

Announcements

AIAA PLASMADYNAMICS CONFERENCE

The AIAA Technical Committee on Plasmadynamics is organizing a conference on plasma measurements and their interpretation at the U. S. Naval Postgraduate School, Monterey, Calif., March 2-4, 1966.

The object of the conference is to present experimental results that provide improved delineation between prediction and accomplishment in the area of plasma dynamics, as contrasted with either pure diagnostics or methodology. Experiments considered may be either laboratory, flight, or astrophysical. This conference should provide a welcome opportunity for plasmadynamists to interact in depth, as well as to improve understanding of the present state of experimentally verified knowledge concerning plasmas.

The General Chairman of the Conference is:

Howard Stine
Chief, Magnetoplasmadynamics Branch
NASA Ames Research Center
Moffett Field, Calif.

Two-hundred-word abstracts will appear in the AIAA Bulletin and preprints of manuscripts will be available.

Subject areas may include the following:

Plasma Flows—including interactions with electric and magnetic fields and bodies

Measurements of Stability of Plasma Flows

Measurements of Plasma Properties—including transport properties

Experimental Investigations of the Plasma Sheath Surrounding Hypersonic Vehicles

Wave Propagation in Plasmas—including electromagnetic, magnetoacoustic, Alfvén, and shock waves

Radiation from Plasmas

Interaction and Creation of Plasmas with Laser Beams

Solar Plasma Phenomena—including interactions with the magnetosphere

Heat Transfer from Plasmas

Laboratory Techniques for Producing Quantifiable Plasmas

The AIAA Technical Committee on Space and Atmospheric Physics will participate in organizing the papers concerned with solar plasma phenomena.

INTERNATIONAL SYMPOSIUM ON GENERALIZED NETWORKS

April 12-14, 1966, New York, N. Y.

The Polytechnic Institute of Brooklyn announces a "Symposium on Generalized Networks" as the sixteenth in the MRI series of annual international symposia held in cooperation with appropriate professional groups of the Institute of Electrical and Electronics Engineers. The Hotel Commodore in New York City will be headquarters for the April 12-14, 1966, symposium.

This symposium will be concerned with extensions of network theory, particularly as associated with the port performance of complex structures into broad areas of science and technology beyond the domain of RLC circuits. Particular topics to be considered include distributed parameter systems; application of network ideas to electromagnetic propagation in all sorts of physical media such as solids, gaseous plasma, etc.; generalized theory of active networks; and realizability theory based on physical postulates. Prof. Dennis Gabor, University of London, and Prof. Josef Meixner of Aachen Institute of Technology are among the foreign participants.

The following list of topics is suggestive of the areas of particular interest:

- 1) Network theory of distributed structures
- 2) Network representations in electromagnetic theory.
- 3) Optical systems as networks.
- 4) Translation of physical laws into constraints on network reliability.
- 5) Networks as thermodynamic systems.
- 6) Network formalism in quantum mechanical systems.
- 7) New attacks on classical network problems.
- 8) Network representations of biological systems.

The symposium is organized, as in past years, under the aegis of the Microwave Research Institute of the Polytechnic Institute of Brooklyn, with the co-sponsorship of the Air Force Office of Scientific Research, the Office of Naval Research and the Army Research Office. Proceedings of the Symposium on Generalized Networks will be published as Volume XVI in the MRI Symposia Series, and will be available at a reduced rate to members of the participating societies.

The Symposium Committee Co-Chairmen are: Profs. H. J. Carlin and D. C. Youla. Papers deadline was January 1, 1966. Please address all correspondence to:

Jerome Fox, Secretary
Symposium Committee
Polytechnic Institute of Brooklyn
333 Jay Street, Brooklyn, N. Y. 11201

1966 CONFERENCE ON PRECISION ELECTROMAGNETIC MEASUREMENTS

To Be Held Next June

The 1966 Conference on Precision Electromagnetic Measurements, the fifth in the biennial series, will be held June 21, 22, and 23 at the Boulder (Colo.) Laboratories of the National Bureau of Standards. The conference is sponsored by the NBS Institute for Basic Standards (U. S. Department of Commerce), the Group on Instrumentation and Measurement of the Institute of Electrical and Electronic Engineers and the U. S. Commission 1 of the International Scientific Radio Union (URSI). The Bureau of Continuation Education

of the University of Colorado will handle local arrangements.

The aim of the Conference is the advancement of electromagnetic measurement, throughout the coherent frequency spectrum, at levels of precision and accuracy appropriate to the national standards laboratories of the world. Its scope ranges from measurement studies in the traditional fields of low frequency, high frequency, and microwaves to physical studies which may have application to future precision measurements or which may require new measurements standards. Traditionally, the program also includes survey articles presented by leading men in the field.

Chairman of the 1966 Conference is Dr. John T. Henderson, of the Canadian National Research Council. Dr. Kiyo Tomiyasu of the General Electric Company is chairman of the Technical Program, and James Brockman, of the NBS Radio Standards Laboratory, is executive secretary. Papers deadline is February 10, 1966.

Questions concerning the Conference should be addressed to Mr. John Cronland, Bureau of Continuation Education, 328 University Memorial Center, University of Colorado, Boulder, Colo.