

\$175 to E. B. Frost, director of Yerkes Observatory, for the purchase of a Hess-Ives tint photometer for use in the Yerkes Observatory, to supplement the Hartmann micrometer in the measurement of various illuminants, of the transmission of filters for various wave-lengths, of the absorption of photometric gratings, and of other phenomena and subjects.

\$500 to Dr. Antonio Abetti, director of the Arcetri Observatory, Florence, Italy, to apply on the cost of a combined spectrograph and spectroheliograph for use in combination with a 60-foot tower telescope now under construction. It is planned that this instrument shall be used by the son of the director, Dr. Giorgio Abetti, well known to many American astronomers, recently transferred from the Observatory in Rome to the Arcetri Observatory.

\$200 to Major William Bowie, chief of the Division of Geodesy, U. S. Coast and Geodetic Survey, in temporary support of the International Latitude Observatory at Ukiah, California, to assist in meeting an emergency due to the failure of the Observatory's regular source of funds.

ASSOCIATION OF SCIENTIFIC APPARATUS MAKERS OF THE UNITED STATES OF AMERICA

THE second annual meeting of the Association of Scientific Apparatus Makers of the United States as reported in the *Journal of Industrial and Engineering Chemistry*, was held at Washington, D. C., Thursday and Friday, April 22 and 23, 1920, and was attended by thirty of the leading manufacturers of scientific instruments, analytical balances, chemical glassware, optical instruments and pyrometers.

The purpose of this association is to improve the construction and design of the scientific apparatus of this country and to standardize the same so as to get uniform quality and sizes; also, the most important object is to build up in the United States a precision instrument industry that will be of aid to the national government in time of emergency. Prior to 1914, practically all instruments of precision were imported and when our government declared war in 1917, it was found that there were not enough instrument makers and manufacturers to provide adequate supplies of precision instruments for the laboratory con-

trol of essential factories and to build fire control instruments for the Army and Navy. The association is now working to perpetuate this industry and to make the nation independent of any foreign country. In carrying out their program they are working in conjunction with the National Research Council, the American Chemical Society, Bureau of Standards and the various scientific bureaus of the National government.

One of the most important addresses of the occasion was given by Dr. S. W. Stratton, director of the Bureau of Standards, in which he set forth the various activities of the Bureau and stated how it would be possible to cooperate with this association. On Friday afternoon, at the invitation of Dr. Stratton, the association was shown through the various departments of the Bureau of Standards.

Committees were appointed on standardization in the various departments to work in conjunction with the above-mentioned agencies and also, if possible to correlate their work with the committee of the Society of Chemical Industry of Great Britain, which is working along similar lines. There was also a committee appointed on publication which will report later. The officers for the coming year are as follows: *President*, M. E. Leeds, of the Leeds & Northrup Company; *Vice-president*, H. N. Ott, of the Spencer Lens Company; *Secretary-treasurer*, J. M. Roberts, of the Central Scientific Company.

THE GRADUATE SCHOOL OF MEDICINE OF THE UNIVERSITY OF PENNSYLVANIA

At the last meeting of the board of trustees steps were taken to further equip and advance the work of the university's graduate school of medicine. A budget of \$158,079.37 was approved to meet such expenses as are not provided in the regular income of the school. Provost Smith appointed John C. Bell chairman of the joint committee on the graduate school of medicine.

A committee from the graduate school, consisting of Dean George H. Meeker, Dr. George E. de Schweinitz, Dr. Alfred Stengel and Dr. P. S. Stout, attended the meeting and ex-