

CALL FOR PAPERS

Technical Conference on

MATERIALS SCIENCE AND TECHNOLOGY in INTEGRATED ELECTRONICS

September 7-9, 1965
St. Francis Hotel
San Francisco, California

Sponsored by the IMD Electronic Materials Committee of the Metallurgical Society, AIME

Papers are solicited on electronic materials properties and processes of interest in integrated circuitry (monolithic, thin film, opto-electronic and superconductor).

Abstracts: 200-300 words by May 1, 1965
Send abstracts, or write for information, to:

Dr. J. J. Duga, Battelle Memorial Institute
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various resonances that have been reported in the literature, and it is also hoped that it will be possible to devote one session to a symposium on exchange mechanisms in particle interactions.

All correspondence regarding the meeting should be sent to Prof. B. A. Munir, Physics Department, Ohio University, Athens, Ohio.

Neutrons and nuclear structure

The International Union of Pure and Applied Physics has agreed to sponsor an international conference on the study of nuclear structure with neutrons. Organized by a local committee from the Belgian Centre d'Etude de l'Energie Nucléaire at Mol, the meeting will take place from July 19 to 23 in the conference room of General Motors Continental in Antwerp.

The scheduled sessions will cover basic neutron-nucleon interactions and nuclear models, nuclear spectroscopy, neutron resonances and strength functions, nuclear reactions, the optical model, and some special topics (neutron reactions in stars, very intense neutron sources, a conference summary).

Abstracts are due by April 15. Two copies, each double spaced in a single paragraph on one page are required, along with the title, the author's name, and his institution.

Requests concerning registration forms, abstracts, and inquiries about the conference should be sent to M. Neve de Mevergnies, Conference on Nuclear Structure with Neutrons, CEN, Mol, Belgium.

Electron microscopes

The annual meeting of the Electron Microscopy Society of America will take place from August 25 to 28 in the Statler-Hilton Hotel in New York City.

A highlight of this year's program will be a special symposium on instrumentation. C. E. Hall of the Massachusetts Institute of Technology will discuss the developments and expectations in electron microscopy instrumentation, and John Reisner of the Radio Corporation of America is organizing a two-hour panel session on resolving power standards for electron

microscopy. The program also includes the regular sessions of invited and contributed papers and an instrument exhibit.

Abstracts of 150 words for contributed papers and scientific exhibits should be sent by May 1 to T. R. Padden, Westinghouse Electric Corporation, PO Box 79, West Mifflin, Pa. The chairman of local arrangements is Dr. L. L. Ross, Department of Anatomy, Cornell University Medical College, 1300 York Avenue, New York 21, N. Y.

Vacuum congress

The executive committee of the International Union for Vacuum Science, Technique and Applications has decided to hold the Third International Vacuum Congress in Stuttgart, West Germany, from June 28 to July 2.

The program includes 12 invited papers, simultaneously translated into French, English, and German on measurement of low pressures, dynamics of rarefied gases, sorption on solid surfaces, gas sorption on surfaces at low temperature, physical mechanisms of cathode sputtering, applications of vacuum technique in nuclear technology and in space research, thin films, vacuum metallurgy, and freeze drying. Shorter contributed papers describing the results of recent, unpublished research will also be presented.

Application forms for attendance at the meeting may be obtained from Sekretariat des Dritten Internationalen Vakuum-Kongress, Postfach 195, 5 Köln-Bayental, West Germany.

Zeeman effect

The Dutch Physical Society will hold an international conference, from September 6 to 11 in Amsterdam, to celebrate the centenary of the birth of Pieter Zeeman.

The proposed program includes the following: (1) the significance of the Zeeman effect in modern physics, (2) the Zeeman effect in atomic spectra, (3) atomic-beam magnetic resonance, (4) double resonance, including level crossing and anti-crossing, (5) magnetic phenomena in gas lasers, (6) Zeeman effect measurement of magnetic fields in both the optical and rf regions, and



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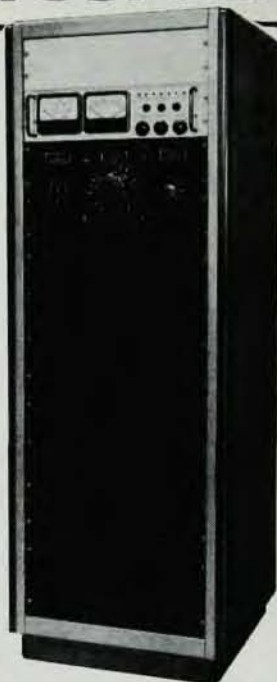
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(7) instrumental methods based on the Zeeman effect.

Further details and application forms can be obtained from Dr. Th. A. M. van Kleef, Zeeman Laboratorium, der Universiteit van Amsterdam, Plantage Muidergracht 4, Amsterdam C, The Netherlands.

Polarized nucleons

The International Union of Pure and Applied Physics and the Karlsruhe Nuclear Research Center will hold an international conference on polarization phenomena of nucleons at Karlsruhe from September 6 to 11.

The program is expected to cover (1) sources and targets of polarized nucleons, (2) acceleration of polarized particles, (3) polarization phenomena in scattering and nuclear reactions (both experimental and theoretical), (4) experiments with polarized thermal neutrons (excluding solid-state physics), and (5) experimental methods in polarization measurements. High-energy physics will be excluded from the program except where its discussion is relevant to low-energy phenomena. The deadline for receipt of abstracts (the conference language will be English) is July 1.

All correspondence concerning the meeting should be sent to International Conference on Polarization Phenomena of Nucleons, Prof. H. Schopper, Institut für Experimentall Kernphysik, Kernforschungszentrum Karlsruhe, 75 Karlsruhe, Postfach 947, Republic of Germany.

Hypersonic flight

The Air Force Cambridge Research Laboratories are sponsoring a symposium in and near Boston from September 21 to 23 on the plasma sheath and the plasma electromagnetics of hypersonic flight. Unclassified sessions will be held on the 21st and 22nd at New England Life Hall in Boston; classified sessions will take place the following day at Hanscom Field, Bedford, Mass.

The meeting is intended to cover problems relating to the transmission of electromagnetic radiation through the plasma sheath surrounding a hy-