

in friction, the influence of surface energy on friction and wear phenomena, the friction and lubrication of polymers, recent graphite experiments, kinematic analysis of stick-slip, the frictional behavior of a simple rheological material, friction of metals in reciprocation sliding, and a report on recent solid friction research at Cambridge University.

Further details can be obtained from the conference chairman, Bruce Daniel, Midwest Research Institute, 425 Volker Boulevard, Kansas City 10, Mo.

Optical Society of America

THE 1960 fall meeting of the Optical Society of America will be held October 12-14 at the Somerset Hotel in Boston. The Society's New England Chapter is arranging the meeting and serving as host.

Six sessions of contributed papers will be presented on image formation, astronomical optics and optics in space, auroral studies, optics as applied to instrumentation, and other topics. One session of the meeting is to be conducted jointly with the IRIS group (Infra Red Information Services), and will include invited papers by the following speakers: Andre Maréchal of Paris, who will discuss "New Aspects of Diffraction Theory and Progress in Filtering Techniques"; Eric Inglestam of Stockholm, who will speak on "Interferometry, Phase Contrast and Image Assessment"; and L. Bovey of Harwell, who will talk on "Atomic Spectroscopy of Transuranic Atoms". In addition, three speakers have been invited from the Soviet Union. Two seminars, one on teaching and one on vision, will also be held.

Further information on the meeting can be obtained from the executive secretary of the Optical Society, Miss Mary Warga, 1155 16th Street, N.W., Washington 6, D. C.

Energies of Space

MEDICAL and Biological Aspects of Energies of Space is the title of an international symposium to be held October 24-26 at the Hilton Hotel in San Antonio, Tex. Southwest Research Institute is in charge of arrangements for the meeting, which is sponsored by the Air Force School of Aviation Medicine, Aerospace Medical Center, Brooks Air Force Base, Tex.

The program will be divided into three one-day sessions: "the delineation of the energies of space which are important from medical and biological standpoints; the applications of these energies for biological and medical purposes; and medical and biological protection against those energies of space for which protection is required." Among the invited speakers will be Walter W. Deiminger (University of Göttingen), Walter Orr Roberts and R. Grant Athay (University of Colorado), Cornelius A. Tobias (University of California Donner Laboratory), Roger Wallace (Lawrence Radiation Laboratory), Eugene Rabinowitch (University of Illinois), Robert W. Krauss (University of Maryland), Titus Evans (University



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of Iowa), Donald Ross (Atomic Energy Commission), Franklin Hutchinson (Yale University), and Fred L. Whipple (Smithsonian Institution Astrophysical Laboratory).

Applications for invitations to attend the symposium can be obtained by writing to the symposium coordinator, Jack Harmon, Southwest Research Institute, Box 2296, San Antonio 6, Texas.

Nuclear Rockets

AUGUST 15 is the deadline for abstracts of papers to be submitted for an unclassified session on the subject of nuclear rockets which is to be conducted during the American Rocket Society's annual meeting (December 5-8 at the Shoreham Hotel in Washington, D. C.). Abstracts on nuclear rockets and related subjects should be sent to Mr. Frank Rom, National Aeronautics and Space Administration, Lewis Research Center, 21000 Brookpark Road, Cleveland, Ohio. Further information on the Rocket Society meeting can be obtained from Mr. R. L. Hohl, American Rocket Society, 500 Fifth Avenue, New York 36, N. Y.

Atmospheric Research

A PROGRAM primarily concerned with three fields of atmospheric research (air pollution, geochemistry of the troposphere and stratosphere, and the ionosphere) will be presented next spring at Stanford Research Institute's international symposium on chemical reactions in the lower and upper atmosphere. The meeting is scheduled to take place April 18-20, 1961, at the Mark Hopkins Hotel in San Francisco.

The purposes of the conference are to bring together physicists and chemists working on basic atmospheric reactions and to provide an opportunity for the exchange of information in the various related fields. Applications of such research are to be found in missile and satellite programs, weather analysis, smog control projects, and long-range radio communication studies.

Attendance will be limited to approximately 300 participants. The papers will be distributed in advance of the meeting to facilitate active discussion. Persons wishing to be notified as plans for the meeting develop should write to the chairman, Dr. Richard D. Cadle, Stanford Research Institute, Menlo Park, Calif.

Differential Equations, Nonlinear Mechanics

CONTROL theory, stability of motion, nonlinear oscillations, and qualitative theory are some of the topics to be considered next year at a Symposium on Differential Equations and Nonlinear Mechanics. The meeting, which is scheduled to be held from July 31 through August 4, 1961, at the Air Force Academy, Colorado Springs, Colo., will be sponsored by the Air Force Office of Scientific Research and RIAS.

Requests for further information should be addressed to OSR-RIAS Symposium, Mathematics Department, 7212 Bellona Avenue, Baltimore 12, Md.