

MEETINGS

Acoustical Cavitation

The physical aspects of acoustical cavitation formed the subject of a one-day conference held March 23 at Harvard University's Acoustics Research Laboratory. The purpose of the meeting (which was judged small enough to be termed a "milliconference") was to review some of the current studies of physical phenomena associated with cavitation fields. The luminescence of cavitating fields, the nucleation of cavitation by cosmic radiation, the erosion of solids, the formation of liquid jets during bubble collapse, the stability of oscillating cavities, and the dynamics of stable and transient cavities were among the topics on which active research was reported.

F. V. Hunt of Harvard and H. G. Flynn of the University of Rochester were co-hosts for the conference. Among the invited participants were T. Brooke Benjamin of Cambridge University in England, John V. Bouyoucos of General Dynamics/Electronics in Rochester, W. S. Cramer of the Office of Naval Research, Arthur T. Ellis of the California Institute of Technology, Martin Greenspan of the National Bureau of Standards, E. A. Neppiras of the Mullard Equipment Co., a British firm, and Wesley L. Nyborg of the University of Vermont.

H. G. Flynn
University of Rochester

Standards Laboratories

On August 8, 9, and 10, the National Conference of Standards Laboratories will sponsor the 1962 Standards Laboratory Conference at the Boulder Laboratories of the National Bureau of Standards. The Colorado meeting, which will have NBS Director Allen V. Astin as general chairman, has been organized to provide a medium for disseminating information on the organization and operation of standards laboratories, with the goal of promoting increased competence, better organization, and uniform practices.

A complementary meeting, the 1962 International Conference on Precision Electromagnetic Measurements, covering the technical aspects of standards and accurate measurements, will be held August 14-16 at the Boulder Laboratories.

The Conference on Standards Laboratories will be organized into eight sessions: (1) NBS Services to Industry, (2) Measurement Agreement Among Standardizing Laboratories, (3) Error Analysis of Measurement Systems, (4) Corporate Standards Laboratories, (5) Calibration Procedures, (6) Calibration Recycle Analysis and Workload Control, (7) Training of Measurement Personnel, and (8) Recommended Practices for Standardizing Laboratories.

Further details can be obtained by writing to Alfred

E. Hess, Circuits Standards Division, National Bureau of Standards, Boulder, Colo.

Direct Energy Conversion

Advances in the technology of direct conversion of heat, light, and chemical reactions into electric power will be reviewed at the Pacific Energy Conversion Conference, which is to take place August 13-16 at the Fairmont Hotel in San Francisco. The technical program (covering fuel cells, energy storage, and thermionic, photovoltaic, thermoelectric, and magnetohydrodynamic generators), will consist of a series of lectures and panel discussions, followed by question and answer periods. Technical and educational exhibits having to do with energy-conversion systems and devices are also planned.

Requests for registration information should be addressed to Wendell B. Freeman, General Electric Co., 235 Montgomery Street, San Francisco 4, Calif.

Cryogenics

The 1962 annual Cryogenic Engineering Conference will be held August 14-16 in Los Angeles, under the auspices of the University of California at Los Angeles. Preregistration information and a copy of the program will be available in the latter part of July.

The conference, which will deal with technical aspects of engineering at temperatures below 150°K, will have no specific theme, but the conference committee is planning a series of invited papers on topics of current interest, provisionally including cryopumping, superconductivity, physical equilibria, and safety. There will also be a review of work on the mechanical properties of materials at low temperatures and an invited session on instrumentation. The program is expected to include papers on various aspects of space technology, cryogenic properties, equipment, applications, heat transfer, thermometry, and fluid-transfer phenomena.

Further information can be obtained from K. D. Timmerhaus, Secretary, Cryogenic Engineering Conference, University of Colorado, Boulder, Colo.

Transport Phenomena

Heat and charge flow in semiconductors at elevated temperatures will be stressed in the program of the Black Hills Summer Conference on Transport Phenomena which is to take place August 21-23 at the South Dakota School of Mines and Technology, Rapid City, S. D. Sponsored by the School and the Office of Naval Research, the conference aims to bring together theorists and experimenters who are especially inter-