

MEETINGS

Nuclear Science

GAMMA-RAY transition probabilities, moments of excited nuclear states, and nuclear theory applicable to both the interpretation of experimental results and to the predictions of the electromagnetic properties of nuclear states from nuclear models are among the topics to be discussed at an invited conference on Electromagnetic Lifetimes and Properties of Nuclear States to be held October 5-7 in Gatlinburg, Tenn. The meeting will be sponsored by the Subcommittee on Nuclear Constants of the NAS-NRC Committee on Nuclear Science, the Atomic Energy Commission, and the Oak Ridge National Laboratory.

Persons wishing to participate should write to D. M. Van Patter, Bartol Research Foundation, Swarthmore, Pa.

Vacuum Science and Technology

ATENTATIVE program has been released by the program committee for the Eighth Annual Symposium of the American Vacuum Society, which will convene jointly with the Second International Congress of the International Organization for Vacuum Science and Technology (October 16-19) at the Sheraton-Park Hotel in Washington, D. C.

Several general technical sessions are planned which will deal with subjects as vacuum equipment (including pumps), vacuum measurements and mass spectrometry, ultra-high vacuum, evaporation and thin films, applied and theoretical studies, and space simulation and other vacuum applications. There will also be special sessions on sputtering, limitations in attaining UHV, adsorption, and vacuum metallurgy.

In addition to the technical sessions, which will be held under the Society's auspices, the International Organization for Vacuum Science and Technology will present an exhibit of high-vacuum equipment. Further information about the Symposium and Congress can be obtained by writing to A. Nerken, Vacuum-Electronics Corporation, Terminal Drive, Plainview, Long Island, N. Y.

Geomagnetics

THE University of Texas will act as host to both the Conference on Telluric and Geomagnetic Field Variations, sponsored by the International Scientific Radio Union (URSI), the University of Texas, and the Office of Naval Research, which will take place October 20-21, and the joint URSI-IRE fall meeting which will follow on October 23-25. The Geomagnetic Conference, primarily concerned with geomagnetic and telluric phenomena in the frequency range from 0.001 to 30 cycles per second, will present papers on refraction, scattering, absorption, emission, etc., in the troposphere;

surface and subsurface waves; terrain return from earth, lunar, and planetary surfaces; and nonionized planetary atmospheres, as well as other related topics. Inquiries regarding the conference should be addressed to F. X. Bostick, University of Texas, Austin, Texas.

Solid-State Circuits

ACALL for papers has been issued for the 1962 International Solid-State Circuits Conference to be held February 14-16, 1962 at the University of Pennsylvania and the Sheraton Hotel in Philadelphia. Sponsored by the Institute of Radio Engineers, the American Institute of Electrical Engineers, and the University of Pennsylvania, it is the ninth annual meeting of its kind.

