

MEETINGS

Nuclear physics

Oak Ridge National Laboratory, the Atomic Energy Commission and the International Union of Pure and Applied Physics will hold a conference on nuclear physics in Gatlinburg, Tenn., from 12 to 17 Sept. Ten sessions, each with invited and contributed papers, will be devoted to direct reactions, intermediate structure, analog states, electromagnetic interactions, fission, statistical properties of nuclei, mesons and their use in nuclear physics, nuclear models, nucleon-nucleon interactions, properties of individual levels and few-nucleon systems, respectively. Abstracts are due 22 July.

Information on the submission of abstracts and applications for invitations to attend the conference can be obtained from Dr. Alexander Zucker, International Conference on Nuclear Physics, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn. 37831.

Reactor physics

Nuclear Data—Microscopic Cross Sections and other Data Basic for Reactors is the title of a conference to be held 17 to 21 Oct. in Paris at the invitation of the French government. To be convened by the International Atomic Energy Agency, the meeting will be restricted to scientists actively measuring or compiling basic nuclear data for reactors.

A list of topics to be considered includes needs for data (invited papers), cross sections in the resonance energy region, cross sections and related constants (ν , η , α) for fissile nuclides, statistical aspects of resonance parameters, elastic and inelastic scattering of fast neutrons, neutron capture reactions (n,p) and (n,α) reactions, preparation of derived constants for reactor calculations and international collaboration in the nuclear-data field (invited papers).

The official channel for United States participation is through John H. Kane, Chief, International Confer-

ences Branch, Division of Technical Information, United States Atomic Energy Commission, Washington, D.C. 20545. All requests for information will be forwarded to the IAEA Secretariat in Vienna.

Liquid metals

Brookhaven National Laboratory will be the site of an international conference on the properties of liquid metals to be held from 19 to 23 Sept. Cosponsored by the Atomic Energy Commission and the International Union of Pure and Applied Physics, the meeting will present one-hour invited survey papers followed by five or six fifteen-minute contributed papers for particular areas. A tentative agenda provides for discussion of scattering from liquid metals, thermodynamic properties, mass transport, electron states in liquid metals, electron transport properties and the general relationship between metal theory and liquid-state theory. Attendance will be limited to 150 persons.

Two-hundred-word abstracts of contributions should be sent to Dr. Arthur Paskin, Assistant Head, Metallurgy and Materials Science Division, Brookhaven National Laboratory, Upton, Long Island, N.Y. Requests for further information should be sent to Dr. J. R. Weeks, also of the Metallurgy and Materials Science Division at Brookhaven.

Optics

The Optical Group of Britain's Institute of Physics and the Physical Society is organizing a conference on scattering, nonlinear optics and electromagneto-optics to be held at the University of York from 4 to 7 April.

The proposed agenda lists the following topics: scattering, including Rayleigh, Raman, and Brillouin effects and developments in information in these fields; nonlinear optics, including optical heterodyning frequency multiplication and other high-field effects; and electro-optical materials

and their application in laser systems and magneto-optical studies. Both experimental and theoretical papers will be presented.

Further details and application forms can be obtained from the Meetings Officer, The Institute of Physics and the Physical Society, 47 Belgrave Square, London SW 1, England.

Generalized functions

The theme of this year's fall meeting of the Society for Industrial and Applied Mathematics will be "applications of generalized functions to system theory." Meeting 12 to 14 Sept. at the State University of New York at Stony Brook, N.Y., the program will present invited papers on various significant phases of the theme. The papers will subsequently be published in a single issue of the *SIAM Journal*. There will also be contributed papers on applications of generalized functions theory to electrical networks, quantum fields, mechanical devices and other physical models. Abstracts, limited to 200 words, are due 11 July. Contributions by persons who are not members of the organization must be introduced by an SIAM member.

All correspondence should be addressed to Prof. A. H. Zemanian, Department of Applied Analysis, State University of New York, Stony Brook, N.Y. 11790.

Crystallography

Theory and techniques used in the calculation of the properties of point defects in metal, semiconductor, ionic and molecular crystals will be the topic of a conference to be held from 1 to 5 May in the vicinity of Washington, D.C. Attention will be directed to neutral and charged interstitials, vacancies and the simpler aggregates of these, including intensive discussion of energies and entropies of formation, interaction and motion. The conference will also deal with configuration and relaxation in the nearby lattice, electronic and vibrational states at

point defects and related topics. Requests for information should be directed to A. D. Franklin, National Bureau of Standards, Washington, D.C. 20234.

