

the University of Pennsylvania, but to focus attention upon the contributions which higher education everywhere has made, and can continue to make, to the betterment of mankind. These addresses will be delivered at general sessions, which will precede symposia and group conferences in the humanities, natural sciences, social sciences, medical sciences and religion. Each speaker has been selected because of the outstanding position he occupies in his particular field.

Those coming from England to address the general sessions include Sir Thomas Lewis and Sir Henry Dale in medicine; Sir William H. Beveridge, economist, master of University College, Oxford; Dr. Alan J. B. Wace, professor of classical archeology at the University of Cambridge; from France, Professor Etienne Gilson, historian; Dr. Charles Cestre, professor of American literature and civilization, University of Paris, and Dr. Jacques Maritain, professor of philosophy at the Catholic Institute, Paris; from Den-

mark, Dr. Thorvald Madsen, of the State Serum Institute at Copenhagen; from Germany Dr. Werner C. Heisenberg, professor of physics at the University of Leipzig; from Switzerland, Dr. William E. Rappard, political science.

Addresses at the general sessions will be given by Hu Shih, Chinese ambassador to the United States; Dr. Frank B. Jewett, president of the Bell Telephone Laboratories; Dr. Evarts A. Graham, surgeon and member of the faculty at Washington University, St. Louis; Dr. Hans Zinsser, professor of bacteriology and immunology at the Harvard Medical School; Dr. Lawrence J. Henderson, biological chemist, Harvard University, and Dr. Herbert Spencer Jennings, emeritus professor of zoology at the Johns Hopkins University.

At the forty symposia and conferences which will follow the general sessions the program will provide, as a rule, for a keynote address, as well as one or two shorter addresses and an open discussion.

SCIENTIFIC NOTES AND NEWS

DR. ERNEST O. LAWRENCE, professor of physics and director of the Radiation Laboratory of the University of California at Berkeley, will give an illustrated lecture entitled "Bombarding Atoms" on the evening of Monday, April 22, before the annual meeting in Washington of the National Academy of Sciences.

PROFESSOR C. E. MCCLUNG, director of the Laboratory of Zoology of the University of Pennsylvania, reached the age of seventy years on April 5. A surprise party was held for him at the home of his daughter, Ruth McClung Jones. A correspondent writes: "After a dinner attended by Dr. and Mrs. McClung and a few intimate friends, members of the staff of the department of zoology and their wives arrived in time to share in the ice cream, coffee and birthday cake. The guests brought a varied assortment of 'presents.' These included grasshoppers made out of various materials (one realistic one was constructed of parsnips), models of chromosomes, picture books, toy microscopes and other toys such as globes, ships and a mechanical snake. Each 'present' was accompanied by a rhyme or jingle, all of which provided much hilarity for this jolly occasion. In addition Dr. McClung received many telegrams and letters of felicitation."

THE prize (\$1,000) in pure chemistry of the American Chemical Society, provided this year by Alpha Chi Sigma, has been awarded to Dr. Lawrence Olin Brockway, assistant professor of chemistry at the University of Michigan, for his work on the determination of molecular structure by electron diffraction methods. The Francis P. Garvan Gold Medal to honor an Amer-

ican woman for distinguished service in chemistry has been awarded to Dr. Mary E. Pennington, of New York City, an authority on the refrigeration of perishable foods. Presentation of the awards will be made at the meeting of the society to be held in Detroit from September 9 to 13.

OLE SINGSTAD, chief engineer of the New York City Tunnel Authority and a member of the R  yal Norwegian Academy of Sciences, received the rank of Knight First Class of the Order of St. Olav at the command of King Haakon VII of Norway at ceremonies held on April 8 in the offices of the Tunnel Authority. The presentation was made by Wilhelm Munthe Morgenstierne, Norwegian Minister to the United States, and Rolph A. Christensen, Norwegian Consul General of New York City. The decoration was given in recognition of "distinguished accomplishments in the engineering field and contributions to Norwegian interests in New York." Mr. Singstad was engineer of design for the Holland Tunnel and devised the transverse system of tunnel ventilation that has been adopted by tunnel authorities throughout the world.

DR. WILLIAM C. ANDERSON, dean emeritus of the Brooklyn College of Pharmacy, was the guest of honor on April 10 at a dinner given in celebration of the seventy-fifth birthday, closing the annual convention of the New York Pharmaceutical Council.

THE Cameron Prize of the University of Edinburgh has been awarded to Professor E. C. Dodds, Courtauld professor of biochemistry in the University of London, for his work on synthetic oestrogens.

