

WHEREAS, More accurate and complete meteorological data are essential to many branches of human endeavor including navigation, agriculture, aviation and engineering; and

WHEREAS, The Special Committee on Meteorological Data of the American Society of Civil Engineers, the Water Resources Committee of the National Resources Committee and the Advisory Committee to the Secretary of Agriculture on the Weather Bureau, have all urged expansion and improvement of the service furnished by that bureau, which will call for an increase for appropriations for the bureau, now deemed inadequate even for the present service; therefore, be it

Resolved by the Board of Direction of the American Society of Civil Engineers that it endorses improvements in the service of the Weather Bureau, and the provision of an adequate increase in appropriation therefor, especially along the following lines:

- (a) Stimulation of the service by adding qualified new men, by additional training of selected men now in the present organization, by further personal contact between field and office officials, and by regular inspections of both first-order and voluntary stations.
- (b) Research.
- (c) Extension of upper-air observations to attain, if possible, more exact and longer range forecasting.
- (d) Increased number of observation stations, especially in the higher mountain areas, and reports from more ships at sea.
- (e) Snow surveys and evaporation observations from water, snow and soils.
- (f) The complete adoption and use of the International Figure Code.

Dr. Daniel W. Mead, professor emeritus of hydraulic and sanitary engineering, University of Wisconsin, is president of the society and chairman of the board. George T. Seabury, New York, is secretary.

THE TWELFTH NATIONAL EXPOSITION OF POWER AND MECHANICAL ENGINEERING

THE twelfth National Exposition of Power and Mechanical Engineering will be held at the Grand Central Palace, New York City, during the week of November 30. Three floors will be occupied and admission will be by invitation or by registration only. Operating exhibits will be emphasized and the equipment on display will range from power-producing equipment, factory machinery and industrial equipment to materials of construction and plant accessories.

The exhibits of equipment and products have been designed to meet current needs. Machinery will be in operation. All the effective principles of modern display will be utilized to show products so that they may be easily inspected and so that attention will be drawn to their new and important features. Competent men from technical staffs will answer questions, demonstrate products and explain how principles may be applied to the specific problems of the inquirer. The comprehensive presentation, including the latest

output of competitive manufacturers, will provide visiting executives and engineers with a sound basis for their comparison of relative advantages.

Exhibits will range from large, heavy equipment used in the generation of power to mechanical equipment for handling materials and tools. Classifications of equipment on display will include: fuels, combustion equipment; refractories, steam-generating equipment; steam distribution equipment; piping and fittings; prime movers, pumps and hydraulic equipment; electric generators and motors; electrical transmission, distribution, control; power transmission; control apparatus and precision instruments; power-driven machinery; tools and machine tools; material handling equipment; heating, ventilating, refrigeration, air conditioning; lubricants; operation and maintenance materials.

Machinery and operating plant equipment will constitute a major section of the exposition. Steam-generating equipment and accessories will as usual play a prominent part. Valves and controls of every type and the latest in pipe fittings in terms of their industrial applications will be displayed. Many exhibits will feature plant accessories. A complete line of pumping equipment will offer unusual features from the standpoint of operating efficiency. Innumerable exhibits will be devoted to the latest indicating, recording and controlling devices applicable to temperature, flow, pressure, level and time.

The American Society of Mechanical Engineers and the American Society of Refrigerating Engineers will hold meetings in New York during the week of the exposition.

THE PONTIFICAL ACADEMY OF SCIENCES

A NEW Pontifical Academy of Sciences was initiated by Pope Pius on October 30. It was announced that members had been selected solely for scientific achievement. It consists of seventy members as follows: Italy, 33; United States, 6; France, Germany and Belgium, 5 each; Holland, 4; Great Britain, 3; Austria, 2, and Czechoslovakia, Portugal, Argentina, Denmark, Norway, Poland and China, one each.

From the United States the following have been elected to membership: Alexis Carrel, professor of biology at the Rockefeller Institute, New York; George Birkhoff, professor of mathematics at Harvard University; Robert Andrews Millikan, director of the Norman Bridge Laboratory of Physics at the California Institute of Technology; Thomas Hunt Morgan, director of the Wm. G. Kerekhoff Laboratories of the Biological Sciences of the California Institute of Technology; George S. Sperti, biophysicist, formerly research professor at the University of