

works on the feeding of livestock. Dyakov has worked out and introduced the individual feeding of livestock, and has also elaborated upon the principles of the combined-fodder industry.

Stalin prizes have also been awarded for the best works of historico-philologic sciences, including collective work group authors, under the guidance of V. Potemkin, "History of Diplomacy."

ANTHROPOLOGICAL SURVEY OF THE PEOPLE OF THE UNITED PROV- INCES OF INDIA

ACCORDING to *Current Science*, a monthly Indian journal corresponding in scope to *Nature* and *SCIENCE*, the Government of India on the recommendation of the census commissioner for India has sanctioned a grant-in-aid for the statistical analysis of the anthropometric data collected by Dr. D. N. Majumdar, of the Lucknow University, in collaboration with the late census superintendent of the United Provinces in respect of the castes and tribes of the provinces. In view of the scientific importance of the work the Statistical Laboratory, Calcutta, under the direction of Professor P. C. Mahalanobis, has agreed to share half the cost of this analysis out of its own funds. The total cost is estimated at Rs.9,000.

Measurements relating to about 4,000 individuals have been collected in accordance with accepted modern technique. The material offers a valuable opportunity for a critical and scientific examination of the very foundations of Indian anthropometry. An appropriate statistical tool is available in the Generalized Distance (D^2 -Statistic) the validity of which was fully acknowledged by Professor R. A. Fisher in his paper on "Statistical Utilization of Multiple Measurements" (*Annals of Eugenics*, 1938, 8, 376). It has not been possible, however, to use this new tool so far for lack of suitable material.

It is pointed out that a detailed analysis of the anthropometric material collected now will help in solving the basic problems of comparative anthropometry. It will show, for example, how far the generalized distance can be used for an objective classification of castes and tribes or races of human beings. Secondly, it will enable a standard panel or list of measurements being selected for comparative purposes. This will not only simplify and standardize the procedure of field work in anthropology but will enable valid comparisons being made between measurements taken by different observers. Thirdly, it will enable a critical comparison being made between results based on physical and cultural methods of study. Finally the proposed analysis will supply a scientific basis for the comparative anthropology of the United Provinces and North India generally.

A joint report by Professor P. C. Mahalanobis and

Dr. D. N. Majumdar will be submitted to the government of India. Besides this survey, a monograph on some of the important tribes and castes of the United Provinces will also be published for which the Provincial Census authorities have already sanctioned Rs.1,500.

THE INTERNATIONAL GRADUATE SCHOOL EXCHANGE

THROUGH the generosity of the W. K. Kellogg Foundation of Battle Creek, Mich., the Pan American Congress of Ophthalmology announces the establishment of an international graduate student exchange. With the cooperation of the Department of State of the United States Government, twenty-five graduate physicians from Latin America will be brought to the United States for graduate training in ophthalmology. They will be assigned in turn to seventeen of the leading ophthalmic institutions to serve as accessory residents for a minimum of one year, or longer if they show unusual ability. The traveling expenses to and from the country of origin will be paid and each man will receive one thousand dollars a year from the foundation.

The Latin American physicians will be chosen by a committee in each country composed of the dean of the medical school, the professor of ophthalmology and an already existing committee of the American Legation under the supervision of the Department of State. The number of scholarships allotted to each country will be based upon the population and upon the number of ophthalmologists in the country. Applications must be filled through the local professor of ophthalmology and forwarded to the secretaries of the Pan American Congress of Ophthalmology. Those south of Panama are to be sent to Dr. M. Alvaro, São Paulo, Brazil, and those north to Dr. Conrad Berens, New York City. Each application must contain full information regarding the candidate and must bear an exhaustive endorsement by the professor of ophthalmology. After preliminary consideration by the secretarial board of the congress the applications will be returned to the local committees for the selection of candidates. Information about the selectees will be sent by the local committees through the secretaries of the Pan American Congress of Ophthalmology to the foundation for final acceptance.

The following institutions are participating:

The Massachusetts Eye and Ear Infirmary; the Ophthalmic Institute of Columbia University; Bellevue Hospital and College; New York Eye and Ear Infirmary; Wills Eye Hospital of Philadelphia; Wilmer Institute of the Johns Hopkins University; the University of Michigan; the University of Cincinnati; Northwestern University; the Illinois Eye and Ear Infirmary; Cook County Hospital; the Mayo Clinic; the State University of Iowa; Washington University of St. Louis; Tulane University

in New Orleans; Leland Stanford University, and the University of California.

