

Bureau is a portion of that devoted to the activities of the many bureaux of the Department of Agriculture. On the wall, at the rear of the section, is a large, glass base-map of the United States on which the weather map is drawn each morning by an employee of the local Weather Bureau office. Flanking it are several interesting charts—a typical northern hemisphere weather map, a chart of the average precipitation over the United States, one showing normal temperatures, etc. In a projecting portion of the wall to the right a concealed projector shows a continuous assortment of slides upon a small screen, depicting various services of the Weather Bureau to the mariner, the shipper, the farmer, the aviator, and the orchardist. A similar projection to the left houses an attractive diorama showing a California orange grove with smudge-pots working full blast upon receipt of frost warnings. Concealed illumination produces night and day effects, the smudge-pots gleaming as night falls. Copies of the Chicago Daily Weather Map and two beautiful colored cloud photographs on glass, with lights behind, complete the mural portion of the exhibit.

Even more interesting, perhaps, than the charts and photographs, is the display of instruments on a large enclosed table at the front of the space. Here are to be seen a sunshine recorder, an anemometer, a gilded Jules Richard barograph in operation, and a resplendent golden triple register, made especially for the exhibition

by Julien P. Friez & Sons, the well-known instrument makers of Baltimore, and displayed by them as their contribution to the Weather Bureau's exhibit. Here, too, are three instruments designed so that the public can operate them by merely pushing a convenient button—a telethermoscope, a solar radiation indicator, and a wind direction and velocity indicator. The entire display was contrived to be self-explanatory and self-operating, requiring the services of an attendant for only a few hours each day, to prepare the map and change the sheets on the triple register and barograph.

On the roof of the north wing of the Government Building are two six-foot supports, each complete with wind vane and anemometer. The one actuates the wind direction and velocity indicator, the other the triple register. The exposure is fairly good, except to the south and southwest, where the east tower of the famous Sky Ride and the Pylons surrounding the dome of the Federal Building offer considerable obstruction. Attached to the supports is a small shelter in which is the sensitive element of the telethermoscope. No records of rainfall are being made at the Exposition, but a typical tipping bucket rain gage is on display with the other instruments.

The installation of the instruments and other portions of the exhibit was under the direct supervision of Mr. Charles A. Donnel, Senior Meteorologist in Charge of the Chicago office of the Weather Bureau, and Mr. Owen T. Lay.—*Robert Allen Ward.*

#### NOTES

JOHN A. FLEMING, Acting Director of the Department of Terrestrial Magnetism, Carnegie Institution of Washington, was given the honorary degree of Doctor of Science by the University

of Cincinnati, June 10. Dr. Fleming is General Secretary of the American Geophysical Union and a councilor of the American Meteorological Society.