

MEETINGS

Testing and Materials

The American Society for Testing and Materials is expecting an attendance of approximately 4000 at its 66th annual meeting, to be held June 23 through 28 at the Chalfonte-Haddon Hall Hotel in Atlantic City. The program will include sessions on x-ray and electron-probe analysis, chemical and physical effects of high-energy radiation on inorganic substances, materials in aerospace technology, adhesives, resinography, the technology of stainless steels and related alloys, and the fracture testing of metals.

Detailed information can be obtained from ASTM headquarters, 1916 Race Street, Philadelphia 3, Pa.

Superconductivity

An international conference on the science of superconductivity is to be held at Colgate University, Hamilton, N. Y., on August 26, 27, and 28. Sponsored by the International Union of Pure and Applied Physics, the National Science Foundation, the Advanced Research Projects Agency of the US Department of Defense, and the General Electric Research Lab, it is intended to be a working conference on fundamental studies of superconductivity and it will not include papers on applications. Scientists having an active interest in this field are invited to write for further information to the conference secretary, Dr. Roland W. Schmitt, General Electric Research Laboratory, PO Box 1088, Schenectady, N. Y.

Power Reactor Physics

The International Atomic Energy Agency is planning to hold a symposium on exponential and critical experiments from September 2 to 6 in Amsterdam, Holland. Emphasis is expected to be placed on experiments performed to supply the physics data necessary for the design of power reactors, and consideration will be given to the relative costs and merits of such experiments, trends of future experiments, the role of theory in experimental programs, and developments involving experimental techniques that have been found useful in dealing with specific problems in reactor physics.

In announcing the symposium, the Agency indicated the possibility of a debate concerning the future role of exponential and critical experiments in the nuclear industry. One school of thought, according to the Agency, holds that such experiments will eventually be made unnecessary because of the increasing accuracy of high-speed computers and the detailed nature of the data they provide. The opposing view is that the in-

dustry will come to rely more and more upon experimental results since the detailed computations that would otherwise be required will be neither inexpensive nor definitive.

United States participation in the symposium is being coordinated by the Atomic Energy Commission. All inquiries should be directed to John H. Kane, Chief, International Conference Branch, Division of Special Projects, US Atomic Energy Commission, Washington 25, D. C.

Ellipsometry

Application of the Drude technique to the study of surfaces and thin films, employing such methods as polarization spectrometry and ellipsometry, will be discussed at a National Bureau of Standards symposium to be held on September 5 and 6 in Washington, D. C.

The program will cover fundamentals, technique, and applications, including transmission in films and reflection from films and surfaces, application of the Drude equations to measurements of films and surfaces, and applications in surface physics, electronics, and a number of other disciplines. Further information can be obtained from Elio Passaglia, National Bureau of Standards, Washington 25, D. C.

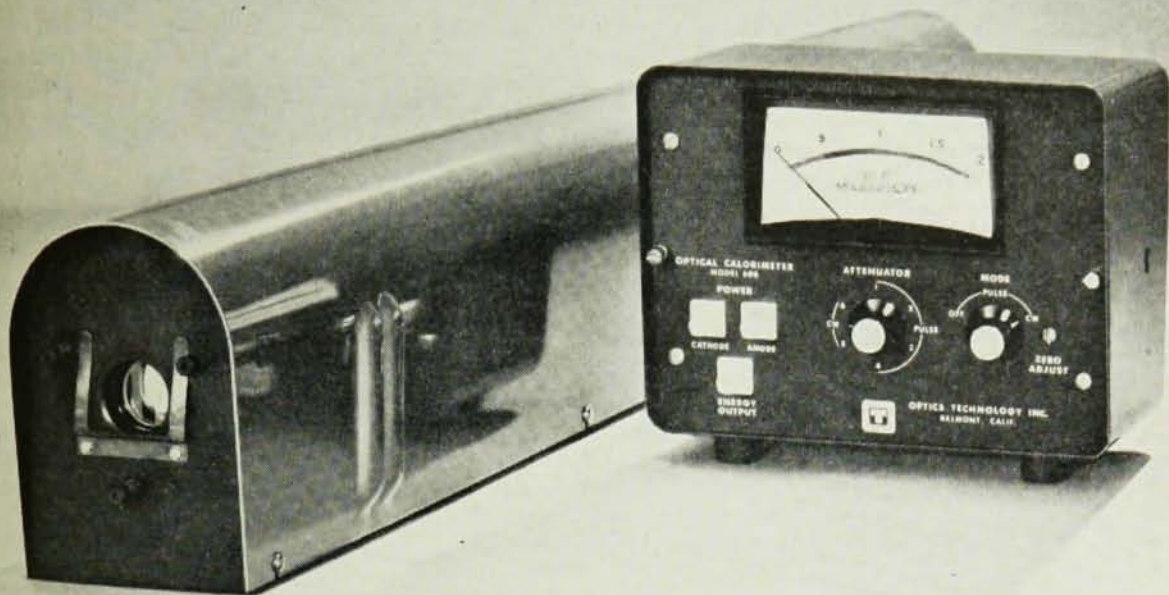
Crystallographic Apparatus

An exhibit of noncommercial crystallographic apparatus, sponsored by the Commission on Crystallographic Apparatus, will be held during the sixth General Assembly of the International Union of Crystallography, which will be held from September 9 to 18 at the Palazzi dei Congressi EUR in Rome, Italy. There will be no charge for exhibit space, according to the Commission, and research equipment such as models, teaching aids, optical devices, goniometer heads, and similar devices not available from commercial sources will be welcome.

