

knowledge in the sciences and in scientific methods through new means and to encourage the participation of amateurs.

To guide this experiment the American Philosophical Society has appointed a committee on organization, including Edwin G. Conklin, executive vice-president of the society and professor emeritus of biology at Princeton University, as chairman; Anton J. Carlson, physiologist, the University of Chicago; Karl K. Darrow, the Bell Telephone Laboratories; Luther P. Eisenhart, professor of mathematics, Princeton University; C. E. Kenneth Mees, director of research, the Eastman Kodak Company; Harlow Shapley, director of the Harvard Observatory; W. F. G. Swann, director of the Bartol Research Foundation of the Franklin Institute; Harold C. Urey, professor of chemistry, Columbia University, and Roland S. Morris, president of the American Philosophical Society.

The survey will be conducted by an executive staff of scientific consultants. It will study educational programs already in progress in many institutions and will also determine the contribution made by some one hundred and eighty amateur organizations in the Philadelphia area, including astronomers, telescope makers, natural history and hiking clubs, photographic

groups and others. Special emphasis will be placed on the participation of persons in discussion forums, laboratory courses, museum tours and field trips.

A unique feature of the plan is the cooperation to be secured from local institutions and organizations, including the Philadelphia Board of Public Education, more than sixteen colleges and universities, the Franklin Institute, the Academy of Natural Sciences, the Wagner Free Institute of Science, the Museum of the University of Pennsylvania, the Delaware Valley Ornithologists Club, the Rittenhouse Astronomical Society and many others.

The Executive Staff of the Committee on Education and Participation in Science has as its chairman Roland S. Morris and as its executive secretary in charge of the survey W. Stephen Thomas, recently director of education of the Academy of Natural Sciences. The members of the staff who will act as consultants in their various fields are: Roger Conant, zoology, curator of the Philadelphia Zoological Gardens; Dr. John M. Fogg, Jr., botany, University of Pennsylvania; Dr. Serge A. Korff, physics and astronomy, Bartol Research Foundation, and Dr. Edward E. Wildman, science education, of the Philadelphia Board of Public Education.

SCIENTIFIC NOTES AND NEWS

THE American Association for the Advancement of Science will hold its hundred and fourth meeting at Milwaukee from June 19 to June 24, under the presidency of Professor Walter B. Cannon, of Harvard University. With it will meet a number of affiliated societies. The full preliminary program of the meeting, compiled by the permanent secretary, was published in the issue of *SCIENCE* for May 26.

THE list of birthday honors of the King of England includes a knighthood conferred on Dr. Owen Richardson, professor of physics at the University of London, from 1906 to 1914 professor of physics at Princeton University.

THE Belgian Society of Tropical Medicine, which has charge of health work in the Belgian Congo, has elected Dr. Alfred C. Reed, director of the Institute of Tropical Medicine of the University of California, a corresponding member.

DR. SELMAN A. WAKSMAN, microbiologist of the New Jersey Agricultural Experiment Station, has been elected a foreign member of the Royal Swedish Academy of Agriculture.

At the annual alumni reunion dinner of the Massachusetts Institute of Technology, Dr. Dugald C. Jackson, professor emeritus, formerly head of the department of engineering, was made an honorary member of the Alumni Association.

At the commencement exercises of the University of Missouri the degree of doctor of laws was conferred on Dr. Earl Raymond Hedrick, provost of the University of California at Los Angeles and vice-president of the university.

STEVENS INSTITUTE OF TECHNOLOGY, at its sixty-seventh commencement on June 10, conferred the honorary degree of doctor of engineering on William S. Knudsen, of Detroit, president of the General Motors Corporation; on Ole Singstad, chief engineer of the New York City Tunnel Authority; on William LeRoy Emmet, of Schenectady, N. Y., who has been associated with the General Electric Company since 1887, and on Alexander Graham Christie, professor of mechanical engineering at the Johns Hopkins University and president of the American Society of Mechanical Engineers. Mr. Knudsen delivered the address to the graduating class.

At the forty-fifth annual commencement of the North Dakota Agricultural College, the honorary degree of doctor of agriculture was conferred on Professor C. B. Waldron, professor of landscape gardening and forestry, formerly professor of horticulture and dean of the School of Agriculture of the college, and upon Professor H. L. Bolley, botanist and plant pathologist of the College Experiment Station.

