

ural History Museum of the University of Minnesota conducted by William Kilgore, curator.

April 21, 1945, has been selected as the date for the next annual meeting of the academy.

JOHN W. MOORE,
Secretary

THE AMERICAN ACADEMY OF ARTS AND SCIENCES

At a meeting of the American Academy of Arts and Sciences, held at Boston on the evening of November 8, a symposium was presented on "Blood and Blood Derivatives in War and Peace" at which the following papers were read:

"Blood Is a Very Special Juice" (—Goethe, *Faust*), Dr. Edwin J. Cohn.

"The Use of Blood and Blood Derivatives in Medicine," Dr. Charles A. Janeway.

"The Use of Blood Derivatives in Surgery," Dr. Francis D. Ingraham.

This report by members of the faculty of the Harvard Medical School concerned chemical, clinical and immunological work carried on by a large group of investigators whose cooperative endeavors during the war have greatly advanced knowledge regarding blood and its uses. The research has been carried forward with the cooperation of the National Research Council, the American Red Cross, the Massachusetts Antitoxin and Vaccine Laboratory, and other agencies and institutions, under contract as recommended by the Committee on Medical Research, between the Office of Scientific Research and Development and Harvard University.

There was an exhibit of the blood and blood derivatives that are being distributed to the Armed Forces.

MEETINGS OF MATHEMATICIANS

THE fifty-first annual meeting of the American Mathematical Society will be held at the Museum of Science and Industry, Chicago, on November 24 and 25, in conjunction with meetings of the Mathematical Association of America.

Sessions of the society will begin on Friday at 2:00 P.M. and continue through Saturday afternoon. Sessions of the association will be held on Saturday evening and Sunday morning. All sessions will be held in the west lecture hall of the museum.

The eighteenth Josiah Willard Gibbs Lecture will be given on Friday at 7:45 P.M., by Professor John von Neumann, of the Institute for Advanced Study, Princeton, N. J. The title of this lecture is "The Ergodic Theorem and Statistical Mechanics."

On Saturday at 2:00 P.M., by invitation of the Program Committee, Professor Will Feller, of Brown University, will deliver an address on "Limit Theorems in the Theory of Probability."

The annual business meeting and election of officers will be held on Saturday at 9:30 A.M. Following this the winner of the Cole Prize in Algebra will be announced and the recipient will give a résumé of the prize-winning memoir.

The Board of Trustees will hold its regular annual meeting at 6:00 and the council will meet at 9:00 P.M. on Friday at the Hotel Windermere East.

There will be a dinner for the two organizations and their guests at 6:00 P.M. on Saturday at Hotel Windermere West.

THE PRESIDENCY OF THE AMERICAN CHEMICAL SOCIETY

ELEVEN representatives of science and industry have been placed in nomination for the presidency of the American Chemical Society. The candidates were proposed by the local sections of the society, of which there are a hundred and six in all parts of the country. The choice will be made by mail ballot of the 40,000 members of the society. The nominees are:

Dr. Leason H. Adams, director of the Geophysical Laboratory, Carnegie Institution of Washington; Colonel Bradley Dewey, president of Dewey and Almy Chemical Company, Cambridge, Mass., formerly Rubber Director; Dr. Gustav Egloff, director of research of Universal Oil Products Company; Dr. Clifford Cook Furnas, director of the Airplane Division Research Laboratory of Curtiss-Wright Corporation, Buffalo, N. Y.; Dr. Milton Harris, director of research at the Textile Foundation, National Bureau of Standards, Washington, D. C.; Dr. Joel Henry Hildebrand, dean of the College of Letters and Science at the University of California; Dr. W. Albert Noyes, professor of chemistry at the University of Rochester; Dr. Walter A. Schmidt, president of the Western Precipitation Corporation, Los Angeles; Dr. Eugene Paul Schoch, professor of chemical engineering at the University of Texas; Dr. Lee Irvin Smith, professor and chief of the Division of Organic Chemistry of the University of Minnesota; Dr. Charles Allen Thomas, central research director, Monsanto Chemical Company, Dayton, Ohio.

The nominee who receives the largest vote will become president-elect on January 1, 1945, and president on January 1, 1946. Professor Carl Shipp Marvel, of the University of Illinois, the present president-elect, will assume the presidency on January 1 next, succeeding the late Thomas Midgley, Jr.