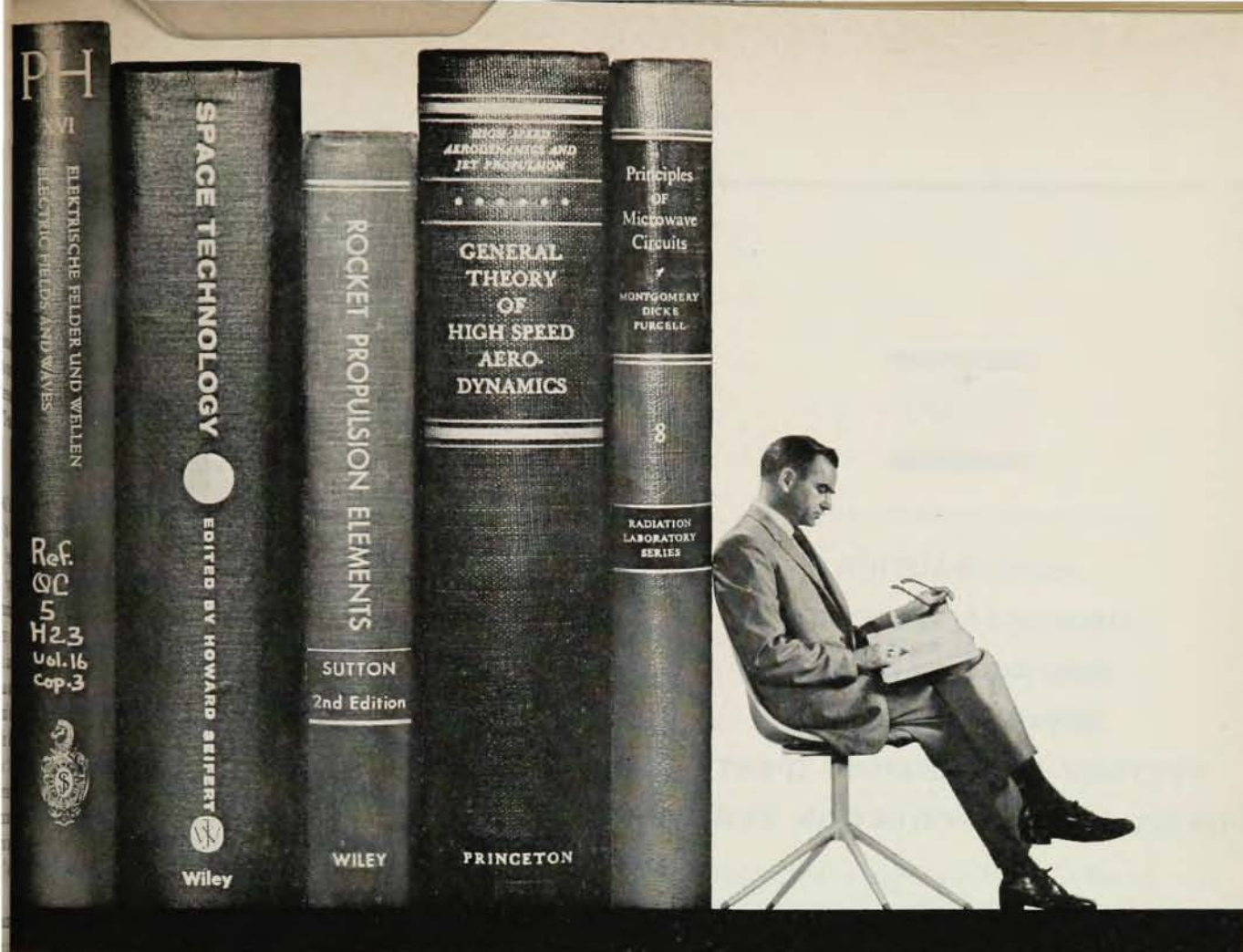
The sponsors request papers representing original contributions on the subjects of circuit properties and design techniques relating to solid-state devices in the following areas: (1) memory, storage, and logic; (2) microwave amplification, oscillation, and conversion; (3) devices performing an integrated circuit function; (4) unconventional power supplies; (5) cryogenic applications; (6) optoelectronic applications; and (7) advanced circuitry.

Abstracts of 300 to 500 words (which can be accompanied by key illustrations) should be prepared in a form suitable for immediate reproduction and submitted by November 1 to Richard H. Baker, Room C-237, MIT Lincoln Laboratory, Lexington, Mass. They should be accompanied by the author's name, affiliation, address, and telephone number on the first page, and name and abbreviated title of the paper on succeeding pages.

Spectroscopy and Chemistry

SYMPOSIA on electron-paramagnetic and nuclear-magnetic resonance, the chemical analysis of metals, gas chromatography, spectroscopic studies of polymers, and Raman, emission, vacuum, molecular, and x-ray spectroscopy will make up the program of the Thirteenth Annual Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy to be held March 5-9, 1962, at the Penn-Sheraton Hotel in Pittsburgh. The meeting, sponsored by the Analytical Chemistry Group of the Pittsburgh Section of the American Chemical Society and the Spectroscopy Society of Pittsburgh, will also present an exposition of modern laboratory equipment displaying the products of more than 100 manufacturers.

