

given by Galileo, the weight of the air as determined by Galileo, and the pressure and resistance of the air and "various other fluids," as discussed by Galileo in connection with projectiles, arriving at the idea that if water was held up to 32 feet, mercury would be held up under the same pressure to 30 inches, as mercury approximates 14 times the weight of water.

Dean G. S. Brett, of the department of philosophy of the University of Toronto, dealt particularly with the philosophical aspects of the "horror of the void" and the effect of the creation of a vacuum on contemporary thought.

The evening meeting was held in the McLennan Physical Laboratory, with Director John Patterson, of the Canadian Meteorological Service, presiding. A comprehensive collection of modern developments of the barometer and ancient devices was on exhibition. These were arranged by W. E. Knowles Middleton, of the Canadian Meteorological Office, with the co-operation of Professor John Satterly, of the department of physics. Mr. Middleton gave an account of these various contrivances which remain to this day so essential for attempts to forecast the weather. Dr. Satterly gave a survey of the difficulties of development of the barometer as a precision instrument.

One classical experiment given by Torricelli in 1644 involved having the bowl of mercury supporting the mercury column large enough to hold water on top of the mercury sufficient to fill completely the tube holding the mercury. On lifting the tube to the point in the bowl where the mercury and water meet, the mercury drops almost instantly, and the water completely fills the tube that held the mercury. This experiment was successfully performed at both sessions.

President Cody, of the University of Toronto, presided at a dinner where toasts were given to the King of England, to President Roosevelt and to the three American delegates, including Dr. Andrews, of the Cleveland Great Lakes Weather Bureau, and Mr. Brumbacher, of Washington, members of the American Meteorological Society.

AMERICAN-SOVIET CONFERENCE

A CONFERENCE, sponsored by the National Council of American-Soviet Friendship, for which the following program has been arranged, will be held in New York City at the Hotel New Yorker on November 7:

PANEL: SOVIET SCIENCE AND TECHNOLOGY, 11:00 A.M.-1:30 P.M.

Chairman: DR. HAROLD C. UREY, professor of chemistry, Columbia University.

Sir Hubert Wilkins, explorer, "Soviet Exploration and Geography."

Dr. Carl O. Dunbar, curator, Peabody Museum, Yale Uni-

versity, "Advances in Soviet Geology and Mineralogy."

Dr. Charles E. Kellogg, soil scientist of the U. S. Department of Agriculture, "Soviet Soil Technology and Agriculture."

Dr. L. C. Dunn, professor of zoology, Columbia University, "Soviet Research in the Biological Sciences."

Dr. Selman Waksman, professor of microbiology, Rutgers University, "Bacteriology in the Soviet Union."

Dr. V. K. Zworykin, research director, R.C.A. Laboratories, "Soviet Developments in Electronics."

General Discussion.

PANEL: PUBLIC HEALTH AND WARTIME MEDICINE IN THE U.S.S.R., 2:30-5 P.M.

(the American-Soviet Medical Society cooperating)

Chairman: DR. WALTER B. CANNON, professor of physiology, Harvard University.

Dr. Hugh Cabot, Boston surgeon, "Russian Medicine Organized for War."

Dr. C.-E. A. Winslow, professor of public health, Yale University, "Public Health in the Soviet Union."

Professor Vladimir Lebedenko, Soviet surgeon, "Russian Advances in Military Medicine."

Soviet Motion Picture, "Experiments in the Revival of Organisms."

Dr. W. M. Stanley, Rockefeller Institute for Medical Research, "Soviet Studies on Viruses."

Dr. Alice Hamilton, medical consultant to the Federal Department of Labor, "Industrial Medicine in the U.S.S.R."

Dr. Wilder Penfield, professor of neurology, McGill University, "The Recent Surgical Mission to the U.S.S.R."

General Discussion.

THE TENTH ANNIVERSARY OF THE PLANETARIUM AND MUSEUM OF THE FRANKLIN INSTITUTE

THE Franklin Institute, Philadelphia, will celebrate on November 9, at three o'clock, the tenth anniversary of the opening of the Planetarium and Museum. The first session will be held in the Fels Planetarium, Wagner Schlesinger, director of the planetarium, presiding. The speakers will be James Stokley, General Electric Research Laboratories, first director of the planetarium; Colonel Philip Fox, Signal Corps, U. S. A., first director of the Adler Planetarium, Chicago; Demonstration of the Planetarium Instrument, Colonel Fox.

