

hitherto have taken censuses of agriculture and very few of these refer to the same year. Annual statistics of principal agricultural products published by most of them are simple approximations of estimates which can be relied on only slightly.

The institute in 1925 established an office in Rome headed by specialists. Its first task was to formulate

a program for the world census and then to prepare the questionnaires in all languages of the world, with clear indications for answering them to insure uniformity. Final figures on the census have begun reaching Rome. It is hoped that before the end of the year the material will be complete, permitting publication of the census.

SCIENTIFIC NOTES AND NEWS

PROFESSOR ALBERT PERRY BRIGHAM, professor of geology at Colgate University since 1892 and consultant of geography at the Library of Congress in Washington, will represent the American Geographical Society at the one-hundredth anniversary of the Royal Geographical Society in London in October.

DR. JOHN FARQUHAR FULTON, JR., of Oxford University, has been appointed Sterling professor of physiology at Yale University. Dr. J. G. Dusser de Barenne, formerly professor of physiology at the University of Utrecht and neurologist at St. Antonious Hospital, has been appointed professor of physiology.

DR. JOHN M. THOMAS, president of Rutgers University since 1925, will resign soon to become a vice-president of the National Life Insurance Company of Montpelier, Vt.

MR. JULIUS ROSENWALD, founder of the Museum of Science and Industry, at Chicago, is the recipient of the golden ring of the museum presented by the government of the Free State of Bavaria. Consul General H. F. Simon presented the ring to Mr. Rosenwald on behalf of the Bavarian Ministry of Education and Culture.

THE British Institution of Civil Engineers has awarded Telford Gold Medals to Messrs. David Anderson and B. B. Haskew and a Watt Gold Medal to Mr. A. E. L. Chorlton.

THE Alvarenga Prize of the College of Physicians of Philadelphia has been awarded to Dr. H. A. Harris, assistant professor of anatomy at the University College, London, for an essay entitled "Cod-liver Oil and the Vitamins in Relation to Bone Growth and Rickets."

THE following appointments have recently been announced by Princeton University: Dr. Eugene Pacsu, formerly a member of the faculty of the University of Budapest, has become assistant professor of chemistry; Dr. Edward U. Condon, formerly professor of theoretical physics at the University of Minnesota, has become associate professor of physics; Lewis F. Moody, prominent industrial engineer and

a former member of the faculty of the University of Pennsylvania and of Rensselaer Polytechnic Institute, has become professor of hydraulic engineering; Clyde Whipple, of the Brooklyn Polytechnic Institute, is visiting associate professor of engineering.

DR. ROBERT KEITH CANNAN, of the University of London, has been appointed professor of chemistry at the medical college, New York University.

DR. HARRY G. PARKER, formerly of William Jewell College, has been appointed professor and head of the department of chemistry at Park College.

THE president of Union College announces the following additions to the faculty: Vladimir Rojansky, associate professor of physics; Russell A. Hall, assistant professor of civil engineering, and Egbert K. Bacon, instructor in chemistry.

AMONG the more important appointments at the University of New Hampshire are: Dr. James A. Funkhouser, assistant professor of chemistry, recently instructor in organic chemistry at Ohio State University, and Charles O. Dawson, recently employed on topographic survey work for airports in St. Louis and in Pennsylvania, instructor in civil engineering.

PROFESSOR DUGALD C. JACKSON, JR., formerly head of the department of mechanical and electrical engineering in the Speed Scientific School of the University of Louisville, has been appointed head of the department of electrical engineering in the University of Kansas.

THE following additions will be made to the faculty of the department of psychology at the University of Kentucky: Dr. Martin M. White, assistant professor; Dr. Henry Beaumont, executive secretary of student personnel service; Dr. Graham B. Dimmick, in charge of advanced courses, and Mr. Edward Newbury, instructor. They replace Dr. Paul L. Boynton, Dr. Gardner C. Bassett and Dr. James L. Graham, who have accepted positions at the George Peabody College for Teachers, Gettysburg College and Lehigh University, respectively.

DR. OSCAR EDWARD HERTZBERG, formerly professor of educational psychology in the Colorado State

Teachers College at Greeley, has accepted a position as head of the new department of educational psychology at the New York State Teachers College at Buffalo.

