

THE AMHERST LABORATORY

(Residential Williamsville, Northeast of Buffalo, N. Y.)

Sylvania's center for Communications Research and Development

Manned space flight is nearing reality — opening broad areas of research in the field of interplanetary communications. Expanding programs afford imaginative physicists the opportunity to perform theoretical and experimental investigations on all aspects of the communication channel—from line of sight to ion propagation.

An Atmosphere for Serious-Minded Scientists...

New facilities offer the ideal creative climate—the right combination of industrial functionalism, modern equipment and academic purposefulness. Scientifically-oriented management appreciates and recognizes your personal contributions.

*Broad investigations are under way
in such areas as:*

**COMPOSITION OF SPACE / OPTIMUM SIGNALS FOR
COMMUNICATION CHANNELS / PHYSICS OF THE
COMMUNICATION CHANNEL / PHYSICAL BASIS OF
COMMUNICATION / WAVE PROPAGATION IN MIS-
SILE & SATELLITE ENVIRONMENTS / MAGNETOHY-
DRODYNAMICS / HYPERSONIC FLUID FLOW**

*Please send your resume, in confidence, to
Dr. Robert Malm*

AMHERST LABORATORY / SYLVANIA ELECTRONIC SYSTEMS
A Division of



SYLVANIA

SYLVANIA ELECTRIC PRODUCTS INC.

1116 Wehrle Drive • Amherst 21, New York

The Institute

Soviet Review Journal to Be Translated

PUBLISHED by the American Institute of Physics with the cooperation of the National Science Foundation, the first issue of a new English-language translation of the Soviet physics periodical *Uspekhi Fizicheskikh Nauk* will appear some time next month under the title *Soviet Physics—Uspekhi*. Although emphasis is given in *Uspekhi* to review articles comparable in scope and treatment to those appearing in *Reviews of Modern Physics*, the journal also publishes reports on scientific meetings held in the Soviet Union, as well as book reviews and other items.

The translated version, limited to articles originally appearing in Russian, will be edited by Prof. George Adashko of the City College of New York. While the original journal appears twelve times annually, the translation will be published bimonthly. The first English-language issue, for example, will carry material from the original Soviet journal issues of September and October 1958. Inquiries concerning the price of subscription should be addressed to the Circulation Manager, American Institute of Physics, 335 East 45th Street, New York 17, N. Y.

The first issue of *Soviet Physics—Uspekhi* will contain translations of the following articles:

- Raman Spectra and the Structure of Certain Types of Inorganic Glass (Ya. S. Bobovich and T. P. Tulub)
- Temperature Dependence of the Internal Friction of Pure Metals and Alloys (V. S. Postnikov)
- The Present State of the Problem of Acceleration of Atomic Particles (V. I. Veksler)
- Diffusion Chamber (V. K. Lyapidevskii)
- Conference on Physical Methods of Investigation of Molecular Structure, May 14 & 15, 1958, Inst. of Chem. Phys., Acad. Sci. USSR (E. I. Fedin)
- New Magnetic Materials—Garnet Ferrites (K. P. Belov and M. A. Zaitseva)
- Radioastronomical Research with the Aid of Artificial Earth Satellites (G. G. Getmantsev, V. L. Ginzburg, I. S. Shklovskii)
- Theory of Fermi Liquid (A. A. Abrikovov and I. M. Khalatnikov)
- Physico Chemical Phenomena in the Deformation of Metals (V. I. Likhtman and E. D. Shchukin)
- Flash Light Sources of High Brightness (M. P. Vanyukov and A. A. Mak)
- Registration of Ion Beams with Electron Multipliers in Mass Spectroscopy and in Nuclear Research (A. I. Akishin)
- Direct Observation of Optical Crystal-Lattice Vibration in Solids by Neutron-Scattering Method (P. Chentsov)