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MEETINGS

X-ray spectra

A conference on research problems in the physics of x-ray spectra will be held June 22-24 at Cornell University. Sponsored by the Atomic Energy Commission, the National Science Foundation, the Office of Naval Research, and Cornell's Laboratory of Atomic and Solid State Physics, the meeting will cover recent experimental developments, theoretical interpretations, and promising attacks on the major problems in the field. The abstracts (deadline June 1) of contributed papers will be published in the *Bulletin of the American Physical Society* and must conform to the rules for abstracts contained in every issue.

Both abstracts and requests for further information should be sent to Herbert W. Schnopper, Laboratory of Atomic and Solid State Physics, Rockefeller Hall, Cornell University, Ithaca, N. Y.

Communications

The Institute of Electrical and Electronics Engineers is holding the first of a projected series of annual communications conventions in Boulder from July 7 to 9. Covering all aspects of communications technology, the convention will consist of general sessions, sponsored by various IEEE committees and technical groups; Globecom VII, a symposium on channel characterization and adaptive communication techniques; and an information-theory symposium on time-varying channels.

Inquiries should be addressed to W. R. Hinchman, Publicity and Publications Chairman, IEEE Communications Convention, National Bureau of Standards, Boulder, Colo.

Meteors

The Smithsonian Astrophysical Observatory will celebrate its 75th anniversary and the 200th anniversary of the birth of James Smithson by holding an international symposium on meteor orbits and dust from August 9 to 13. Sessions are planned

on the following topics: photographic meteor orbits; radio meteor orbits and/or flux; theoretical studies of meteor orbits; the Zodiacal light; and dust in space, the atmosphere, and on earth.

Requests for invitations should be sent to Dr. G. S. Hawkins, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, Mass.

Opto-electronics

An unclassified meeting on opto-electronic components and devices will be held September 6-9 in Paris by the Avionics Panel of NATO's Advisory Group for Aeronautical Research and Development. An opto-electronic device is defined as a device having an electronic input and output using photons in an intermediate state for coupling, logic-processing, memory, amplification, etc. An opto-electronic component is that portion of the device where the electrical-optical or optical-electrical transformation and optical processing occur and whose physics will be of primary interest. The meeting will include papers on techniques for optical computing and other unusual uses of optics in possible components of opto-electronic devices or systems.

Attendance at the meeting is limited to citizens of NATO countries and is by invitation from the appropriate national delegates to AGARD. Requests for invitations or information can be sent to Lt. Col. E. F. Dukes, Executive, Avionics Panel, AGARD, 64 rue de Varenne, Paris 7, France.

Thin films

The physical properties of continuous nonmetallic thin films will be the subject of a conference to be held September 23 and 24 at the Chelsea College of Science and Technology in London. Sponsored by the British Institute of Physics and the Physical Society, the meeting is expected to cover formation of thin films, electronic structure, electrical conduction, electron emission, and electronic applications, especially in active devices.

Abstracts, about 300 words, should be sent by June 15 to Dr. A. R.