ACCORDING to a Reuter's dispatch to the London *Times*, Sir Harold Carpenter, professor of metallurgy in the Royal School of Mines, London, has been chosen by the Metallurgical Society of Japan as winner of the Honda Prize. He is the first foreigner to receive the award—a gold cup and £300.

THE Goethe Medal of Science and Art of the German Empire has been awarded to Dr. Ludwig Prandtl, professor of applied mechanics at the University of Göttingen.

The British Medical Journal states that at the annual meeting of the Royal Asiatic Society of Bengal on February 5 the award of the Barclay Memorial Medal for 1939 was made to Major-General Sir Robert McCarrison, "for conspicuously meritorious contributions to medical science, with special reference to India." The *Journal* also reports that at a recent meeting of the Academy of Sciences of Ferrara a medal known as the *Nummus aureus* was conferred on the following leaders of Italian medicine: the surgeon and Senator Raffaele Bastianelli; Dr. Francesco Delitala, professor of clinical orthopedics; Senator Davide Giordano, of Venice, author of several surgical works; General Loreto Mazzetti, director of military hygiene; Senator Alberto Pepere, professor of morbid anatomy, and Vittorio Putti, professor of clinical orthopedics at Bologna.

DR. EDWARD LEE THORNDIKE, professor of educational psychology and director of the Division of Psychology of the Institute of Educational Research at Teachers College, Columbia University, will retire from active service on July 1.

DR. KARL E. MASON, associate professor of anatomy at Vanderbilt University, has been appointed head of the department of anatomy of the School of Medicine and Dentistry of the University of Rochester. He succeeds Dr. George W. Corner, who, after serving since 1924, resigned last autumn to become director of the department of embryology of the Carnegie Institution. Dr. Robert K. Burns, Jr., associate professor of anatomy at Rochester since 1928, will go with Dr. Corner to Baltimore.

IVAN CHARLES CRAWFORD, professor of civil engineering and dean of the School of Engineering and Architecture of the University of Kansas, has been appointed dean of the College of Engineering of the University of Michigan; Dr. Charles Fremont McKhann, assistant professor of pediatrics and communicable diseases at the Harvard Medical School, has been appointed associate professor of pediatrics and communicable diseases.

PROFESSOR WILLIAM ALLAN has been elected chairman of the department of civil engineering in the School of Technology of the College of the City of

New York. He succeeds Professor Frederick Skene, who retired last month after serving eighteen years as head of the department.

THE council of the University of Manchester has appointed Dr. C. W. Wardlaw, officer-in-charge of the Low Temperature Research Station, Trinidad, to the Barker chair of cryptogamic botany in succession to Professor W. H. Lang, whose appointment terminates at the end of the present session.

THE Porter Fellowship of the American Physiological Society has been awarded for 1940-41 to Dr. Gordon K. Moe, of the department of physiology of the University of Minnesota, for studies with Professor C. J. Wiggers, of Western Reserve University.

PRESIDENT ROOSEVELT has appointed Charles E. Jackson, acting commissioner of the Bureau of Fisheries, as one of the representatives of the United States on the International Fisheries Commission established between the United States and Canada, to fill the position left vacant by the resignation of Frank T. Bell, formerly Commissioner, Bureau of Fisheries. The other representative of the United States is Edward W. Allen, of Seattle, Wash., who became secretary of the commission on December 14.

THE Smithsonian-Firestone expedition to West Africa, headed by Dr. William M. Mann, director of the National Zoological Park of the Smithsonian Institution, has arrived in Liberia and is making preparations for getting as large and representative a collection as possible of the mammals, birds and reptiles of that country. The expedition, which is a joint undertaking of the Smithsonian Institution and the Firestone Tire and Rubber Company, which maintains extensive plantations in Liberia, will obtain animals for the park in Washington.

J. C. MILLER, geologist in the Conservation Branch of the U. S. Geological Survey, left Washington on April 3 to undertake geologic investigations in and adjacent to the Konawa, Traugh and Tyrola oil fields in Seminole County, Oklahoma. D. F. Hewett recently returned to Washington from field conferences with Geological Survey parties engaged in the study of tin deposits in North and South Carolina, mica deposits near Spruce Pine, North Carolina, and manganese deposits in Campbell County, Virginia. These districts are among the numerous areas in the United States that are being studied by the survey in the program of review of domestic sources of strategic minerals and metals.

DR. LEO LOEB, professor of comparative pathology, emeritus, at Washington University, St. Louis, will give an address on April 22 at the National Cancer Institute of the U. S. Public Health Service on "The Significance of Hormones in the Origin of Cancer."