PROFESSOR H. B. WALKER, head of the division of

agricultural engineering at Davis of the University of California, will be presented at the thirty-third annual meeting to be held in St. Paul, Minnesota, from June 19 to 22 with the John Deere Medal of the American Society of Agricultural Engineers in recognition of his achievements in "the application of science and art to the soil."

THE seventieth birthday of Dr. H. H. Dixon, professor of botany at Trinity College, Dublin, was celebrated by the presentation of a congratulatory address. Nearly three hundred names were appended, including those of his colleagues, of representatives of the colleges of Eire and Northern Ireland, of the universities of Great Britain and of many European and American universities. The presentation was made by the provost, who spoke of Professor Dixon's occupancy of the chair of botany, to which he succeeded thirty-five years ago, on the retirement of the late Professor Wright.

DR. W. D. CAIRNS, professor of mathematics at Oberlin College for the past forty years, retires this month. His address as secretary-treasurer of the Mathematical Association of America remains as previously, Oberlin, Ohio.

At the University of Colorado, following the retirement of Professor Francis Ramaley, Dr. Gordon Alexander has been promoted to a professorship and will become head of the department of biology, and Dr. Edna Louise Johnson has been promoted to a professorship in biology. Dr. Ramaley will continue at the university as editor of publications.

DR. PAUL BARTSCH, curator of the Division of Mollusks, Cenozoic Invertebrates, Helminths and Corals of the U. S. National Museum and since 1899 professor of zoology at the George Washington University, will retire this month from his chair at the university with the title emeritus.

DR. JOHN RATHBONE OLIVER, having reached the age of sixty-seven years, is retiring as associate in the history of medicine at the Johns Hopkins University.

DR. ALFRED NEWTON RICHARDS, professor of pharmacology at the University of Pennsylvania, was elected on June 5 vice-president of the university in charge of medical affairs to fill the vacancy occasioned by the death of Dr. Alfred Stengel on April 10. He will take office on July 1. Dr. Richards will retain his professorship of pharmacology both in the School of Medicine and in the Graduate School of Medicine.

DR. DIRK BROUWER has been promoted to an associate professorship of astronomy at Yale University.

At the University of London, Professor W. E. Le Gros Clark, since 1934 professor of anatomy in the University of Oxford, has been appointed as from October 1 to the chair of anatomy tenable at Univer-

sity College. Dr. Samuel Nevin has been appointed to the chair of pathology of mental disease tenable at the Maudsley Hospital. He will take up his work in September.

THE Board of Managers of the Wistar Institute of Anatomy and Biology have announced the following elections and new appointments: *President*, Dr. Esmond R. Long, director of the Henry Phipps Institute and professor of pathology at the University of Pennsylvania; *Members of the Board of Managers*, Dr. Alfred Newton Richards, professor of pharmacology at the University of Pennsylvania and vice-president in charge of medical affairs, and William H. DuBarry, vice-president and assistant to the president; *Executive Director*, Dr. Edmond J. Farris, associate in anatomy in charge of operations, the Wistar Institute.

JOSEPH R. SLEVIN, curator of herpetology in the California Academy of Sciences, arrived on May 9 in Chiriqui Province, Panama, where he plans to spend several months collecting reptiles and amphibians. This is a continuation of work previously undertaken in the Central American region.

DR. ERNST A. BESSEY, professor of botany and dean of the Graduate School at the Michigan State College, East Lansing, has leave of absence for the next college year to become visiting professor of botany at the University of Hawaii during the occupancy of the Bishop professorship at Yale University by Professor Harold St. John. Dr. Bessey will leave in August, returning in about a year.

DR. MAX BERGMANN, member of the Rockefeller Institute for Medical Research, delivered the Edward Gamaliel Janeway lecture at Mount Sinai Hospital, New York City, on May 16. His subject was "Some Biological Aspects of Protein Chemistry."

At the annual Harlow Brooks medical program of the Washington Square Medical Society on April 20 Dr. Louis F. Bishop opened the session with an address entitled "Reminiscences of Dr. Harlow Brooks" and Dr. Lewellys F. Barker, Baltimore, delivered the memorial lecture on "The Diagnosis and Treatment of Vitamin Deficiencies."

DEAN FRANK C. WHITMORE, of the Pennsylvania State College, on May 19 gave the sixty-sixth Barnwell address at the Central High School of Philadelphia. Others who have spoken in this series since 1922 are Edwin E. Slosson, Michael I. Pupin, Henry Fairfield Osborn, William Beebe, Wm. F. G. Swann, Clyde Fisher, Karl Taylor Compton, Aleš Hrdlička, Isaiah Bowman and Edwin G. Conklin.

