

MEETINGS

Rheo-Optics

The Polymer Research Institute and the Division of High-Polymer Physics of the American Physical Society have announced plans to cosponsor a one-day symposium on the "rheo-optics" of polymers. The meeting will take place at the University of Massachusetts in Amherst on Saturday, August 24, two days before the opening of the International Rheology Congress at Brown University in Providence. According to the preliminary announcement, the general area of rheo-optics covers dynamic-optical techniques for studying the rheology of polymers, including birefringence, dynamic infrared dichroism, x-ray diffraction, and light scattering. The program will consist of about twelve invited papers.

Additional information can be obtained from Richard S. Stein, Polymer Research Institute, University of Massachusetts, Amherst, Mass.

Surface Behavior

The Materials and Testing Group of the (British) Institute of Physics and Physical Society is arranging a conference on "some aspects of surface behavior" to be held September 16-17 at the University of Bristol. The papers will be invited and will fall into two main categories: (1) surface adsorption, diffusion, and energy, and (2) macroscopic effects involving surfaces, e.g., friction, stress corrosion, and fatigue.

Advance registration is necessary. Further details and application forms are available from the Administration Assistant, The Institute of Physics and The Physical Society, 47 Belgrave Square, London, S.W.1, England.

Space Physics

The International Academy of Astronautics and the International Astronautical Federation are cosponsoring a one-day symposium on recently acquired knowledge of the space environment. The meeting will take place in Paris on September 27, during the IAF's 14th Congress, and will be held with the support of the United Nations Educational, Scientific, and Cultural Organization and the Committee on Space Research. Review papers will be especially directed toward informing research workers in the applied and engineering sciences of the present state of knowledge in space physics.

Additional details can be obtained from the chairman of the symposium's organizing committee, Prof. A. Ehmert, Max Planck Institute for Aeronomy, Lindau, German Federal Republic.

Solid Solutions

A review of recent work on alloying behavior in concentrated solid solutions will be held on October 21, during the fall meeting of the American Institute of

Mining, Metallurgical, and Petroleum Engineers. The one-day program, arranged under the auspices of the AIME Committees on the Chemistry and Physics of Metals and on Alloy Phases, will be held at the Statler-Hilton Hotel in Cleveland.

Invited papers are scheduled on electronic theories of solid solutions, electronic properties of extensive solid solutions, quantum-mechanical calculations of size effects and interaction energies, atomic volume and size correlations, stacking faults, structural defects, long-period superlattices, and nonequilibrium structures.

Correspondence concerning the meeting should be addressed to Dr. T. B. Massalski, The Mellon Institute, 4400 Fifth Avenue, Pittsburgh 13, Pa.

Diffraction

The annual Pittsburgh Diffraction Conference will be held November 6-8 at the Mellon Institute. According to a preliminary listing of topics to be covered, sessions will deal with instrumentation and techniques, structures, metals and alloys, defect lattices, radiation damage, electron-probe microanalysis, lattice dynamics, and neutron diffraction. Prof. Caroline MacGillavry of the University of Amsterdam will be the guest speaker for an evening session on November 7th. The organizers have also announced that a placement service will be available.

Further information can be obtained from W. M. Biagas, Crucible Steel Company, PO Box 7257, Pittsburgh 13, Pa.

Combustion and Solid Propellants

Heterogeneous combustion and solid-propellant rocketry will provide the themes for two forthcoming conferences to be held under the auspices of the American Institute of Aeronautics and Astronautics.

The conference on heterogeneous combustion will take place in Palm Beach, Fla., from December 11 to 13. The program will not include papers on solid-propellant burning, but rather will be concerned with fundamental combustion processes involving solid or liquid surfaces, with emphasis on the burning of metals and the condensation of combustion products. Topics to be covered will include the inhibition of flame by solids, the combustion phenomena of metal-containing compounds, and aerodynamic phenomena involving two phases.

The AIAA's solid-propellant rocketry conference will be held January 29-31 in the Palo Alto-Sunnyvale area of California. Two series of sessions, to run concurrently, are planned. One, dealing with combustion of solid fuels, will include sessions on steady-state burning, combustion of metal ingredients, acoustic and non-acoustic combustion instability, ignition, and ignition