IQSY

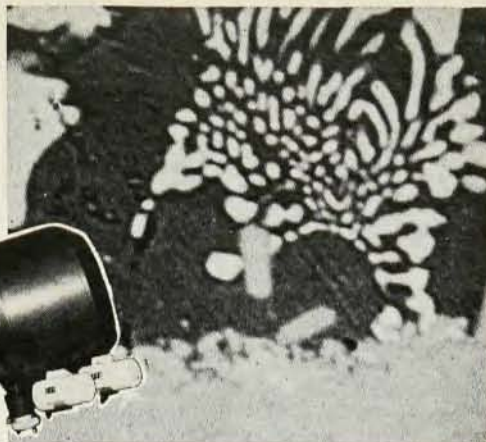
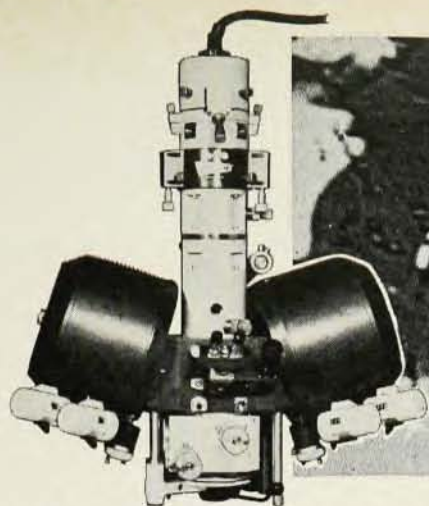
The Franklin Institute, in cooperation with the National Academy of sciences, will present a series of evening lectures this March by scientists who were involved in the International Years of the Quiet Sun (IQSY). Each lecture will take place in the Institute's lecture hall and will discuss some specific research objective of the program.

Martin A. Pomerantz (9 March) will introduce IQSY and discuss cosmic-ray research at the time; Helen Dodson Prince (16 March) will talk on solar activity; Wilmot N. Hess (23 March) will cover the nature of near space; and for the final lecture (30 March) David Johnson is tentatively scheduled for a discussion of the weather-research aspects of IQSY. For further information write to The Franklin Institute, Parkway at 20th Street, Philadelphia, Pa. 19103.

Metals and alloys

Japan's Institute of Metals is organizing an international conference on the strength of metals and alloys in commemoration of its thirtieth anniversary. The meeting will be from 4 to 8 Sept. 1967 and will consist of two sections: (1) the theory of strength and strengthening mechanisms and (2) strengthened metals and alloys. Section 1 will include dislocation and nondislocation theories; such strengthening mechanisms as work, alloy irradiation and quench hardening; recovery processes; and experimental evidence for theories and proposed mechanisms. Section 2 will cover ferrous and non-ferrous metals and alloys strengthened by various means with emphasis on correlations between strength and various parameters pertinent to microstructures, treatments, etc.

Information regarding the submission of papers and attendance will be available in April or May 1966 from Prof. R. R. Hasiguti, Department of Metallurgy, University of Tokyo, Bunkyo-ku, Tokyo, Japan.



X-ray image, Zr, Cu, Ag, In, 500X.

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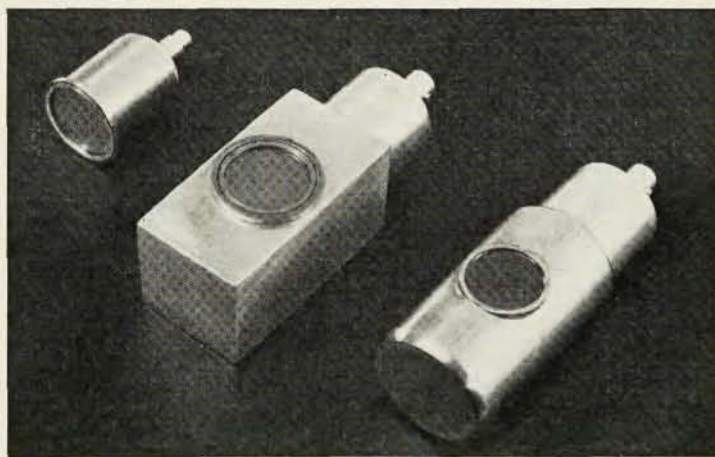
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