
Science Exhibition

The Science Library

Booth Nos. 15-22

The Science Library, an annual cooperative exhibit by leading book publishers, this year has more than fifty sponsors. Nearly eight hundred new and standard science textbooks and established reference works have been nominated for display. A list of the books on exhibit with complete title, authors, publisher, and price will be available for visitors to the booth. This list will be combined later to form the basis of an *Occasional Publication of the AAAS* with the subtitle "Scientific and Technical Books of 1946." Both of these publications will be available to members gratis as long as the supply lasts. It is expected that the complete list will be ready in February, 1946. Through the cooperation of The Technical Library Consultants of New York several new features have been added in the exhibit. Mr. W. Phillip Leidy and Mr. Kenneth Shahabian will be in attendance at the booth to explain and demonstrate new developments in library science that may be used advantageously by scientists.

Meteorological Instrumentation

Army Air Forces and Signal Corps
War Department

The Army Air Forces and the Signal Corps are collaborating in this exhibition, presenting advancements in the fields of synoptic meteorology and meteorological instrumentation. The Air Weather Service, an arm of the Army Air Forces, is responsible for supplying current weather information and forecasts as required by the Army; the Signal Corps is responsible for the development of new meteorological instruments and equipment and for furnishing all meteorological material to the U. S. Army. In this exhibit, the displays of the various charts employed in weather station operation are provided by the Air Weather Service. These charts include synoptic weather maps illustrating methods of surface and upper atmosphere analysis. The displays of equipment and instruments used in obtaining meteorological information are provided by the Signal Corps. Limitations of space have necessitated restricting the number of pieces of equipment displayed; in some instances, particularly where bulky items cannot be accommodated, photographs are employed to illustrate, as far as possible, the recent advances made in experimental meteorology. The exhibit consists of: (1) *Sferics*—A method for locating the source regions of lightning discharges by using radio direction finding techniques, (2) *Weather Radar*—Radar instrumentation used for studies of precipitation areas, (3) *Radiosondes*—Instruments for the measurement of temperature, pressure and relative humidity in the troposphere and lower stratosphere, (4) *Aircraft Weather Equipment*—Instruments for measuring temperature and moisture content from a plane in flight, and (5) *Automatic Weather Station*—Clock controlled weather station which measures temperature, pressure, relative humidity,

wind direction and speed, cumulative rainfall and relative sunshine. Values of the various elements are transmitted from the remote stations to a centrally located radio receiving station.

Office of Naval Research

U. S. Navy
Washington, D. C.

Scientific personnel will be featured in an exhibit prepared by the Office of Naval Research. The exhibit centers around a map of the U. S. showing locations of Naval research and development laboratories. The special fields of science, scientific personnel engaged, and salary ranges for professional positions will be displayed. Representatives of the Scientific Personnel Branch of the Office of Naval Research will be at the exhibit to discuss opportunities for scientists in the Navy's research and development program.

U. S. Coast and Geodetic Survey

Department of Commerce
Washington, D. C.

The display of the Coast and Geodetic Survey will feature the results of recent research on special forms of maps designed to show topographical relief features of both land and ocean bottoms. The entire process for manufacturing the maps was developed by members of the Survey staff.

The Technicon Company

New York, N. Y.
Booth Nos. 14-15

(1) The AUTOTECHNICON, a machine for the automatic processing of tissues. The Autotechnicon fixes tissues (by any method) washes, dehydrates, clears, infiltrates and stains, ready for mounting. Operating independent of human intervention, it will process daily surgical tissues overnight, ready for microscopy in the morning, permitting speedy diagnosis, offering impressive economies in time and labor; (2) The SCOPICON, a mobile high-powered projector for microslides and color transparencies. Employs either microscope or built-in low-power magnification stages. New pressure-mercury-arc system provides ultra-intense light sources for brilliant flickerless projection, either on wall-screen (for large-group viewing) or within auxiliary table-mounted dark chamber (for small group study). Attachments for photomicrography, monotone or full-color; (3) The Lab-aid all-steel laboratory filing cabinets. Interchangeable drawers to file microslides (flat or vertically), transparencies, lantern slides, index cards, *all in the same unit*; (4) The Technicon automatic PIPETTE WASHER is a heavy-duty device for large-volume pipette washing. Pipettes require no repeated handling: a full load is gathered, washed, dried in the same basket. Unique automatic washing principle delivers sparkling-clean pipettes in three-minute washing period.