

ican Institute of Electrical Engineers, the American Nuclear Society, the American Rocket Society, the American Society of Heating, Refrigerating and Air Conditioning Engineers, the Electrochemical Society, the Institute of Radio Engineers, and the Metallurgical Society of AIME). The Department of Defense is acting as a cosponsor and the initial meeting is being supported by the Navy Department. Support for each of the subsequent meetings will be provided by one of the military services.

The program will cover invited, tutorial reviews dealing with direct conversion processes, physical theory, synthesis and evaluation of thermoelectric materials, environmental effects, materials fabrication and assembly, methods of measurement, design parameters, and device construction and performance. It is intended that the proceedings will be published, either as a book or as a supplement to a technical journal.

For further information, contact the chairman of the program and publications committee, Dr. Philipp H. Klein, General Electric Co., Electronics Laboratory, Building 3, Room 221, Electronics Park, Syracuse, N. Y.

Plasmas

THE eleventh annual international Polytechnic Institute of Brooklyn Symposium, scheduled to be held April 4-6 in the Auditorium of the Engineering Societies Building in New York City, will be devoted to electromagnetics and fluid dynamics of gaseous plasma. The area of interest covers collective electromagnetic and fluid dynamic phenomena and their self-consistent analytical description in the temperature range characteristic of the transition between partially and fully ionized gaseous plasmas. The program will be made up of invited papers and a limited number of contributed papers and will conclude with a roundtable discussion of some future trends in plasma research.

Typical of the subjects planned for discussion at the symposium are: (1) Microscopic and Macroscopic Theories of Nonequilibrium Magneto-Fluid Dynamics (distribution function versus moment approaches, elastic and inelastic collision contributions, effects of heat conductivity, viscosity, particle trapping, instabilities); (2) Linear Wave Propagation in Uniform and Nonuniform Plasmas (classification of wave types, surface waves, effects of plasma discontinuities, random and ordered plasma radiation, experimental wave techniques); (3) Nonlinear Wave Propagation in Uniform and Nonuniform Plasmas (shocks, dissipation and excitation phenomena, harmonic generation and parametric effects, boundary layer effects, experimental techniques); and (4) Possible Applications of Magneto-Fluid Dynamics (electromechanical forces in moving plasmas, plasma generators, plasma jets, confinement, and stability).

This year the symposium is being organized by Polytechnic's Department of Aerospace Engineering and Microwave Research Institute in cooperation with

CONNECTICUT AIRCRAFT NUCLEAR ENGINE LABORATORY

offers
challenging opportunities
in the field of

ADVANCED NUCLEAR PROPULSION

Challenging problems associated with the design and development of liquid metal cooled, high temperature nuclear propulsion systems are being investigated and solved by engineers and scientists at the CONNECTICUT AIRCRAFT NUCLEAR ENGINE LABORATORY of Pratt & Whitney Aircraft.

Positions are available for graduate engineers and physicists having two or more years' experience in the following or related fields:

REACTOR

ENGINEERING

SHIELDING

PHYSICS

CONTROLS

NUCLEAR

INSTRUMENTATION

HAZARDS

*Send complete resume in confidence to
Mr. L. T. Shiembob, Office 2*

CANEL

BOX 611, MIDDLETOWN, CONNECTICUT

PRATT & WHITNEY AIRCRAFT

DIVISION OF UNITED AIRCRAFT CORPORATION

Soviet Physics—SOLID STATE

Monthly. A cover to cover translation of the USSR Academy of Sciences journal, "Fizika Tverdogo Tela."

Soviet Physics—TECHNICAL PHYSICS

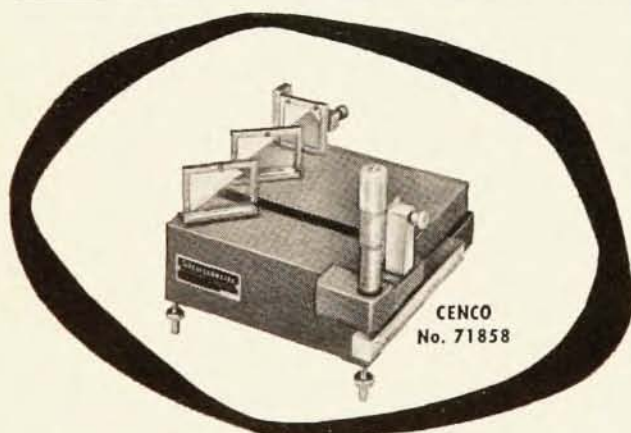
Monthly. A cover to cover translation of the USSR Academy of Sciences journal, "Zhurnal Tekhnicheskoi Fiziki."

