

# PUBLISHING NEWS

## Journals

A new Springer-Verlag journal, *Kybernetik*, which began publication early this year, deals with the transmission and processing of information and with control processes in organisms and automata. The board of editors includes Norbert Wiener, M. Halle, and W. A. Rosenblith of the United States, in addition to a distinguished group of representatives from Germany, Austria, France, the Netherlands, and Great Britain.

The periodical will appear initially on an irregular basis. Manuscripts will be accepted in German or English and should be sent to Dr. K. Küpfmüller, Institut für allgemeine Nachrichtentechnik der Technischen Hochschule, Darmstadt, Schlossgartenstrasse 8, West Germany, or to Dr. W. Reichardt, Max Planck Institut für Biologie, Tübingen, Spemannstrasse 34, West Germany. Subscription information may be obtained from Springer-Verlag, Berlin/Wilmersdorf, Heidelberger Platz 3, Germany.

Academic Press of New York and London, and Verlag Chemie of Weinheim/Bergstrasse, Germany, have jointly announced plans for an international edition of the German Chemical journal *Angewandte Chemie*, which was founded in 1878. It will be published in English twelve times a year, beginning in January 1962, under the editorial supervision of W. Foerst, who is also editor-in-chief of the original German-language journal.

The international monthly will contain a selection of research articles, brief communications, reports of European scientific meetings, and book reviews chosen from the semimonthly issues of the German original. A sample issue, representing a complete translation of Volume 72, Number 22 (November 21, 1960) is available on request. Subscription orders for Volume 1 (priced at \$15) can be placed with Academic Press, 111 Fifth Ave., New York 3, N. Y.

Gifts of scientific journals that US scientists no longer wish to keep may be made to Latin American libraries and information centers through a new program organized by the Division of Science Development of the Pan American Union, General Secretariat of the Organization of American States. The rapid growth of science and technology in the countries of Latin America has generated a pressing need for files of scientific journals.

Donated journals are received and distributed by the US Book Exchange, Inc., of Washington, a non-profit corporation which serves as a central clearing house for the world-wide exchange between libraries of books and journals. Of USBE's 1400 member libraries, 365 are in Latin America, and this membership is

rapidly increasing. Although USBE's stock is large (over 1.5 million items are exchanged annually), requests for scientific journals exceed the supply. The Pan American Union program is aimed at enlarging USBE's supply of scientific periodicals and increasing Latin American membership and participation in the exchange activities.

Further information may be obtained from the US Book Exchange, Inc., 3335 V St., N. E., Washington 18, D. C., or from the Division of Science Development, Pan American Union, Washington 6, D. C.

## Compilations

A stellar atlas charting the infrared radiations of known stars is being prepared by Eastman Kodak Company for use in the development of systems for space navigation. The project is performed under a contract with the Army Rocket and Guided Missile Agency in Redstone, Ala., and employs special infrared-sensing equipment developed by Kodak which is used with the 69-inch reflecting telescope at Ohio State University. The first stellar information covering the middle wavelength portion of the infrared spectrum has already been obtained with this equipment, and new apparatus for recording the longer wavelength radiations is being constructed. Kodak is also considering the development of an infrared photometer with a wide enough field of view to search for possible "cold" stars, invisible to the eye, but detectable by infrared techniques.

The expanded and much revised second edition of *The International Dictionary of Physics and Electronics* (1355 pp., D. Van Nostrand Co., Inc., Princeton, N. J., 1961; \$27.85) reflects many of the developments in physics during the five years which have elapsed since the appearance of the first edition.

Walter C. Michels, who again served as editor-in-chief, headed the editorial board consisting of Rosalie C. Hoyt, Joseph C. May, and John R. Pruett, and the work of revising the volume was carried out by that group with the help of fifteen contributing editors. Errors were corrected, definitions were polished, and many entries had to be added, enlarged, or extensively modified in view of recent progress in nuclear physics, fluid mechanics, solid-state physics, and other fields. Recognition of the nonconservation of parity in weak interactions, for example, did not come until some months after the first edition was published, and the incorporation of the many ramifications of that discovery alone called for major revisions in the *Dictionary*. Many topics dealing with newer aspects of nuclear structure, the physics of elementary particles,

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Problems are myriad. The challenge great. The rewards immeasurable. We believe it a worthy goal to unlock doors in the Human Horizon. If you would like to share in a challenge such as this, and yours is a relevant background, we would like very much to hear from you.

# HUMAN HORIZONS



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plasma physics, and the physics of solids have been included in the volume, and the acronym "maser", which was not mentioned in the first edition, is now dignified with no less than nine separate entries. The term "laser", however, has still not made it, and the Mössbauer effect and its impact in many areas of physics must await treatment in some future edition of the *Dictionary*.

A new feature of the second edition is a group of multilingual listings giving the English equivalents of physics terms in French, German, Spanish, and Russian. Another welcome innovation is a 36-page introduction which scans in easy style the history of physics since the eighteenth century and which offers a useful series of touchstones (both "classical" and "modern") for the benefit of nonphysicist readers who want to know something of what physics is about. The essay, which may also prove rewarding to the specialized professionals in physics for the perspective view it gives of their science, concludes with the following comment: "All of these stories are still unfolding and much of what might be said here would be obsolete before this dictionary comes from the press. What we hope to have accomplished, however, is a demonstration that the physics of today is built upon that of yesterday and that we can expect the physics of tomorrow to be built upon that of today. If this expectation is fulfilled, the definitions and the discussions that follow in this volume may be of assistance not only in the context of physics as it now exists, but also in understanding new developments as they occur."

The 1959 *Digest of Literature on Dielectrics*, edited by L. J. Frisco and T. D. Callinan, has recently been issued by the National Research Council. The *Digest*, published annually since 1936 by the Conference on Electrical Insulation of the Division of Engineering and Industrial Research of the NAS-NRC, provides summaries and evaluations of technical advances in various phases of the field which were published in books and journals during the year of issue. The 1959 *Digest* (NAS-NRC Publication 799) was prepared by a group of 38 experts and consists of 12 chapters in 421 pages, including a bibliography of 2200 references. Priced at \$8, it can be ordered from the National Academy of Sciences—National Research Council, 2101 Constitution Avenue, N. W., Washington 25, D. C.

A listing for high-school students describing pamphlets and other literature concerning positions and careers in science and technology has been published under the title, *Careers in Engineering, Mathematics, Science, and Related Fields, A Selected Bibliography*. Compiled by A. Neal Shedd of the US Office of Education and two Arlington, Va., high-school teachers, Anita K. Scott, and James M. McCulloch, the bibliography was published as Bulletin OE26007 by the Office of Education. It is priced at 25¢ and is available from the Superintendent of Documents, US Government Printing Office, Washington 25, D. C.

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