LEIF VERNER, formerly assistant professor of horticulture at the University of Idaho, has been appointed assistant professor of horticulture, assistant horticulturist and extension horticulturist at the West Virginia Agricultural Experiment Station. G. Gordon Pohlman, formerly assistant in agricultural chemistry at the University of Idaho, has been appointed assistant professor of agronomy and assistant agronomist. French M. Hyre, assistant county agent of Greenbrier County, has been appointed an assistant in farm economics. He will conduct the field work in the study of farm cooperatives of West Virginia in cooperation with the Federal Farm Board.

THE following appointments have been made at the University of Wisconsin: Edward M. Searles, assistant professor in economic entomology; Edward W. Azpell, instructor in steam and gas engineering; William R. Birnbaum, assistant in anatomy, and Louis Pruess, research assistant in agricultural bacteriology.

WE have been notified by George I. Cochran, president of the board of trustees of the University of Southern California, of the following additions to the faculty of the university. Appointments in the school of medicine are as follows: Dr. Daniel B. MacCallum, assistant professor of anatomy; Dr. Howard F. West, clinical professor of medicine; Dr. John C. Ruddock, Dr. Bertrand Smith, Dr. Arthur S. Granger and Dr. Roy E. Thomas, assistant clinical professors of medicine. Additions to the College of Letters, Arts and Sciences, are: Dr. Donald H. Loughbridge, physics; E. L. Bikerbike, J. E. Lawrence and Antonio Gandara, chemistry; Dorothy Fox, zoology; Dr. W. B. McDougall, botany; Thelma Littrell, mathematics; and the following in the department of physics-optics: Dr. Elmer R. Jones, supervisor of refraction laboratory; W. B. Clark, Dr. J. C. Goodsell, Dr. Arthur E. Hoare, Carrie B. Hooker, Dr. Ernest A. Hutchinson, Percy C. Kinney, Dr. Harry J. Hoare, and Leslie W. Seown, lecturers. In the College of Engineering Nathan C. Clark has been appointed instructor in electrical engineering; A. E. Stevens, instructor in general engineering, and James M. Shoemaker, lecturer in aeronautical engineering.

DR. CHARLES SCOTT BERRY, professor of educational psychology at the University of Michigan and consultant in special education for the Detroit public schools, has been appointed to the staff of the state department of education of Ohio in the newly created office of consultant in the education of the mentally handicapped.

THE appointment of Francis X. Schumacher as chief of the section of forest measurements in the Forest Service, U. S. Department of Agriculture, has been announced by R. Y. Stuart, chief forester. Mr. Schumacher, who has been teaching forestry in the University of California, will assume his new duties in Washington on October 1. He will succeed V. A. Clements, who will take up duties at the California Forest Experiment Station.

DR. MAX M. ELLIS, professor of physiology in the school of medicine of the University of Missouri, has been appointed to a responsible directive post as an investigator in the U. S. Bureau of Fisheries. While the fish cultural investigations now conducted at Fairport will still remain under the direction of Dr. H. S. Davis, the biological activities of the station will be supervised by Dr. Ellis.

DR. AUSTIN M. CRAVATH, Dr. John H. Findlay and Dr. Charles A. Swartz have been added to the staff of the research department of the Union Switch and Signal Company at Swissvale, Pa.

PROFESSOR DR. KEIJIRO ASO, of the Tokyo Imperial University, a well-known agricultural chemist who was one of the early students of Professor Oscar Loew and who was an official delegate to the International Congress of Soil Science which was held in Russia last July, will visit the United States in October on his way back to Japan. He will lecture at several places while he is here.

DR. EMILE HOLMAN, professor of surgery in the school of medicine of Stanford University, San Francisco, has been granted leave of absence during the autumn quarter to serve as visiting professor of surgery in Peiping Union Medical College, Peiping, China. During August, Dr. Holman visited Japan and gave lectures and clinics at the Severance Union Medical College, Seoul, Korea.

FATHER STEIN, S.J., has been named as director of the Vatican astronomical observatory. He succeeds the late Father John George Hagen.

THE Society of American Bacteriologists will hold its annual meeting under the presidency of Professor S. Bayne-Jones at the Massachusetts Institute of Technology from December 29 to 31, 1930. Dr. Barnett Cohen, of the Johns Hopkins School of Medicine, is in charge of the program.