SCIENTIFIC NOTES AND NEWS

AN Associated Press dispatch from Stockholm dated November 9 reports that the Nobel Prize in physics for 1943 has been awarded to Dr. Otto Stern, research

professor of physics at the Carnegie Institute of Technology, Pittsburgh, who has now leave of absence to enable him to engage in research for the Govern-

ment. The prize for 1944 has been awarded to Dr. Isidor Isaac Rabi, professor of physics at Columbia University. The prize in chemistry has been awarded to Dr. Georg Hevesy, of Copenhagen. The committee reserved the prize in chemistry for 1944 for possible award next year.

THE Gorgas Medal for distinguished service as an officer of the Medical Corps, United States Navy, in the field of preventive medicine for the armed forces, was presented *in absentia* to Commander James J. Sapero at the annual dinner in New York City on November 3 of the Association of Military Surgeons of the United States. The medal, which was established in 1942 and which is sponsored by Wyeth Inc., was awarded to Commander Sapero in recognition of his work in organizing the series of malaria control commissions which now operate in every area in the South Pacific infested by infected anopheles.

THE American Welding Society has awarded the Lincoln Gold Medal to Dr. Wendell F. Hess, head of the welding laboratory of the Rensselaer Polytechnic Institute, and to D. C. Herrschaft, an assistant, for a paper "representing the greatest contribution to the advancement and use of welding for the year 1944."

THE Associate Alumni of the College of the City of New York has awarded the Townsend Harris Medal "for postgraduate achievement" to William Fondiller, assistant vice-president of the Bell Telephone Laboratories. The formal presentation will take place at the annual dinner of the alumni on November 18.

THE Honor Scroll Award of the American Institute of Chemists was presented at a testimonial dinner on October 6 to Robert Brinton Harper, vice-president of the Peoples Gas Light and Coke Company, Chicago, in recognition of "distinguished service to the gas and allied industries, as organizer, executive and scientist."

DR. HARRY M. HINES, professor of physiology at the College of Medicine of the State University of Iowa, has been made head of the department. He succeeds Dr. John T. McClintock, who has retired after serving for forty-two years.

DR. NORMAN J. VOLK, head of the department of agronomy and soils of the Alabama Polytechnic Institute and Station, has been appointed head of the department of agronomy of Purdue University, to succeed Dr. George D. Scarseh, who resigned recently to become director of the American Farm Research Association.

DR. STANLEY B. FREEBORN, senior surgeon in the U. S. Public Health Service, has resumed his work as professor of entomology and assistant dean of the College of Agriculture of the University of California. He was called to active duty after Pearl Harbor to

organize and administer the program of the U. S. Public Health Service for malaria control in war areas. Measures were taken to combat the spread of mosquito-borne epidemics in areas crowded with service personnel and war workers, as well as in tropical stations such as Puerto Rico and Jamaica.

DR. HERBERT E. LONGENECKER, professor of chemistry at the University of Pittsburgh and director of research projects of the Buhl Foundation at the university, has been appointed dean of research in the natural sciences. He will direct investigations in chemistry, physics, biology and allied fields.

PROFESSOR CLINTON N. LAIRD, since 1905 professor of chemistry at Lingnan University, in 1942 a repatriate on the *Gripsholm* from the Japanese Internment Camp at Hong Kong, and from January 1, 1943, to August, 1944, associated with the Foreign Economic Administration at Washington, has left the United States for Istanbul, Turkey, to become professor of chemistry at Robert College for three years. In 1947 he will retire from Lingnan University as emeritus professor of chemistry.

It is reported in *Nature* that the University of Ankara has appointed the following, nominated by the British Council, to professorships in the sciences: Dr. W. J. McCallien, Carnegie teaching fellow in geology at the University of Glasgow, to the chair of geology, and Professor J. A. Strang, professor of mathematics at the University of Lucknow, to the chair of mathematics. British scholars occupy ten chairs at the University of Istanbul, including Professor F. H. Constable, physical chemistry; Professor P. du Val, mathematics; Professor V. H. Legg, industrial chemistry; Professor W. C. W. Nixon, gynecology; Professor J. S. Rankin, theoretical mechanics; Professor F. Royds, astronomy.

DR. LEONARD CARMICHAEL, president of Tufts College, has resigned as director of the National Roster of Scientific and Specialized Personnel of the War Manpower Commission. He is succeeded by Dr. George A. Works, formerly professor of higher education and dean of students at the University of Chicago.

DR. ROBERT H. FELIX has been appointed director of the division of mental hygiene of the U. S. Public Health Service, Washington, D. C. He succeeds Dr. Lawrence Kolb, retired.