DR. A. C. IVY gave on the evening of April 19 the seventh annual Arno B. Luckhardt Lecture of the Delta Chapter of Phi Beta Pi of the University of Chicago Medical Schools. He spoke on "The Gastro-Intestinal Hormones."

PROFESSOR MARSTON T. BOGERT, of Columbia University, on March 16 spoke before the Rensselaer Polytechnic Institute Chapter of Sigma Xi. His subject was "The Chemist in a Chaotic World."

DR. WILLIAM G. MACCALLUM, Baxley professor of pathology at the School of Medicine of the Johns Hopkins University, delivered the annual Kober Lecture at the Georgetown University Medical School, Washington, on March 28. He spoke on the "Pathology of the Parathyroid Glands." The lecture commemorates the late Dr. George M. Kober, of Washington, and is given on his birthday. Dr. MacCallum was presented with the certificate and honorarium of \$500 provided by the Kober Foundation.

BECAUSE of the uncertainties of transportation due to international affairs, the eighth series of Salmon Memorial Lectures, which were to have been given by the Russian psychiatrist, Dr. Alexander Luria, have been postponed. Dr. Nolan D. C. Lewis, director of the New York State Psychiatric Institute, who has been appointed in the place of Dr. Luria, will advance the date of his series of lectures to November, 1940. He will deliver a series of three lectures at The New York Academy of Medicine on November 8, 15 and 22. Salmon lecturers are selected each year on the basis of their scientific achievement, with particular reference to constructive contributions in the fields of psychiatry and neurology.

PROFESSOR DOUGLAS JOHNSON, of Columbia University, serving as one of the lecturers in the annual series on "Science in Progress," sponsored by the National Society of the Sigma Xi and discussing investigations of "The Mysterious Craters of the Carolina Coast" as illustrations of methods in scientific research, addressed Sigma Xi chapters and clubs during the period March 13-April 3 at the following institutions: Swarthmore College, the University of

Maine, Denison University, the University of Illinois, Indiana University, the Rice Institute, the State University of Louisiana, the University of Kansas, the University of Nebraska and Northwestern University. He also lectured on the Carolina Craters at Clark University and on "Geology and Strategy in the Present War" at Indiana University, the Rice Institute, the University of Nebraska, Northwestern University and also at the University of Kansas, where he gave a second lecture entitled "Is the Atlantic Coast Sinking?"

THE fourth International Congress of Malaria will be held in Rome on the occasion of the International Exhibition of 1942.

THE annual meeting of the American Pharmaceutical Association will be held in Richmond from May 5 to 11. The association will meet in sections, including: a Scientific Section; a Section on Practical Pharmacy and Dispensing; a Section on Historical Pharmacy; a Section on Education and Legislation, and a Section on Economics. The American Association of Colleges of Pharmacy, the National Association of Boards of Pharmacy and the Plant Science Seminar will also meet in Richmond during the week.

MEMBERS and guests of the Sigma Xi Club of Hawaii met at the University of Hawaii on the evening of March 25 to hear a symposium on "Progress in Plant Breeding in Hawaii," a discussion of the advances in Hawaiian agriculture made possible by the application of the principles of genetics. The speakers were Dr. J. L. Collins, geneticist, Experiment Station of the Pineapple Producers Cooperative Association; Dr. A. J. Mangelsdorf, geneticist, Experiment Station of the Hawaiian Sugar Planters' Association, and Dr. J. H. Beaumont, director and horticulturist, Hawaii Agricultural Experiment Station.

DR. EDWARD WIGGLESWORTH, scientific director of the New England Museum of Natural History, has arranged an exhibit of synthetic and genuine gems, and described on April 10 before the American Academy of Arts and Sciences the methods in use for identifying synthetic cut gems, demonstrating the method with the aid of "Diamondscopes."

DISCUSSION

A CHYTRID IN RELATION TO CHLOROTIC STREAK DISEASE OF SUGAR-CANE

CHLOROTIC streak, a systemic disease of sugar-cane occurring in Java, Hawaii, Queensland, Puerto Rico and Louisiana, is characterized by the variable development of one or more yellowish streaks on the leaves. The streaks follow the veins, are more or less diffuse in outline, often discontinuous, and may not extend to either midrib or edge of leaf. The lesions often

become necrotic. A red discoloration of the vascular bundles in the nodes is also a variable symptom. Vague, evanescent symptoms and latency are typical. The effects of the disease are poor germination of cuttings, depressed growth and the development of stalks of less than normal size. The disease in severe form is sharply restricted to wet localities. Uniformly negative results have attended investigations to find a causal agent of this obscure disease.