a scientific study of the nature and course of chromatic adaptation.

Dr. Ernest C. Pollard, of Lincolnshire, England, continues his investigation of the light atomic nuclei. Dr. William C. Randels, of Alma, Michigan, is studying mathematical problems in connection with the Fourier series under the direction of Professor Hille.

Dr. Helen G. Richter, of New Haven, is attempting a completion of data obtained on sympathetic vaso-motor pathways and their central connection. Dr. Julien A. Ripley, Jr., of Hamden, Conn., is continuing research on the philosophy of science.

Dr. Harold H. Williams, of Howard, Pa., is extending his research to the possible rôle of cholesterol in fat mobilization. Dr. Max Zorn, of Hamburg, Germany, is attempting to develop an elementary method in studying higher laws of reciprocity in the field of mathematics.

Two Bishop Museum fellows are conducting research in the islands of the Pacific: Dr. Horace B. Baker, of Philadelphia, Pa., is making an anatomical and systematic study of the Pacific Zonitidae at the Bishop Museum under the direction of Dr. C. Montague Cook, Jr. Dr. Ernest Beaglehole, of Wellington, New Zealand, is making a general ethnographic study at Puca Puca in the Tuamotu group of islands. In the field of chemistry, Dr. Robert O. Bengis, of New Haven, is holder of the Standard Brands, Inc., fellowship; Dr. Werner Berg-

mann, of New Haven, and Dr. Mearl A. Kise, of Allentown, Pa., hold Textile Foundation, Inc., fellowships; Dr. John A. Crowder, of New Haven, and Dr. Frank Stodola, of Hopkins, Minnesota, are working under the auspices of the National Tuberculosis Association; Dr. Kathleen O. P. Jackson, of Devon, England, is the holder of a Henry Fund fellowship, and Maurice L. Moore, of Crestview, Fla., is A. Homer Smith fellow.

The following held fellowships from the General Education Board: Dr. Adrian Buyse, of Rochester, New York, in zoology; Dr. Harry G. Day, of Chariton, Iowa, in physiology; Dr. William W. Greulich, of Los Altos, California, in anatomy; Dr. Sander E. Lachman, of Baltimore, Maryland, in clinical medicine, and Dr. John B. Wolfe, of Dryden, Virginia, in psychology. The National Research Council is represented by the following: Dr. Harold E. Clark, of Montague, Massachusetts, in botany and physiological chemistry; Dr. Jack M. Curtis, of St. Louis, Missouri, in anatomy; Dr. William U. Gardner, of Columbia, Missouri, in anatomy, and Dr. Louis S. Goodman, of Portland, Oregon, in pharmacology and toxicology. Recipients of Rockefeller Foundation fellowships are: Dr. George Seth, of Edinburgh, Scotland, in psychology, and Dr. Donal Sheehan, of Manchester, England, in physiology. Holders of Alexander Brown Coxie Memorial fellowships are: Dr. Jane L. Chidsey, of Easton, Pa., in physiology; Dr. William G. Gordon, of New York City, in physiological chemistry; Dr. Arild E. Hansen, of Minneapolis, Minnesota, in clinical medicine and pathology, and Dr. James M. Orten, of Denver, Colorado, in physiological chemistry. The Davis and Geck fellows are: Dr. Irving Friedman, of New York City, and Dr. Orvan W. Hess, of Margaretville, New York, both in surgery.

### SYMPOSIUM IN THEORETICAL PHYSICS AT THE UNIVERSITY OF MICHIGAN

THE Symposium in Theoretical Physics at the University of Michigan will be held between the dates of June 24 and August 16. Professor Enrico Fermi, of the Royal University of Rome, will lecture throughout the session on "Selected Subjects in Quantum Mechanics." He will place special emphasis upon applications to nuclear physics and other recent developments. Professor Felix Bloch, of Stanford University, will present the "Quantum Theory of the Metallic State." His lectures will extend from July 1 to July 26 and will treat theoretically the various properties of metals. "The Theory of Atomic Spectra" including interpretations of line spectra, the many electron problems, hyperfine structure and nuclear spin, will be offered by Professor S. A. Goudsmit, University of Michigan. He will lecture throughout the session. Professor G. E. Uhlenbeck, of the University of Michigan, will lecture for the first half of the session on "Advanced Quantum Mechanics." The Dirac theory of the electron and positron will receive special attention.

In addition to the formal lecture courses, there will be a series of informal seminars throughout the ses-