DR. A. M. PORTER, associate professor of vegetable gardening at the University of Connecticut, has leave of absence to become principal seed specialist with the U. S. Foreign Economic Administration. In this position he will be in charge of the distribution of seeds, fungicides and insecticides to Allied and liberated countries.

DR. MAX R. ZELLE, assistant professor and assistant in animal genetics at Purdue University, has leave of absence to enable him to accept a commission in the United States Navy.

DR. LLOYD A. HALL, chief chemist, the Griffith Laboratories, Chicago, Illinois, has been appointed a member of the Food Standards Commission of the Illinois State Department of Agriculture.

DR. H. H. STORCH, of the Central Experiment Station at Pittsburgh, has been appointed chief of the research and development division of the Office of Synthetic Liquid Fuels of the U. S. Bureau of Mines. A laboratory will be erected at Bruceton, Pa., which is expected to be ready for occupancy next autumn.

BRIGADIER BASIL SCHONLAND, professor of geophysics at the University of the Witwatersrand, Johannesburg, now of the South African Corps of Signals, who is serving on General Eisenhower's staff, has been appointed head of a new industrial research institution for the Union of South Africa.

DR. J. LEE DEEN, station forester and dean of forestry and range conservation at Colorado College, has leave of absence for about seven months to make a survey for the American Forestry Association of forest resources in Colorado, Wyoming, Utah, New Mexico and Arizona. He will be assisted by J. C. H. Robertson.

E. J. ALEXANDER, assistant curator at the New York Botanical Garden, and Thomas MacDougall, a nurseryman and landscape designer of New York City, plan to spend six months exploring little known parts of southern Mexico for botanical and horticultural material. This is the second tropical expedition of the New York Botanical Garden within the past year. Dr. Bassett Maguire, curator, returned at the end of October after a trip of eight months during which he explored the savannahs above Kaieteur Falls in British Guiana, also Table Mountain in the interior of Surinam. In addition, Dr. H. W. Rickett, bibliographer, spent the summer of 1943 in Mexico as a representative of the Inter-American Committee for Artistic and Cultural Relations.

THE A. Walter Suiter Lecture of the New York Academy of Medicine was delivered on November 2 by Dr. Stuart Mudd, professor of bacteriology at the University of Pennsylvania. His lecture was entitled "Airborne-Infection—The Rationale and Means of Disinfection of Air."

DR. R. RUGGLES GATES during the period from October 20 to November 14 gave at the Lowell Institute, Boston, a series of eight illustrated lectures on "Human Heredity."

PROFESSOR EDWARD KASNER on October 20 gave an

invited address at St. John's College, Annapolis, on "Geometry and Mechanics," and an address entitled "The Golden Section" at the opening meeting of Friends of Scripta Mathematica at Columbia University on October 26.

DR. S. H. KNIGHT, of the department of geology of the University of Wyoming, who has been a visitor at the department of geology of Columbia University, delivered a lecture entitled "Physical Evolution of the Rocky Mountains" before the New York Academy of Sciences on the evening of November 6. He planned also to lecture before the departments of geology at Vassar College, Smith College and Wellesley College, and before the Society of the Sigma Xi at Brown University.

THE two hundred and sixty-fifth meeting of the American Physical Society, which will take the place of the 1944 annual meeting, will be held at Columbia University in New York City on January 19 and 20, 1945. There will be a symposium on "The Physics of the Solid State," including papers which pertain to mechanical properties, magnetism and order-disorder phenomena, as well as to other aspects of the field. The American Association of Physics Teachers will meet at the same time and place.

THE Texas Academy of Science met on November 9, 10 and 11 under the auspices of the Medical Branch at Galveston of the University of Texas. A special feature of the meeting was a symposium on November 11 on the biology of the cancer cell, under the chairmanship of Dr. W. A. Selle, of Galveston. Participating were Professors R. E. Hungate, Alfred Taylor, T. S. Painter and R. J. Williams, of the University of Texas, Austin; and Dr. Fritz Schlenk, of Houston; Professor J. A. Cameron, of Dallas, Paul Brindley, of Galveston, and Dr. Selle. There was a symposium on health conditions in the coastal area of Texas, under the chairmanship of Dr. J. G. Sinclair, professor of anatomy.

THE next regular meeting of the Instrument Society of Washington will be held on November 21, at 8:00 P.M., in the Auditorium of the Interior Department, 18th and C Streets, N.W., Washington, D. C. C. G. Weinott, of the Engineering Department of the Westinghouse Electric and Manufacturing Company, will speak on "Fractional Horsepower Motors—Their Characteristics and Instrument Applications." Admission is open to the public.