Application forms and regulations governing the entry of exhibits can be obtained from Dr. William Parrish, Philips Laboratories, Irvington-on-Hudson, N. Y. The completed application must be received no later than July 15 by Dr. Vladimiro Scatturin, Istituto di Chimica Generale, Università Degli Studi, Bari, Italy.

Spectroscopy

The eleventh Colloquium Spectroscopicum Internationale, sponsored by the Union of the Chemical Societies of Yugoslavia, will meet in Belgrade from Sep-



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tember 30 to October 4. The technical program will be divided into three parts: (1) general spectroscopy, including the theory of spectra, astrophysical spectroscopy, and the spectroscopy of plasmas; (2) spectrochemical analyses, including emission and absorption spectroscopy in both the visible spectrum and the ultraviolet, and infrared and Raman techniques; and (3) other methods, including microwave spectroscopy, electron-paramagnetic and nuclear-magnetic resonance, x-ray fluorescence and luminescence, and mass and gamma spectroscopy. An exhibit of instruments is also being planned.

Inquiries should be directed to Dr. V. Vukanović, Prirodno—matematički fakultet, Fizičkohemijski zavod, Studentski trg 16, Blok C, Belgrade, Yugoslavia.

Physics and Nondestructive Testing

A symposium on physics and nondestructive testing, sponsored by the Southwest Research Institute, will be held at El Tropicano Hotel in San Antonio, Tex., October 1-3. Emphasis will be given to the fundamental physics underlying the methods and techniques of evaluating material properties by nondestructive testing. The program is expected to include papers dealing with the Mössbauer effect, the physics of failure, crack growth, radiology, and residual stress measurements by ultrasonics.

Further information can be obtained from Warren J. McGonnagle, Southwest Research Institute, 8500 Culebra Rd., San Antonio 6, Tex.

Nuclear Chemistry

Analytical instrumentation will be the theme of the Seventh Conference on Analytical Chemistry in Nuclear Technology, to be held October 8-10 at Gatlinburg, Tenn., under the sponsorship of Oak Ridge National Laboratory. The Conference will consist of six sessions devoted to instrumental methods for the analysis of molten-salt systems, instrumentation for the remotely controlled analysis of radioactive materials, electroanalytical instrumentation, analytical spectroscopy and gas chromatography, instrumentation in radiochemistry and nuclear analysis, and recent developments in analytical instrumentation.

Inquiries should be directed to C. D. Susano, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn.

Compound Nuclear States

Gatlinburg will also be the site of a meeting on compound nuclear states, which is to be held on October 10, 11, and 12 under the cosponsorship of the Oak Ridge National Laboratory and the American Physical Society. Designated as an APS topical conference, the meeting is open to members of the Physical Society and abstracts must conform to the requirements specified in the Society's *Bulletin*.

September 6 has been set as the deadline for the sub-

mission of abstracts. Contributors may also submit 600-word summaries, accompanied by one or two figures. The summaries (or abstracts in cases where no summaries are included) will be reproduced and distributed at the conference. Abstracts and summaries should be sent to Dr. J. L. Fowler, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn. Requests for accommodations should be sent to Mr. Tom Woods, Manager, Mountain View Hotel, Gatlinburg, Tenn.

Gaseous Electronics

Another topical conference of the American Physical Society, sponsored jointly by the Westinghouse Research Laboratories and the University of Pittsburgh, is the sixteenth annual Gaseous Electronics Conference which will take place October 16-18 in the auditorium of the Mellon Institute in Pittsburgh.

The program will deal with the basic atomic processes and phenomena associated with the physics of ionized gases. Papers on engineering applications and specific devices will not be included. Abstracts of contributed papers (conforming to Physical Society specifications) must be received no later than August 23 by Dr. George J. Schulz, Westinghouse Research Laboratories, Beulah Road, Pittsburgh 35, Pa. Inquiries concerning the meeting should be sent to Dr. M. A. Biondi, University of Pittsburgh, Pittsburgh 13, Pa.

Optical Society

October 23 to 25 are the dates of this year's annual meeting of the Optical Society of America, which is to be held at the Sherman House in Chicago. A symposium is planned on atmospheric transmission and earth albedo, with invited papers by R. Zirkind, D. Gates, C. Cummings, T. Fujita, and H. Blau. Other invited speakers at the meeting will include H. Levinstein on infrared detectors, H. Davidson on automation of color production, C. Mueller on vision, G. W. Robinson on spectroscopy, B. Lax on masers, and J. Atwood on coherent light sources and optical instrumentation. There will also be an address given by this year's Ives medallist.

Abstracts of (15-minute) contributed papers must be received by the Society's executive office no later than August 15. The necessary forms can be obtained from Dr. Mary E. Warga, Executive Secretary, Optical Society of America, 1155 Sixteenth Street, N.W., Washington 6, D. C.

IEEE

The Nuclear Science and the Ultrasonic Engineering professional groups of the Institute of Electrical and Electronics Engineers have each announced plans for meetings to take place later this year. (The IEEE is the organization formed by the recent merger of the Institute of Radio Engineers and the American Institute of Electrical Engineers.)