MEETINGS

Crystallography

Two simultaneous symposia, on electron diffraction and on crystal defects, will form the program of an international conference to be held August 16 to 21, 1965, in Melbourne, Australia. The sponsors will be the Australian Academy of Science, the International Union of Pure and Applied Physics, and the International Union of Crystallography. The emphasis of the symposium on electron diffraction will be on theory and techniques for electron scattering rather than the application of established techniques to specific problems. Subjects will include the relation of intensities in electron diffraction patterns and electron micrographs to the structure of crystalline and noncrystalline materials, and also theoretical and experimental aspects of inelastic scattering processes and slow electron diffraction.

The symposium on crystal defects will emphasize the nature of the defects and the evidence for their existence rather than their influence on the properties of crystalline solids. Both physical and chemical aspects will be considered, and specific topics will include the nature and structure of defects on the atomic scale, their origin, interaction, and experimental identification.

Additional information is available from Dr. R. I. Garrod, Aeronautical Research Laboratories, Box 4331, GPO, Melbourne, Victoria, Australia.

Spectroscopy

The British Spectroscopists Coordinating Committee, in collaboration with the Institute of Physics and the Physical Society, will hold the twelfth international spectroscopy conference from July 12 to 17, 1965, at the University of Exeter. The subjects to be covered will include optical emission, absorption, x-ray and mass spectroscopy, continuous process control, detection of nonmetallic impurities in metals, and the limitations to detection in analysis. Special attention will be given to chemical, metallurgical, medical, and biological applications. Arrangements are being made for a number of invited papers, and the program will also include about 70 contributed papers, which should be submitted for consideration before the end of the year.

All inquiries should be directed to Mrs. C. E. Arregger, 1, Lowther Gardens, Prince Consort Road, London, S. W. 7, England.

Reactor Physics

The University of Michigan will sponsor a conference on fast-reactor physics to be held June 8 through 12 at the Harbour Inn, Harbor Springs, Mich. The principal speakers will be Herbert Goldstein, Lawrence Cranberg, Elias Gyftopoulos, Paul F. Zweifel, and Felix Adler.

For further information, write to Prof. G. C. Summerfield, Department of Nuclear Engineering, University of Michigan, Ann Arbor, Mich.

Gas Dynamics

The Fourth International Symposium on rarefied gas dynamics will be held in Toronto, Canada, from July 14 to 17. The symposium is being organized by the Institute for Aerospace Studies of the University of Toronto and sponsored by the US Air Force Office of Scientific Research, the Office of Naval Research, and the National Aeronautics and Space Administration.

Papers to be presented are concerned with kinetic theory related to the flow of gases and plasmas, shock structure, free molecule flow, transition flow, gas-surface interactions, and experimental techniques.

All correspondence should be addressed to the Symposium Secretary, Institute for Aerospace Studies, University of Toronto, Toronto, Canada.

Liquid State

The National Science Foundation will sponsor a seminar from June 1 to 4 at John Carroll University in Cleveland, Ohio, on the physics of the

liquid state. The program will include papers on liquid theory and structure, dielectrics, x-ray and neutron diffraction, nuclear magnetic resonance, ultrasonics, viscoelasticity, positron annihilation, and liquid chemistry.

Details may be obtained from Joseph L. Hunter, Department of Physics, John Carroll University, Cleveland, Ohio.

Solids

A symposium on fluctuation phenomena in solids and solid-state devices will be held at the University of Minnesota on May 22. The purpose, format, and content of the meeting will resemble those of the fluctuations-in-solids symposia that were organized for several years by J. J. Brophy of ITT Research Institute (formerly Armour Research Foundation).

Interested persons should write to Dr. A. van der Ziel or Dr. K. M. van Vliet, Electrical Engineering Department, University of Minnesota, Minneapolis 14, Minn. Those wishing to contribute to the program should supply a 100-word description of the proposed paper.

Nuclear Instrumentation

The Institute of Electrical and Electronics Engineers, the National Aeronautics and Space Administration, and the Atomic Energy Commission are jointly sponsoring a symposium on nuclear instrumentation in space and in the laboratory. Organized by the IEEE Professional Technical Group on Nuclear Science, the meeting will be held October 28 to 30 in Philadelphia, and will include an exhibit of instruments. The technical program will cover laboratory instrumentation, nanosecond circuitry, radiation detectors, space nuclear propulsion, space instrumentation and phenomena, reactor-control instrumentation, and radiation effects.

One- to three-hundred-word abstracts of contributions should be sent by July 1 to W. A. Higinbotham, Brookhaven National Laboratory, Upton, Long Island, N. Y. 11973. Inquiries should be directed to Louis Costrell, National Bureau of Standards, Washington 25, D. C.