Soviet Physics—CRYSTALLOGRAPHY

Bimonthly. A cover to cover translation of the USSR Academy of Sciences journal, "Kristallografiya."

Please address orders and inquiries to the publisher:

AMERICAN INSTITUTE OF PHYSICS
335 East 45th Street, New York 17, N. Y.



NOW! a low cost Michelson INTERFEROMETER

This precision instrument is ingeniously designed to provide .2% accuracy at minimum cost. Directly calibrated in inches. Clear, well defined fringes are observable and measurable. Refractive properties of transparent materials can be easily studied. Sturdily constructed for classroom or laboratory research.

Complete with monochromatic mercury light and illustrated experiment manual . . . only \$209.95



CENTRAL SCIENTIFIC CO.

A Subsidiary of Cenco Instruments Corporation
1718-B Irving Park Road • Chicago 13, Illinois
Mountainside, N. J. Montreal Santa Clara
Somerville, Mass. - Toronto Los Angeles
Birmingham, Ala. Ottawa Vancouver Houston
Cenco S.A., Breda, The Netherlands Tulsa

the Institute of Radio Engineers and the Institute of the Aerospace Sciences and with the cosponsorship of the Air Force Office of Scientific Research, the Office of Naval Research, and the Army Signal Corps. Further information can be obtained from Professors Martin Bloom and Enrico Levi, cochairmen of the Symposium Committee, Polytechnic Institute of Brooklyn, 55 Johnson Street, Brooklyn 1, N. Y. The closing date for submission of papers or 200-word abstracts, which should be sent to the above address, is December 20.

Spectroscopy

ORIGINAL papers in the fields of mass, emission, x-ray, general absorption, infrared, NMR, EPR, Raman, and flame spectroscopy are desired for presentation at the 12th Annual Symposium on Spectroscopy of the Chicago Section of the Society for Applied Spectroscopy. The meeting will take place May 15-18 at the Conrad Hilton Hotel in Chicago and will include an exhibit of appropriate instrumentation. The deadline for titles and abstracts is February 15.

Further information is available from the Symposium Coordinator, Mr. William Ashby, Continental Can Company, Inc., 7622 South Racine Avenue, Chicago 20, Ill.

Mass Spectrometry

THE Ninth Annual Meeting of the American Society for Testing Materials Committee E-14 on Mass Spectrometry will be held June 4-9 in Chicago. The program will include topics in fundamental and applied research, as well as instrumentation and techniques. Abstracts of proposed papers should be sent before February 1 to Dr. R. E. Fox, Physics Department, Westinghouse Research Laboratories, Pittsburgh 35, Pa. Other communications with regard to the meeting should be addressed to Dr. George Crable, Gulf Research Center, P. O. Box 2038, Pittsburgh 30, Pa.

Acoustics

PHYSICAL, technical, physiological, and psychological acoustics will be covered at the Fourth International Congress on Acoustics to be held from August 21 to 28, 1962, in Copenhagen. Sponsored by the International Commission on Acoustics, it is being organized by the Acoustical Societies of Scandinavia, a union of scientific bodies in Denmark, Finland, Norway, and Sweden. The Acoustical Society of Denmark will be in charge of local arrangements. An international exhibition of acoustical equipment will be arranged in connection with the Congress.

In view of the great number of contributions to the 1959 Congress, the Commission has announced that it may be necessary to limit the number of papers accepted for presentation in 1962. Preference will be given to new material of scientific interest, and papers which have already been published will not be accepted. Technical sessions will be held in the buildings of The Royal Technical University in Copenhagen.

For further information as it becomes available, write to the secretary of the Fourth ICA Congress, 10 Oestervoldgade, Copenhagen, Denmark.