WESTINGHOUSE RESEARCH FELLOWS

DR. E. U. CONDON, associate director of the Westinghouse Research Laboratories, announces that three scientific men selected from leading universities have been awarded fellowships to carry on their investigations at the laboratories. The appointees are Dr. Russell E. Fox, University of Virginia; Dr. Gerson S. Schaffel, Carnegie Institute of Technology, and Dr. Robert S. Weisz, Cornell University.

At the Westinghouse Laboratories, Dr. Fox will carry on research on the dynamics of high-speed machinery which he began at the University of Virginia under Professor J. W. Beams. Dr. Schaffel will engage in research on the chemistry of polymers, a basic substance of all plastics, and Dr. Weisz will work in the field of ceramics, specifically attempting to improve the properties of electric porcelain.

This is the fifth group to be selected under the Westinghouse Research Fellowship plan inaugurated in 1938. Appointments are for one year, with reappointment for a second year if mutually desirable. In the past these men have devoted their entire time to investigations in the realm of pure science. This year, however, they have been asked to indicate the fields in which they feel qualified to contribute to war research if their assistance should be required. Three of last year's appointees now are engaged in war research.

Of last year's fellowship winners, Dr. Thomas W. Dakin, Harvard University, has been reappointed for a second year's study. Dr. James S. Koehler, of the University of Pennsylvania, has been granted a year's leave of absence to act as instructor of physics at the Carnegie Institute of Technology. Three other 1941 appointees have joined the Westinghouse research staff. They are Dr. Daniel Alpert, Stanford University; Dr. John W. Coltman, University of Illinois, and Dr. Theodore Holstein, New York University.

THE INDUSTRIAL RESEARCH INSTITUTE

THE fourth annual meeting of the Industrial Research Institute was held in Cleveland, Ohio, on May

22 and 23, with headquarters at the Hotel Statler. Over fifty industrial executives and research directors participated in round table discussions which dealt chiefly with the adjustment of research programs and personnel to meet war conditions.

H. S. Benson, administrative engineer, Research Division, United Shoe Machinery Corporation, Beverly, Mass., was elected chairman, and Wm. R. Hainsworth, vice-president, Servel, Inc., New York, vice-chairman, of the executive committee for the ensuing year. Two new members of the committee were also elected for three-year terms, Philip W. Pillsbury, president of the Pillsbury Flour Mills Company, Minneapolis., and Harold K. Work, manager of research and development, of the Jones and Laughlin Steel Corporation, Pittsburgh.

Guest speakers at a dinner session on Friday evening were Dr. George Crile, the Cleveland surgeon, and his associates, Dr. Otto Glasser and Dr. D. P. Quiring. They described their researches into the nature of the living cell, which have been carried on for the past ten years under the auspices of the Cleveland Clinic Foundation. Inspection visits to the new Thompson Aircraft Products Company plant at Euclid, Ohio, and the General Electric Institute at Nela Park, occupied the members and their guests on Friday afternoon.

The Industrial Research Institute, an affiliate of the National Research Council, undertakes to promote improvement of methods and more economical and effective management in industrial research through the cooperative efforts of its members. The membership is composed of forty-five industrial concerns maintaining research laboratories. Their chief executives in charge of research represent them in the activities of the institute, which has headquarters in Chicago. Other members of the executive committee are F. W. Blair, chemical director, the Procter and Gamble Company, Ivorydale, Ohio; Caryl P. Haskins, president, Haskins Laboratories, New York; Maurice Holland, division of engineering and industrial research, National Research Council, New York, and R. C. Newton, vice-president, Swift and Company, Chicago.

SCIENTIFIC NOTES AND NEWS

BATES COLLEGE, at its commencement exercises on May 24, conferred the doctorate of letters on Dr. Harlow Shapley, director of the Harvard College Observatory.

At the ninety-second annual commencement exercises of the University of Rochester on May 11, the honorary degree of doctor of science was awarded to

Dr. Sewall Wright, distinguished service professor of zoology at the University of Chicago, and to Dr. Frederick Fuller Russell, emeritus professor of preventive medicine and epidemiology at Harvard University.

THE University of New Mexico at its commencement exercises on May 11 conferred the degree of doctor