DR. ALEŠ HRDLIČKA, of the U. S. National Museum, lectured at University College, London, on May 31 and June 1. The subjects of the lectures were "The Pres-

ent Status of Our Views on Human Evolution" and "The Racial Fallacies and Realities of European Peoples."

DR. GEORGE W. LEWIS, director of aeronautical research of the National Advisory Committee for Aeronautics of the United States, delivered in the lecture hall of the British Institute of Mechanical Engineers on May 24 the twenty-seventh Wilbur Wright memorial lecture entitled "Some Modern Methods of Research in the Problems of Flight."

THE fifth International Congress for the Unity of Science will be held at Harvard University from September 3 to 9. Rooms will be available at \$1.25 per day per person. Arrangements can be made through Dr. W. Van O. Quine, Harvard University, Cambridge, Mass. Contributions to the congress are as follows: Donors, \$25.00 upwards; active members, \$5.00; students and relatives of members, \$1.50. All who would like to receive later notices of the congress should send their names to Professor Charles W. Morris, University of Chicago.

At the annual meeting of the Midwestern Psychological Association held recently at the University of Nebraska, the following new officers for the year 1939-40 were announced: *President*, J. P. Guilford, University of Nebraska; *Secretary-Treasurer*, Robert H. Seashore, Northwestern University, and *Member of the Council*, N. R. F. Maier, University of Michigan. The fifteenth annual meeting will be held on May 3 and 4, 1940, at the University of Chicago.

THE House of Representatives on May 24 completed Congressional action on a bill to authorize the construction of two new vessels for the Coast and Geodetic Survey at a cost of \$1,425,000. The bill carries no appropriation.

THROUGH the courtesy of Mrs. Margaret W. Biddle the California Institute of Technology has been given the chemical library of Professor Henry Chalmers Biddle, formerly dean of the College of Pharmacy of the University of California. The library consists mainly of books and journals dealing with organic chemistry.

THE Rockefeller Foundation has appropriated for the Johns Hopkins Medical School a ten-year grant of \$350,000 to establish a department of preventive medicine.

DR. ROBERT S. CARROLL, founder, owner and medical director of Highland Hospital for nervous and mental disorders at Asheville, N. C., has presented the hospital to Duke University, Durham, to be developed as the therapeutic unit of a new department of psychiatry. If at any time in the future the university

decides that operation of the hospital in Asheville is not practicable, the property and equipment may be disposed of, but the proceeds therefrom must be used for the department. Dr. Carroll will remain the medical director of the hospital for five years, during which time a gradual interchange of personnel between the institutions will be effected.

ACCORDING to an announcement printed in the *Journal* of the American Medical Association, research on cancer at the University of Wisconsin will be centralized in a new building now in process of construction. Funds amounting to about \$240,000 have been provided for the building by a special bequest, by a contribution from the Wisconsin Alumni Research Foundation and by a PWA grant of \$108,000. It will be 102 feet long and 50 feet wide and will be connected with the Memorial Service Institutes of the university and the Wisconsin General Hospital. Two floors will be devoted to biologic research, one to x-ray diagnosis and the first floor to radiologic research and treatment. The new building can not offer space to all the work on cancer of the departments of zoology, plant pathology, agricultural chemistry, physics, chemistry and various departments of the medical school, but it will have conference rooms and will serve as a clearing house to unify the varied activities. In the Wisconsin General Hospital cancer patients from all parts of the state are received, making all types of the disease accessible to research workers. The entire development is being directed by a committee of the Graduate School consisting of Dr. William S. Middleton, dean of the Medical School, *chairman*; Dr. Edwin B. Fred, dean of the Graduate School, and Dr. Michael F. Guyer, professor of zoology. Dr. Walter J. Meek, professor of physiology and associate dean of the Medical School, is chairman of the building committee.

THE preparation of a new "Nomenclator Zoologicus" is now approaching completion. It is estimated that the work will comprise some 225,000 entries, of which about 5,000 appear to have been omitted from all previous publications of this character. It is proposed to publish the work in 4 volumes of nearly 1,000 pages each, which it is hoped it will be possible to issue at intervals of about six months. The Zoological Society of London has borne the cost of preparation (approximately £1,800), but the council of the society does not feel justified in incurring further expenditure, which would involve an additional £3,600. However, with the aid of various grants from outside sources, the editor, Dr. Sheffield Neave, has himself now been able to arrange for the printing and publication of the work.