

LITHIUM ION DRIFT DETECTOR



SHALLOW DIFFUSED—virtually no window

DEEP DEPLETION DEPTH—greater than 1.5 mm

HIGHLY RELIABLE

EFFICIENCY—virtually 100% for charged particles

LOW CAPACITANCE—less than 25 picofarads

LOW NOISE—less than 25 Kev

AVAILABILITY—stock to 30 days

APPLICATION

■ Spectroscopy of high energy charged particles

Linear energy response

BETAS—TO 1 Mev

PROTONS—TO 16 Mev

TRITONS—TO 25 Mev

DEUTERONS—TO 21 Mev

ALPHAS—TO 65 Mev

■ Detection of—

MINIMUM IONIZING PARTICLES

GAMMA RAYS

X-RAYS

FAST NEUTRONS

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to be dealt with include: (1) atomic frequency and time, (2) determination of conductivity and complex (tensor) electric and magnetic susceptibilities, (3) direct current and low-frequency measurements, (4) radiofrequency and microwave measurements, (5) quantum electronics in precision measurements, (6) electromagnetic measurements for space exploration, and (7) data reduction in precision measurements.

Further details can be obtained from J. F. Brockman, Boulder Laboratories, National Bureau of Standards, Boulder, Colo.

Nuclear Education

AUGUST 20, 21, and 22 have been set as the dates for a conference entitled *Progress in Nuclear Education—Science and Engineering*, to be sponsored by Oak Ridge National Laboratory, Oak Ridge Institute of Nuclear Studies, and the American Nuclear Society at Gatlinburg, Tenn. The meeting has been organized in cooperation with the Atomic Energy Commission, and will be devoted to the evaluation of the status of programs in nuclear education at the graduate and undergraduate levels and to advances in secondary-school science education. A program consisting of invited papers, panel discussions, and small group discussions is planned.

For further information, write to the University Relations Division, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn.

IFIP Congress 62

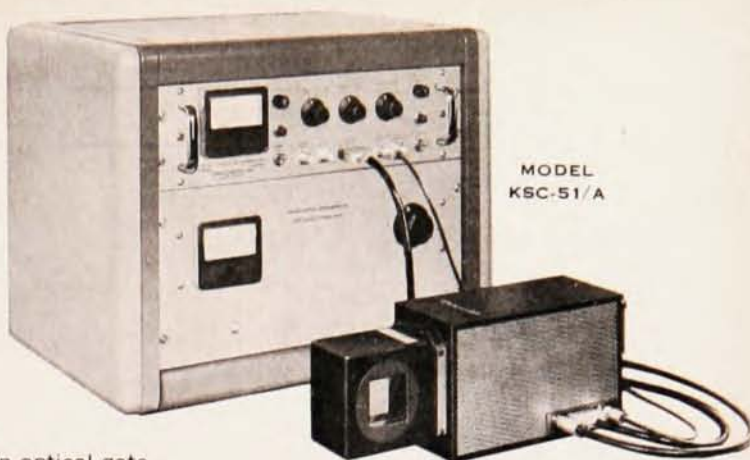
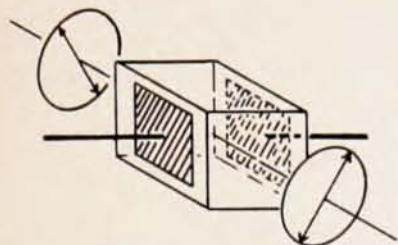
TWENTY-ONE nations will be represented at the International Federation for Information Processing Congress 62, which will be held from August 27 to September 1 in Munich, Germany. Subjects to be covered include scientific information processing, storage and retrieval of information, language translation and linguistic analysis, digital communication, advanced computer techniques, business information processing, and related matters.

The congress is intended to continue the activities of the international conference on information processing which was sponsored by UNESCO in Paris in June 1959 and which led in the following year to the establishment of the International Federation. The United States will be represented at the IFIP Congress 62 by the American Federation of Information Processing Societies. The chairman of the committee for US participation is Dr. Edward L. Harder of Westinghouse Electric Corp.

Thermal Radiation

INSTRUMENTATION and techniques will be stressed in the program of a symposium on measurement of thermal radiation properties of solids, to be held at the Biltmore Hotel, Dayton, Ohio, Septem-

Kerr Cell Instrumentation for High-Speed Photographic and Laser Applications



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EOI's KSC-51/A Kerr Cell Instrumentation System is an optical gate or modulator currently being used in laser research, fluorescence, phosphorescence and semiconductor studies. It also performs as an ultra high-speed photographic shutter in the study of exploding wires, high explosive detonation and propagation phenomena, hypervelocity ballistics, and plasma pinch and instability.

