

PUBLISHING NEWS

Nuclear Data

Physicists who are now making compilations in particular areas of nuclear physics, or who are planning to undertake such projects, are urged to contact the Subcommittee of Nuclear Constants of the U. S. National Academy of Sciences—National Research Council. The Subcommittee is offering its services as a coordination center to perform the following functions:

1. To endeavour to find sources of financial assistance in cases where publications may be delayed by lack of funds to meet secretarial or drafting expenses in preparing the manuscript, or to cover costs of publication or printing of reprints. It is hoped such assistance may be available whether or not the recipient is resident in the United States.
2. At the request of the compiler, to provide advice concerning the content or scope of a proposed compilation and to make suggestions concerning format and mode of publication.

Past efforts of the Subcommittee have encouraged a number of compilation projects, several of them involving direct participation by committee members themselves, e.g., a collection of publications concerning mass differences in *Reviews of Modern Physics*, Vol. 26, No. 4, 1954 and Vol. 29, No. 4, 1957. Other projects for which the Subcommittee has given encouragement are the preparation of "A Directory to Nuclear Data Tabulations" by Gibbs and Way, and "Accelerator Energy Calibrations" by J. B. Marion, *Reviews of Modern Physics* 33, 139 (1961).

Examples of compilations of nuclear information which would clearly be of great value if they were available today are: lifetimes of nuclear states, gamma-ray partial widths, gamma-ray multipole mixing ratios and phases, double-stripping data; elastic-scattering phase shifts, and scattering and reaction data for ions heavier than He⁴.

Active or prospective compilers in these or other areas are urged to contact J. B. Marion, University of Maryland, College Park, Md., or G. A. Bartholomew, Atomic Energy of Canada Limited, Chalk River, Ontario, Canada.

Journals

The first issue of *Radiochemistry, USSR*, containing English translations of selected papers from the Soviet journal *Radiokhimiia*, has been published by Pergamon Press, Inc. The new translation journal, which has a subscription price of \$40 for two 150-page issues per year, is edited by A. G. Maddock of Cambridge University and is intended to provide "adequate abstracts and translations of the more important papers" appearing in the Russian journal. Requests for

additional information should be directed to Pergamon Press, Inc., 122 East 55th Street, New York 22, N. Y.

Articles which have appeared in the *Scientific American* are now being issued separately as a joint venture of that magazine and W. H. Freeman and Company. At the present time 52 offprints are available in modern physics, in addition to others in chemistry, the life sciences, psychology, and the social sciences. They may be purchased at twenty cents each in any quantity or combination. Further information and a list of titles can be obtained from W. H. Freeman and Company, 660 Market St., San Francisco 4, Calif.

Books and Booklets

A twelve-page revision of the pamphlet *Questions and Answers on US Atomic Energy Commission Access Permits* (TID-4558, 3rd Rev.) has recently been issued. Amended to account for the most recent changes in the access-permit program, the booklet offers information on the means by which organizations and individuals working in nuclear science may obtain certain types of classified data. The brochure is available without charge from the Office of Technical Information Extension, US Atomic Energy Commission, P.O. Box 62, Oak Ridge, Tenn.

A compendium of data on the luminous properties of ideal thermal radiators, entitled *Tables of Blackbody Radiation Functions*, by Mark Pivovonsky, Max R. Nagel, and the staff of the Harvard University Computation Laboratory, has been published by the Macmillan Company. Originally designed as a tabulation of Planck's radiation law and related functions for use in a project concerning the development of artificial light sources for photographic-sensitometric, photometric, and colorimetric work, the collection is the outgrowth of work begun in Germany by Dr. Nagel during World War II that was partially destroyed by fire following a bombing raid and was otherwise frustrated by various wartime and postwar hazards. The tables were finally rendered obsolete on the eve of publication (Darmstadt, 1952) by a change in the formally adopted international standard value of the second Planck constant.

Even before the publication of the original tables, however, detailed preparations for the present set had begun. The recomputation was carried out by the Harvard Computation Laboratory with funds obtained through the Digital Computation Section of the Aeronautical Research Laboratory at the US Air Force

Wright Air Development Center, Dayton, Ohio, and the collection was expanded both by increasing the range of the original tables and by adding various auxiliary data in order to make it useful for a variety of radiometric problems. Conversion data are included to prevent obsolescence in case of changes in the fundamental atomic constants on which the data are based, and nomographs are provided which relate the constants to one another. The book has 481 pages and is priced at \$12.50.

A limited number of copies of a monograph entitled *A Compilation of Diamagnetic Susceptibilities of Organic Compounds*, by G. W. Smith, is available to interested research workers. The 26-page booklet lists susceptibility data for 1000 compounds as gleaned from the literature through 1958, and may be obtained free of charge by writing the author in care of the Physics Department, Research Laboratories, General Motors Corporation, Warren, Michigan.

Bibliographies

Oak Ridge National Laboratory has issued a bibliography of publications during 1960 by ORNL staff members. The 107-page listing (ORNL Central Files No. 61-6-27) includes journal articles, papers presented at meetings, reports issued by the laboratory and government agencies, and academic theses. The entries give information about the availability of reprints of journal articles, as well as the code numbers and prices of ORNL and government reports and the offices from which they may be obtained.

The 1962 edition of the bibliographic catalog, *Periodicals of the USSR*, has recently been issued by Mezhdunarodnaya Kniga, the official Soviet publishing house. The 280-page, multilingual listing (Russian, English, French, Spanish, German) includes all periodicals published in the USSR, and can be obtained from Victor Kamkin, Inc., 2906 Fourteenth St., N.W., Washington 9, D. C.

Two new bibliographies, one on controlled thermonuclear reactions and the other on direct energy-conversion devices, have been compiled by the Atomic Energy Commission and made available through the Office of Technical Services. A total of 1395 annotated references is contained in *Controlled Thermonuclear Reactions—A Selective Bibliography* by S. F. Lanier and others (TID-3072, Rev. 1). The 184-page listing is priced at \$2.75 and gives author, subject, and report number indices. *Direct Energy Conversion Devices—A Literature Source* by H. D. Raleigh (TID-3561, 23 pages, 50 cents) contains 208 unclassified references on nuclear direct energy-conversion devices. Emphasis is placed on auxiliary power devices suitable for use in satellites. Both publications can be ordered from OTS, US Department of Commerce, Washington 25, D. C.

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