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well) proposed a rapid method for the rough evaluation of surface treatments, and, in the one non-field-effect paper of the session, Albers and Thomas (Wayne State University) studied the surface magnetoresistance of extremely thin slabs.

In the over-all view, this conference left the writer with somewhat mixed feelings. On the one hand, there have been highly significant advances in many directions and clear evidence that the intensity and elegance of surface studies are on the increase. On the other hand, however, one feels a lack of broad unification in the results of the three years since the Philadelphia conference. In particular, the question of the atomic configurations responsible for the known surface states is still wide open.

There can be no question, though, of the excellence of the preparation and arrangements for this conference, and a deep debt of gratitude is due to the sponsors and to J. N. Zemel, the chairman. The proceedings are to be published as a special issue of the *Journal of the Physics and Chemistry of Solids* (papers only) and as a book (including discussions).

Daniel R. Frankl

Sylvania Research Laboratories

Mass Spectrometry

COMMITTEE E-14 on Mass Spectroscopy of the American Society for Testing Materials will hold its eighth annual meeting from June 26 through July 1 at the Hotel Dennis in Atlantic City, N. J. A total of eighty-five papers, both contributed and invited, are to be presented. The program will include four symposia on specialized topics, of which the first, a symposium on photoionization with C. A. McDowell presiding, will take place Monday morning, June 27. During the afternoon of the same day, W. R. Shields will preside at a symposium on the precise measurement of uranium isotope abundance using UF_6 . Mass spectrometric analysis of solids will be reviewed the following morning in a symposium with Mark G. Inghram presiding. The fourth symposium, on ion rearrangement processes, F. W. McLafferty presiding, will be held the afternoon of June 30.

In addition to the sessions of technical papers, there will also be subcommittee meetings to discuss gas analysis, hydrocarbon type analysis, high molecular weight techniques, wax analysis, and propylene polymer analysis. One subcommittee has scheduled an informal discussion on the role of mass spectrometry in space research.

Requests for additional information about the meeting should be sent to the program chairman of ASTM Committee E-14, Dr. Vernon H. Dibeler, National Bureau of Standards, Washington 25, D. C.

University Reactors

UNIVERSITY scientists will discuss various problems relating to the campus use of nuclear reactors at a meeting to be held August 17-19 in Gatlinburg, Tenn. Sponsored by the Oak Ridge Na-

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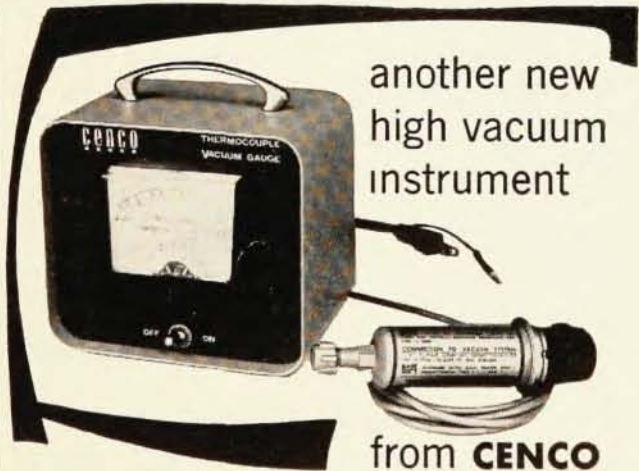
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tional Laboratory and the Oak Ridge Institute of Nuclear Studies, the conference will be held in cooperation with the Oak Ridge Section of the American Nuclear Society and the Atomic Energy Commission.

Under consideration will be the present status of university operated reactors and their employment as training and research tools; criteria for determining a university's need for a particular type of reactor; characteristics of university reactors; methods of procuring and staffing a reactor project; and the availability of university reactors from industry. A tour of the reactor installations at the Oak Ridge National Laboratory will be provided for the participants.

Further information on the meeting is available from the University Relations Division, Oak Ridge Institute of Nuclear Studies, P. O. Box 117, Oak Ridge, Tenn.

Research Methods and Instrumentation

FLUORESCENCE, infrared, activation analysis, ultracentrifuge, microscopy, and electrodes are the primary topics for discussion on the scientific program of the Symposium on Recent Developments in Research Methods and Instrumentation. The symposium, in conjunction with a research equipment exhibit, will be held October 4-7 at the National Institutes of Health, Bethesda, Md. Questions relating to the symposium should be referred to the chairman of the symposium committee, Dr. Herman C. Ellinghausen, Agricultural Research Center, US Department of Agriculture, Beltsville, Md. The exhibit manager is Mr. James B. Davis, National Institutes of Health, Bethesda 14, Md.

Electronics Research and Engineering

PAPERS describing original research and development contributions are invited for presentation at the 1960 Northeast Electronics Research and Engineering Meeting (NEREM) which is scheduled to take place November 15-17 in the Commonwealth Armory and the Sheraton-Plaza Hotel, Boston, Mass. The program will feature many invited state-of-the-art tutorial sessions, with related evening informal discussion periods. Subjects likely to be covered will include antennas; circuit theory; components, production techniques and reliability; electronic computers; engineering management; feedback control systems; information theory and processing; biomedical electronics; microwave devices; theory and techniques involving ferrites, masers, parametric amplifiers, and ionized media; military electronics including inertial, infrared, and data-handling systems; and semiconductor devices and circuits including microcircuitry and photoelectronic applications.

The *NEREM Record*, a 200-page digest of all of the presented papers, will be issued to registrants at the time of the conference. Either complete papers or 400- to 500-word abstracts (in triplicate) plus 50-word summaries should be mailed before July 15 to the program chairman, J. H. Mulligan, Jr., Department of Electrical Engineering, New York University, New York 53, N. Y.