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the physical metallurgy of semiconductors during the AIME 93rd annual meeting. It will take place on February 18, 1964, at the Hotel Astor in New York City, under the sponsorship of the Society's Institute of Metals Division and Committees on Physical Metallurgy and Electronic Materials.

Papers are invited on phase-diagram work on superconducting materials, the effect of metallurgical variables (heat treatment, deformation, applied stress, etc.), and the relationship between metallurgical structure (as observed by optical and electron microscopy, x-ray diffraction, etc.) and superconducting properties. The announcement states that papers are not limited to high-field superconductors.

Abstracts, 200-300 words, in duplicate, are due by October 31. These and all correspondence should be sent to C. D. Graham, Jr., General Electric Company Research Laboratory, Schenectady, N. Y.

### Rare Earths

The physics, chemistry, metallurgy, and ceramics of the rare earths and related elements will be discussed at the fourth Rare Earth Research Conference, which meets April 22-25, 1964, in Phoenix, Ariz. The meeting, which will also cover the compounds and alloys of these elements, will be restricted to persons actively engaged in research falling within the scope of the conference.

Abstracts, due by November 4, and requests for additional information should be addressed to the conference chairman, Dr. LeRoy Eyring, Department of Chemistry, Arizona State University, Tempe, Ariz.

### Micromasurements

A fourth informal conference on vacuum microbalance techniques will take place May 7 and 8, 1964, at the Mellon Institute in Pittsburgh. The program is expected to include theory, new types of balances, difficulties, associated equipment, other microweighing methods, and applications. Titles and abstracts of contributed papers are due by March 26. These, and requests for further information, should be sent to Mr. F. A. Brassart, Westinghouse Research and Development Center, Beulah Road, Churchill Borough, Pittsburgh 35, Pa.

### Quasi-Optics

Electromagnetic phenomena and techniques at wavelengths that are small compared to guiding or perturbing structures will be the topic of the fourteenth in the Polytechnic Institute of Brooklyn series of international symposia. To be held June 8-10, 1964, at the Statler-Hilton Hotel in New York City, the meeting will be organized by the Brooklyn Polytech Microwave Research Institute, in cooperation with the Institute of Electrical and Electronics Engineers. The Air Force Office of Scientific Research, the Office of Naval