THE regular annual two-day meeting and conference of the committee on electrical insulation of the division of engineering and industrial research of the National Research Council will be held on November 7 and 8, 1930, at the Bureau of Standards, Washington, D. C. The meeting will include three technical sessions at which eighteen informal papers reporting

current progress in dielectric and insulation research will be presented. On Friday evening, November 7, there will be a subscription dinner, followed by an illustrated lecture by a prominent physicist on recent advances in dielectric theory. A complete statement of the program will be announced shortly. Dr. J. B. Whitehead is chairman of the committee.

THE board of canvassers of the American Pharmaceutical Association, composed of T. C. Marshall, J. B. Pendergrast and Sinclair Jacobs, announce the election of the following for officers of the association: *President*, Walter D. Adams, Forney, Texas; *first vice-president*, J. G. Beard, Chapel Hill, N. C.; *second vice-president*, J. W. Dargavel, Minneapolis, Minn.; *members of the council* (for three years), H. A. B. Dunning, Baltimore, Md.; S. L. Hilton, Washington, D. C.; Ambrose Hunsberger, Philadelphia, Pa. These officers will be installed at the next annual meeting of the association which will be held in Miami, Florida, from July 28 to August 1, 1931. Mr. G. H. Grommet, who has been elected local secretary, is also secretary of the local committee on arrangements of which J. K. Klemmer is chairman and I. Clif. Smith is treasurer. The 1932 meeting will be held in Toronto, Canada, and will be a joint meeting with the Canadian Pharmaceutical Association.

THE National Association for Savings and Economy, of Istanbul, Turkey, will hold a farm congress on January 5, 1931, to determine the needs of the agriculturists.

A THREE-DAY conference of delegates from New South Wales agricultural societies and kindred organizations has been held at Sydney, Australia.

THE U. S. Civil Service Commission announces an open competitive examination to fill the position of senior geophysicist in the Bureau of Mines, Department of Commerce, for duty at Baltimore, Md. Applications must be on file with the U. S. Civil Service Commission at Washington, D. C., not later than October 22, 1930. Competitors will not be required to report for examination at any place, but will be rated on the subjects of education and experience, and on publications, reports or a thesis. Applicants must have been graduated with a degree from a college or university of recognized standing. Applicants must also have had certain additional experience or education. Full information may be obtained from the U. S. Civil Service Commission, Washington, D. C., or from the secretary of the U. S. Civil Service Board of Examiners at the post office or customhouse in any city.

THE Chemical Foundation of New York has given \$100,000 to the government to endow a fellowship in

the newly established National Institute of Public Health for research in the chemical industry. W. W. Buffum, general manager and treasurer of the foundation, presented the contribution to Andrew W. Mellon, Secretary of the Treasury. Francis P. Garvan, former alien property custodian, is president of the foundation.

THE Bouisson-Bertrand Institute, at Montpellier, France, has been authorized by the government to accept an annual subsidy of \$10,000 from the Rockefeller Foundation. The money will be spent upon research into the cause and if possible promote the cure of Mediterranean fever, also known as Maltese fever.

AT the recent commencement exercises of the department of anatomy, portraits of seven of its former and present faculty members were presented to Western Reserve University School of Medicine: Drs. George W. Crile, Roger G. Perkins, Isaac Newton Himes, Charles F. Hoover, Frank Emory Bunts, Carl A. Hamann and George Neil Stewart.

THE list of British civil list pensions for the year ending March 31 last includes £90 to Mrs. Maude Mary Buckman, in recognition of the services rendered by her husband, the late Mr. Sydney Savory Buckman, in the sphere of geology, and £70 to Miss Katherine Mary Lovell Gamgee, in recognition of the services rendered by her father, the late Professor Gamgee, to medicine and physiology, and of her work in connection with public health.

DR. OWEN H. WANGENSTEEN, of the University of Minnesota Medical School, has received a \$600 grant from the committee on scientific research of the American Medical Association for the continuance of his studies on intestinal obstruction.

THE Oxford University Press has arranged to continue *The Quarterly Journal of Mathematics* and *The Messenger of Mathematics* as a single journal, to be called *The Quarterly Journal of Mathematics* (Oxford Series). The editors will be T. W. Chaundy, E. G. C. Poole and W. L. Ferrar.