It is reported in *The Times*, London, that an international agreement on a world-wide uniform standard and unit of penicillin has been reached by the Health Committee of the League of Nations at a meeting held at the headquarters of the Royal Society, Burlington House, with Sir Henry Dale,

president of the society, in the chair. Delegates who attended were from *Australia*, Major J. L. Bazeley, Commonwealth Serum Laboratories; from *Canada*, Dr. G. D. W. Cameron, chief of the Laboratory of Hygiene, Department of Pensions and National Health, Ottawa; from *France*, M. le Dr. J. Trefouel, director of the Pasteur Institute, Paris; from the *United Kingdom*, Dr. C. R. Harington, National Institute of Medical Research; and Dr. J. W. Trevan, Wellcome Physiological Research Laboratories; and from the *United States*, Dr. R. D. Coghill, Northern Regional Research Laboratory of the U. S. Department of Agriculture, Peoria, Ill.; Dr. R. P. Herwick, chief of the Drug Division of the Food and Drug Administration, and Dr. M. V. Veldee, chief of the Division of Biologics Control, U. S. Public Health Service. Other countries sending observers include India and South Africa.

At the annual general meeting on October 17 of the British Standards Institution, The Right Honorable Lord Woolton was elected president and Sir Percy Ashley was elected vice-president. Sir William Larke succeeded Sir Percy Ashley as chairman of the Gen-

eral Council. Dr. E. F. Armstrong, F.R.S., chairman of the finance committee, reported that income and expenditures for the year had increased by twenty-eight per cent. and was now about £69,000. The sales of copies of British Standards had gone up thirty-nine per cent. The Government grant-in-aid was nearly double and was now £12,900. While there was an increase of some fifteen per cent. in the number of subscribing members he pointed out the need for greater support from local authorities and industry.

At the request of the departments of the public health and mosquito abatement districts in California, the School of Public Health of the University of California will offer from December 5 through December 16, in cooperation with the College of Agriculture, an intensive, practical course on the control of mosquitoes and mosquito-transmitted diseases, covering instruction in administration and management, entomology and parasitology, mosquito-transmitted diseases and techniques of control.

THE post-war building plans of the Santa Barbara College of the University of California include the erection of a science building and of a library and administration building.

DISCUSSION

POST-WAR BIOLOGY REHABILITATION¹

In August, 1944, a group at the Marine Biological Laboratory at Woods Hole invited a representative of the Department of State to address the scientific community at Woods Hole. Mr. G. Howland Shaw, Assistant Secretary of State, sent, as his representative, Dr. Ralph E. Turner. As a result of stimulating sessions with him a memorandum was prepared expressing the interest of the biologists in participating with the State Department in efforts toward rehabilitation of the basic biological sciences during the post-war period.

Briefly stated, the memorandum recommends closer cooperation than hitherto among scientists throughout the world. The need for rehabilitation as a result of war devastation is presented as an opportunity for furthering such cooperation. Suggestions are offered (1) of increased support toward international scientific congresses taking into consideration the inestimable value of frequent personal contacts; (2) of the establishment of representatives of the basic sciences in governmental embassies to enhance close coordination of scientific investigations; (3) of prompt rehabilitation of scholars of the basic sciences with needed laboratory and library equipment; (4) of the establishment of short- and long-term exchange fellowships and professorships.

¹ Memorandum prepared at the Marine Biological Laboratory.

This memorandum was sent to the Department of State on August 31, 1944, and, as a record of its active interest, the following paragraphs are quoted from the letter of acknowledgment of Mr. Shaw:

The proposals embodied in the memorandum, which has been referred to the Division of Cultural Cooperation for study, seem to me to be excellent starting points for formulating a general program of scientific exchanges. The reestablishment of relations with the scientists of the Axis countries is, indeed, a delicate matter that must be given careful consideration by both scientists and governments. Inasmuch as the Department has begun only recently to study the place of science in the general cultural relations program, it welcomes the cooperation of your group in this work. In fact, the Department is convinced now that a proper place can be given to science in this program only if full cooperation can be organized between the scientists, especially through their professional organizations, in the various fields and the Department. I assure you, therefore, that the Department will welcome further opportunities to consider with your group the international interests of biologists.

The memorandum was presented to several sections of the American Association for the Advancement of Science at its meeting in Cleveland, September 11-16, 1944. It was approved in principle and has been transmitted to the executive committee of the association for final action.