A limited number of papers, which may subsequently be published in *Analytical Chemistry* or *Applied Spectroscopy*, will be accepted for presentation at the meeting. Abstracts of not more than 150 words must be submitted in triplicate by October 16, 1961 on an official



scientists and engineers in a unique leadership role

The frontiers of space science and technology are being expanded at Aerospace Corporation. The scientists and engineers of this leadership organization are the critical civilian link uniting government and the scientific-industrial team developing space systems and advanced ballistic missiles. In providing broad scientific and technical leadership to every element of this team, they are engaged in a balanced program of activities spanning the spectrum from basic research and forward planning through general systems engineering. Included in the latter are technical supervision, integration and review of the engineering, development and test operations of industry to the extent necessary to assure achievement of system concept and objectives in an economical and timely manner. These people are privileged to view both the state-of-the-art and system development in their totality. Now more men of superior ability are needed: highly motivated scientists and engineers with demonstrated achievement, maturity, and judgment, beyond the norm. Such men are urged to contact Aerospace Corporation, Room 121, P. O. Box 95081, Los Angeles 45, California.

*Organized in the public interest and dedicated to providing objective leadership
in the advancement and application of space science and
technology for the United States Government.*



AEROSPACE CORPORATION



SOPHISTICATED RESEARCH TASKS IN

ASTRONAUTICS
UNDERSEA WARFARE
SURFACE WARFARE
MISSILE SYSTEMS
SYSTEMS MANAGEMENT (PERT)
INDUSTRIAL TRANSPORTATION SYSTEMS

A well balanced staff of physical and biological scientists, research engineers, and applied mathematicians at ORI are presently developing solutions to highly advanced problems in these areas.

If you are creative and seeking a highly favorable research environment in which to follow your profession, we invite you to investigate several new positions created by our expansion program. ORI is one of the few private organizations in the operations research field. The principal officers, and all team leaders, are scientists. ORI salaries are better than average for equivalent experience and competence. Appointments are available at ORI's facilities on both coasts. All qualified applicants will receive consideration for employment without regard to race, creed, color or national origin. Address your inquiry to:

EASTERN DIVISION:

Dr. Emory Cook, President • 8605 Cameron Street, Silver Spring, Md.

OPERATIONS RESEARCH INCORPORATED

WESTERN DIVISION

Mr. Donald Malcolm, Vice President • 225 Santa Monica Blvd., Santa Monica, Calif.

form obtainable from the program committee. Correspondence (in duplicate) regarding papers and requests for additional information should be addressed to the program chairman, C. F. Glick, The Pittsburgh Conference, Applied Research Laboratory, US Steel Corporation, Monroeville, Pa.

Reactor Physics

A HALF-DAY visit to the Atomic Energy Establishment at Winfrith, Dorset, is included in the provisional program of a symposium on the Physics of Graphite-Moderated Reactors scheduled for April 4-6, 1962, in Bournemouth, England. The meeting, which is intended particularly for the less senior members of the research and development staffs working in this field, will be sponsored by the combined Institute of Physics and Physical Society in collaboration with the British Nuclear Energy Conference. Information about the symposium can be obtained from the secretary of the Institute of Physics and Physical Society, 47 Belgrave Square, London S.W. 1, England.

Radiation Physics

RESEARCH in the 2000-A to 10-A wavelength region of the electromagnetic spectrum will be reviewed at the First International Conference on Vacuum Ultraviolet Radiation Physics to take place at the University of Southern California from April 16 to 19, 1962. The meeting, sponsored by the National Science Foundation, will present invited general-survey papers concerning work accomplished, in progress, or in the active planning stage at laboratories which are known for their long-term activities. Additional information can be obtained by writing to the conference director, G. L. Weissler, University of Southern California, Los Angeles 7, Calif.

Rarefied Gas Dynamics

TOPICS ranging from those of immediate significance for upper-atmospheric and space flight to basic studies of gas phenomena will be covered in the program of the Third International Symposium on Rarefied Gas Dynamics, which is to be held June 26-29, 1962, at the University of Paris. Subjects for discussion will include: (1) studies of the limits of the continuum theory or the quasi-equilibrium kinetic theory of gases; (2) problems in the kinetic theory, especially attempts to solve the Boltzmann equation; (3) free-molecule and near-free-molecule flow in neutral and ionized gases; (4) the physics of surface interactions between gases and solids; (5) boundary conditions for rarefied gas equations; and (6) related experimental techniques and instrumentation.

Cochairmen will be Edmond A. Brun of the University of Paris and Immanuel Estermann of the Office of Naval Research, London. P. Germain of Paris and L. Talbot of Berkeley will head the editorial committee. Inquiries from the United States should be addressed to L. Talbot, Department of Aeronautical Sciences, University of California, Berkeley, Calif.