AN intensive and exhaustive study of Pennsylvania anthracite coal will be begun at once in three important universities, according to announcement made to-day by Noah H. Swayne, executive director of the Anthracite Institute. By arrangement with Lehigh University, Professor Homer G. Turner, assistant professor of mineralogy, has been appointed director of anthracite research and will devote much of his time during the next few years to that work.

SEVERAL hundred specimens of plants of the coffee family, sent to the Field Museum of Natural History

for study by the Botanical Garden of Leningrad, have been determined by Associate Curator Paul C. Standley, of the botanical staff of the Field Museum. Included were many specimens collected more than one hundred years ago and some obtained by the French botanist Aublet, who published in 1775 the first im-

portant work relating to the plants of South America. The Botanical Garden of Leningrad also sent to the museum in exchange more than one hundred plants of the same family, collected in Brazil by the well-known botanist Riedel and of great historical importance.

DISCUSSION

EUPHANY

IN the current number of the *British Journal of Psychology*, Professor T. A. Pear proposes to introduce the term "euphasia" to designate "the ability for deliberate and adequate statement of fact." One recognizes at once the great need for a technical term for this concept, but the term "euphasia" is unavoidably associated with terms of the same root in mental pathology, such as aphasia and disphasia. To avoid this, I wish to substitute the word "euphany" with its legitimate adjective "euphanious," the term being derived from the Greek word *phaino* which means "to say," "to reveal" or "to make clear," strengthened by the prefix "eu."

The term "euphany" may, therefore, be defined in terms of two concepts, namely, deliberation and adequacy of statement. Psychologically, deliberation involves a clarifying of percepts and concepts involved; abstraction in the form of clearing the ground by reviewing upon critical evidence all the plausible alternatives; generalization in which the issue is made sharp and clear by rejection of irrelevant issues; the recognition of meaning in the establishment of the relevancy of the clarified concept, and finally, decision which results in the expressed judgment or act. The term "adequate" merely reenforces this procedure by applying it to the one issue in hand.

The need for this word is felt, particularly in the statement of the goal of higher education and in the evaluation of progress toward this goal, as euphany is the principal objective of training in scholarship and the power of expression. The end of all science is classification, and euphany is the capacity for adhering rigidly and deliberately to classified concepts. In it the educator should set a model. To say that speech or writing is euphanious is to pay it a high and specific compliment.

C. E. SEASHORE

UNIVERSITY OF IOWA

NOMENCLATURE

MUCH of our discussion about nomenclature is apt to be beside the point, as very few workers have a conception of the enormous task confronting the systematists. The number of insect species living in the world at the present time has been variously estimated at from 1,000,000 to 10,000,000, and one

person's guess is as good as another's. An even better estimate may be secured by taking a census of a smaller group. I have been interested during the last twenty years in making an index to the literature dealing with the insects of the order *Homoptera*, families—Cicadidae, Membracidae, Cercopidae, Cicadellidae (Jassidae) and Fulgoridae. This index now occupies one hundred thirty-two 3 x 5 drawers in my office. A couple of stenographers, an assistant and I are too busy in our spare moments indexing the new literature as it is published to count the number of cards in this index, but making a rough and ready estimate, there are about 150,000 references to about 30,000 species distributed in 5,000 genera. This is a small order of insects, and it is doubtful if considering the world as a whole we know more than one third of the species. The European fauna has been fairly well studied, so has that of North America, north of Mexico; but Mexico, Central America, the West Indies, South America, Africa, Asia, the East Indies and Australia have barely been touched. I am bold enough to predict (because I will be dead and this note will be forgotten long before the task is completed) that the discovery of the remaining species will change our concepts of things nomenclatorial more than they have been changed during the past 172 years. Yet, Linnaeus described in this group of insects in his famous Tenth Edition 1 genus and 42 species! In spite of these facts we hear on every side a plea for the return to the Linnean concept of genera and stability in nomenclature. What kind of a genus would it be with 100,000 or even 30,000 species in it? And how can there be any stability when only about one third of our territory is known? Why expect stability in anything? Even the material universe around us is not stable. Thirty years ago as a student I was told that the atom was the ultimate particle of matter beyond which there was nothing; yet to-day we float in a sea of electrons and protons. And only day before yesterday I listened to a physicist lecture on the wave theory of matter. No! There will be growth in our ideas of taxonomy and systematics as long as there are taxonomists and systematists.

In the Homoptera, Linnaeus knew nothing about wing venation, genitalia and other morphological