After an intermission the proceedings will be resumed in Franklin Hall at 4:15 in the afternoon, Charles S. Redding, president of the Franklin Institute, presiding. The program for the afternoon follows:

"Then and Now," The Honorable George Wharton Pepper.

Presentation by the president: Certificates of Honorary Membership to Philip Fox, Samuel S. Fels, Mary Curtis Zimbalist.

Presentation of Walter S. Gifford, president of the American Telephone and Telegraph Company, for the Vermyle Medal, Richard T. Nalle.

Address: "Industrial Management and Freedom from Want," Walter S. Gifford.

Reception and tea by the Hostess Committee.

The medal was awarded to Dr. Gifford "in recognition of outstanding contributions in the field of industrial management."

SCIENTIFIC NOTES AND NEWS

At the sesquicentennial commencement of Williams College, the doctorate of science was conferred on Dr. Alfred N. Richards, professor of pharmacology and vice-president in charge of medical affairs of the University of Pennsylvania, and on Professor Jerome C. Hunsaker, head of the department of mechanical and aeronautical engineering at the Massachusetts Institute of Technology.

At the celebration on October 27 of the centennial of the School of Medicine of Western Reserve University, honorary degrees were conferred as follows: the doctorate of science on Professor George H. Whipple, dean of the School of Medicine and Dentistry, University of Rochester, and on Dr. Reginald Fitz, of the Harvard Medical School; the doctorate of humanities on Dr. Frederick C. Waite, professor emeritus of histology at the university, and on Dr. William T. Corlett, Cleveland dermatologist, and the doctorate of laws on Dr. Torald H. Sollmann, dean of the School of Medicine at the university.

DR. SHERWOOD MOORE, director of the Mallinckrodt Institute of Radiology of Washington University, St. Louis, has been appointed by Surgeon General Parran a member of the National Advisory Cancer Council.

NEVIN E. FUNK, vice-president in charge of engineering of the Philadelphia Electric Company, was recently elected president of the American Institute of Electrical Engineers.

DR. A. C. FURSTENBURG, dean of the Medical School of the University of Michigan, was named on October 27, at the closing session of the fifty-fourth annual convention, president-elect of the Association of American Medical Colleges.

H. P. TREVITHICK, of the bureau of chemistry of the New York Produce Exchange, has been elected president of the Association of Consulting Chemists and Chemical Engineers.

THE title of professor emeritus has been conferred by the College of the City of New York on Dr. Frederick G. Reynolds, formerly professor of mathematics and chairman of the department, and on Dr. Axel L. Melander, formerly professor and head of the department of biology.

DR. JOSEPH C. AUB, since 1928 associate professor of medicine in the Harvard Medical School, has been appointed professor of research medicine.

DR. ERNST GELLHORN, professor of physiology at the College of Medicine of the University of Illinois, has taken up his work as professor of physiology at the Medical School of the University of Minnesota. He has been placed in charge of a special unit in neurophysiology for the study of infantile paralysis, sponsored by the National Foundation for Infantile Paralysis.

DR. HENRY G. FISK, who has been in charge of ceramic and mineralogical research at the Armour Research Foundation of the Illinois Institute of Technology, has been appointed director of the newly established Research Institute of the University of Wyoming. He took up his new work on November 1. The Research Institute is the first institution of its kind in Wyoming. In conjunction with the university, its purpose is to aid by scientific research in the discovery, development and exploitation of the natural resources of the state.

DR. I. A. MERCHANT, associate professor of veterinary hygiene at Iowa State College, has been appointed head of the department. Dr. Fay Farnum, of New York University, has been appointed assistant professor of mathematics.

DR. TEVFIK SAGLAM, professor of internal diseases in the faculty of medicine, has been appointed rector of the University of Istanbul.

It is reported in the *Journal* of the American Medical Association that as a result of the Ramirez government's order that all office holders who signed a recent pro-democratic manifesto be dismissed, professors of the highest standing in the universities of Argentina, including Dr. Bernardo A. Houssay and Professor Alejandro Ceballos, have been affected. Ramirez is understood to have stated that, besides being dismissed from public office, these men will not be allowed to leave the country.

DR. KARL F. HEISER, director of the laboratory of psychology at Norwich State Hospital, Connecticut, has been appointed research director for the State Public Welfare Council.

DR. LOUIS WALDBAUER has resigned as associate professor of analytical chemistry and head of the analytical division of the department of chemistry and chemical engineering of the State University of Iowa, to become an analytical research chemist at the Cen-