PUBLISHING NEWS

Prize for Science Writing

A $10 000 Corning Science Prize, to be awarded annually for the best book manuscript dealing with the natural or physical sciences for the general reader, has been announced by Little, Brown & Co., in cooperation with Corning Glass Works. The purpose of the award is to encourage writers to undertake books on science for the layman. Entries for the first award should be addressed to Corning Science Prize Editor, Little, Brown & Co., 34 Beacon Street, Boston 6, Mass., and must be received no later than March 31, 1963. The winner will be given $7500 of the $10 000 total as an outright grant and the remaining $2500 will serve as an advance against royalties. Manuscripts will be considered as offered to Little, Brown & Co. for publication on terms to be arranged by author and publisher.

Translations

Papers read by Soviet and Czech crystallographers at the Second All-Union Conference on Crystal Growth, held in Moscow, March 23–April 1, 1959, have been published in English as the third volume in a series entitled, "Growth of Crystals." The first volume in the series contained papers read at the first such conference, held in 1956; the second volume presented 24 interim reports published between the two conferences. Volume 3, priced at $25 a copy, can be ordered from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York 11, N. Y.

An English translation of the Soviet journal, *Poroshkovaya Metallurgia,* the bimonthly organ of the Institute of Metalloceramics and Special Alloys of the Ukrainian Academy of Sciences, will be published by Consultants Bureau under the title, *Soviet Powder Metallurgy*. The translated version will appear within six months after the publication of the original journal, and the English-language series will begin with the January–February 1962 issue of the Soviet publication. Annual subscriptions ($80 domestic and $85 foreign) can be ordered from Consultants Bureau at the address indicated above.

Isotopes

The sixth annual edition of an index supplying data on 8500 stable and radioactive isotopes has been published by Scientific Equipment Co. *The 1962 Isotope Index* lists the commercial source, catalog number, and price for every known available isotope as of January 1962. The revised index includes data on specific activity, half lifes, and principal radiation energies of isotopes, as well as on available calibration samples and radiographic and therapeutic sources. A section is devoted to the license requirements of the Atomic Energy Commission. The book can be ordered (for $5 a copy) from Publication Department 315, Scientific Equipment Co., P. O. Box 19086, Indianapolis 19, Ind.

NBS Reports

The third, fourth, and fifth sections of *An Ultraviolet Multiplet Table* have been issued by the National Bureau of Standards. The series, carrying the over-all designation of NBS Circular 488, is being prepared in conjunction with the program of compiling data on atomic energy levels which has been in progress at NBS for the last ten years. As each volume of *Atomic Energy Levels* is completed, a corresponding section of the *Ultraviolet Multiplet Table* is published for the same elements. One of the primary purposes in preparing the latter series has been to provide the information needed in plasma investigations and for the interpretation of rocket solar spectra. In both areas, emphasis has been given to the urgent need for study of high-ionization spectra of the more abundant elements.

Section 3 of the *Table* contains the leading multiplets for 78 spectra of 31 elements, thus bringing the number of elements covered in the series to 72. Two groups of rare earth elements making up the rest of the periodic table will be published later as a separate volume. Sections 4 and 5 comprise a finding list containing all of the lines in order of wavelength. The finding list, which provides the spectrum and multiplet number for each line, is being published to make the multiplet data easily accessible. Section 4 contains all lines entered in Sections 1 and 2 of the *Table,* arranged in order of increasing wavelengths and covering the elements hydrogen to niobium ($Z = 1$ to 41). Section 5, the last in the series, consists of a finding list of all lines in Section 3 of the *Table,* arranged in order of increasing wavelength and covering the elements molybdenum to lanthanum ($Z = 42$ to 57) and hafnium to radium ($Z = 72$ to 88).

Section 3, priced at 60¢, Section 4, priced at 45¢, and Section 5, priced at 30¢, can be ordered from the Superintendent of Documents, US Government Printing Office, Washington 25, D. C.

Also issued by NBS (but available from the Office of Technical Services, US Department of Commerce, Washington 25, D. C.) are the following recent compilations.

A Tabulation of the Thermodynamic Properties of Normal Hydrogen From Low Temperature to 300°K and From 1 to 100 Atmospheres (PB 161 621; $1.75) gives pressure, volume, temperature, internal energy, enthalpy, and entropy of normal hydrogen tabulated along isobars in 1°K steps. The report also describes a method for estimating the effect of ortho-para compositions upon the tabulated properties.

Photoionization of Atoms and Molecules (PB 161 632; $1.25) presents quantitative data from experiments on all the alkalies, magnesium, calcium, thallium, the common gases, and all rare gases except xenon.

A Survey of the Literature On Heat Transfer From Solid Surfaces to Cryogenic Fluids (PB 161 623; $1.25) lists references dealing with the characteristics of heat transfer from solid surfaces to cryogenic fluids, and related phenomena.

Ionospheric Observations of Artificially Produced Electron Clouds: Firefly 1960 (PB 161 636; $2.50) is an analysis of ionospheric soundings in which sodium and other substances were injected into the ionosphere during Project Firefly 1960.

Plasma Bibliography

More than one thousand references to material published during the past nine years on the general and specific aspects of plasma physics and magnetohydrodynamics are contained in a bibliography compiled by M. F. Aukland of the Armed Forces Technical Information Agency. The volume, *Plasma Physics & Magnetohydrodynamics—A Report Bibliography* (AD 271 170), covers the specific subject areas of electron-ion collisions, electromagnetic waves, gas ionization, magnetic pinch effects, microwaves, plasma jets, plasma sheaths, propellants and propulsion, oscillations, nuclear applications, re-entry aerodynamics, shock waves and shock tubes, and solar and extraterrestrial effects. The 267-page bibliography also includes general references on theory, analysis, and instrumentation. Priced at $2.75, the bibliography can be ordered from the Office of Technical Services, US Department of Commerce, Washington 25, D. C.

ASTM Indexes

The American Society for Testing and Materials has issued a new *Five-Year Index to ASTM Technical Papers and Reports* (1956–60), supplementing two previous listings, the fifty-year index covering ASTM publications from 1898 to 1950 and the five-year index for 1951–55. The new volume (147 pp., $3.50) can be ordered from ASTM headquarters, 1916 Race Street, Philadelphia 3, Pa.

ASTM has also announced the publication of the *1961 Index to ASTM Standards*, which contains complete listings of the Society's 1632 standards and 1218 tentatives in effect as of December 1961. The 226-page book can be obtained without charge by writing to ASTM headquarters at the address listed above.