present act also as curator of the other divisions. Associate curators E. C. Leonard, C. V. Morton, and E. H. Walker are assigned to the Division of Phanerogams, and Paul Conger, in charge of the Section of Diatoms, is assigned with his collections to the Division of Cryptogams. It is expected that this reorganization will enable the staff working with the collections designated as the U. S. National Herbarium to give them better care and to respond more promptly to the many requests for information received from all parts of the world.

The National Bureau of Standards. of Selected Values of Chemical Thermo- awkward to say. dynamic Properties," which bring to-Engineering. U. S. Government laboratorequest to the Bureau.

Make Plans for-

American Roentgen Ray Society, September 14-19, Atlantic City, New Tersey.

American Chemical Society, September 15-19, New York City.

Illuminating Engineering Society, September 15-19, New Orleans, Louisiana.

American Institute of Electrical Engineers, Middle Eastern District Meeting, September 23-25, Dayton, Ohio.

American Public Health Association, October 6-10, Atlantic City, New Jersey.

American Academy of Ophthalmology and Otolaryngology, October D. C.) 12-17, Chicago.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.

COMMENTS

by Readers

called the gram calorie per square centi- intensity that of the blue and green meter per minute is very frequently used; bands. From top to bottom the colors for longer time intervals, such as an in a primary rainbow run: red, orange in cooperation with the Office of Naval hour or day, for example, the gm cal/ yellow, green, blue, indigo, violet. Usually Research, has just published in loose- cm²/hr or gm cal/cm²/day is used, when the indigo and violet bands are quite leaf form the first tables in a new and appropriate. These units are somewhat faint, whereas in this case they were comprehensive compilation of "Tables cumbersome to write and even more unusually bright.

atmosphere.

considering longer time intervals than It was dark, leaden gray in color. a minute, it is herewith proposed that the tend to confuse it with other units.

bow was the brilliance of the violet being about that of green and blue only

In solar radiation work the unit band, which at times exceeded in

A secondary rainbow was very plain, A more convenient unit is therefore above and outside the arc of the primary gether for the first time all available needed. According to F. Linke (Handb. bow. In this, as is usual, the order of published data of chemical thermody- Geophys., 1942, 8, 30) the "langley" colors was reversed, with red at the namic properties. One set of these tables, has been proposed to designate the gm bottom and green above. It is uncommon which are published in three parts, is cal/cm2/min, in honor of Samuel P. for the blue, indigo, and violet bands to being furnished to each university De- Langley, who, as the first director of the show above the green in the secondary partment of Physics, Chemistry, or Astrophysical Observatory of the Smith- rainbow, and this was no exception. sonian Institution, contributed greatly However, the width of the secondary bow, ries, research institutions, and industrial to the study of solar radiation and its even without the blues, was about equal laboratories may obtain one set each on depletion by various gases in the earth's to that of the whole primary bow. Between the primary and secondary bows However, in view of the need of the sky appeared to be lacking in light.

> Beneath and within the curve of the "langley" be defined as the gm cal/cm2, primary rainbow were the so-called where "gm cal" denotes the 15°C gm supernumerary rainbows, very brilliantly cal. It is also proposed that the written exhibited. Although these are referred abbreviation of "langley" be "ly"; to to as "familiar" phenomena by W. I. shorten the word in other ways might Humphreys in his Physics of the air (1920, pp. 456-482), they have never Having adopted the new unit we may before been seen by the writer or by many now speak of the langley per minute, other mature persons. In this case the the langley per hour (and so forth), which position of the sun, due to the time of will be written as ly/min and ly/hour. day, was almost ideal for rainbow phe-(L. B. Aldrich, Smithsonian Institution, nomena. The whole band of rainbows Washington, D. C.; H. WEXLER and appeared to lie within a vertical angle S. Fritz, U. S. Weather Bureau, Wash- of about 20°, from about 60-40° above the ington, D.C.; I. F. HAND, U. S. Weather horizon, with the zenith of the bows in a Bureau, Boston; A. Court, Office of the direction about 10° S.E. from the Ouartermaster General, and Major W. observer. Two supernumerary bands of P. MELLEN, Air Corps, Washington, color beneath the unusually brilliant violet of the primary bow were visible to this observer, and Lt. Col. J. S. Shaplund, C.E., U. S. Army, told the writer A remarkable set of rainbows was that he was able to distinguish still seen from 8:00 until about 8:15 P.M. another inner band from his place of ob-(C.D.T.) on July 20, 1947, at Urbana, servation. The only colors distinguishable Illinois. The main primary rainbow in these supernumerary bows were green showed a continuous band of clear and red-violet. The bands of green and color. The most unusual part of this violet were very narrow, their width