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Aperture: 0.8 x 1.5 inches, small end, and 20° total angular field.

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Jitter: Less than 15 nanosec.

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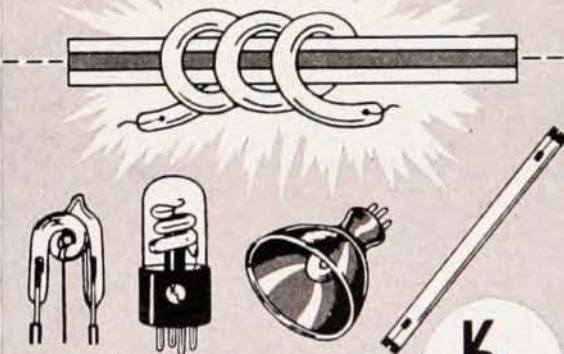
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EXPERIMENTAL PHYSICIST: to do basic research in electron physics or steady state plasma physics. A senior person is desired (Ph.D. plus several years significant research experience) who will largely motivate his own fundamental, publishable research. The research environment is in a small, highly professional group currently making contributions in superconductivity, magnetic resonance, plasma experiment and theory, statistical mechanics, spectroscopy, reactor physics and other areas of ultimate importance for the national space effort. Send complete resume to: Jet Propulsion Laboratory, California Institute of Technology, 4810 Oak Grove Drive, Pasadena, California, Attention—H. P. Marxmiller. "An equal opportunity employer"

VACANCY IN PHYSICS DALHOUSIE UNIVERSITY INSTITUTE OF OCEANOGRAPHY

Applications are invited for an academic post in physics within which the appointee will conduct research on marine problems and undertake a limited amount of formal teaching. Appointment will be made at a rank and salary appropriate to qualifications. For a recent Ph.D. the beginning salary will not be less than \$7000.

Address all correspondence and recommendations to: The Director, Institute of Oceanography, Dalhousie University, Halifax, Nova Scotia, Canada.

ber 5 to 7. Sponsored jointly by the National Bureau of Standards, the National Aeronautics and Space Administration, and the Aeronautical Systems Division of USAF, the coverage will range from 10°K to above 3000°K and from the ultraviolet into the infrared to 15 microns and beyond.

All inquiries should be directed to the chairman of arrangements, C. Robert Andrews, University of Dayton, Dayton 9, Ohio.

Neutron Interactions

A SECOND Symposium on Inelastic Scattering of Neutrons in Solids and Liquids will be held at Chalk River, Canada, from September 10 to 14, under the sponsorship of the International Atomic Energy Agency. Covering essentially the same subject matter as the first such symposium (held in 1960), the meeting will consider the study of the dynamic properties of all forms of matter by means of neutron interactions, as well as some topics, such as those dealing with gases and magnetic systems, not included in the 1960 symposium.

The scope of the meeting includes experimental or theoretical studies satisfying the following conditions: (1) that the primary interest is in dynamics of matter in any solid, liquid, or gaseous form, and in the interatomic forces which determine dynamics; (2) that the experimental method or theoretical approach is concerned with the interactions of neutrons in matter.

Specific topics listed for discussion include phonons in solids, diffusive motions in liquids, molecular energy levels, and dynamics of magnetic systems. A few surveys may be included in fields closely related to the scope of the symposium, such as studies of dynamics by gamma-ray interactions and studies of structure by neutrons.

All correspondence regarding the meeting should be addressed to the International Atomic Energy Agency, Room 2265, United Nations, New York 17, N. Y.

Reactor Chemistry

OAK Ridge National Laboratory has announced plans for a pair of conferences on reactor chemistry to be held from October 9 to 11 in Gatlinburg, Tenn. The Third Conference on Nuclear Reactor Chemistry will emphasize the chemical behavior of reactor materials, while the Sixth Conference on Analytical Chemistry in Nuclear Reactor Technology will include discussions of isotope applications, instrumentation, analysis of organic moderators, spectroscopy, and analytical developments in radiochemistry and nucleonics.

Inquiries concerning the conference on nuclear reactor chemistry should be directed to W. R. Grimes, and those concerning the analytical chemistry sessions