

ment of Physics, University of Pittsburgh, Pittsburgh 13, Pennsylvania.

Industrial Research

3rd Annual Conference in June

The third annual Conference on Industrial Research will be held at Columbia University from June 9th through June 13th. The conference, which is under the sponsorship of the Columbia Center for Studies of Research Administration, has as its theme this year "The Design of Research Operations". An outstanding program of speakers on the design of research facilities, research projects, programs, design of experiments, and operations research has been arranged. Inquiries concerning the conference should be addressed to Professor David B. Hertz, 409 Engineering Building, Columbia University, New York 27, New York.

Isotopes in Biological Research

Conference in Kansas

Kansas State College, Argonne National Laboratory, and the Isotopes Division of the United States Atomic Energy Commission will sponsor a conference on the use of isotopes in plant and animal research June 12-14, 1952, at Kansas State College, Manhattan, Kansas. A detailed program for the conference is available. Persons wishing to receive it, together with information on housing, should write to Director R. I. Throckmorton, Kansas Agricultural Experiment Station, Manhattan, Kansas.

Gordon Research Conferences

On Metal Sciences and Instrumentation

The Gordon Research Conferences, sponsored by the American Association for the Advancement of Science, will again take place this summer at the New Hampton School, New Hampton, New Hampshire. From July 14th to 18th a conference on the chemistry and physics of metals will be held under the chairmanship of David Turnbull. The program of fifteen invited papers will include a number of discussions of the kinetics of allotropic and phase transformations in solids as well as other topics of interest in metal physics and chemistry. The second conference of interest to physicists will take place from July 28th through August 1st. This will be concerned with instrumentation and will include invited papers on feedback controllers, refractometry, gas analysis by electrochemical methods, mass spectrometry, transistors, microwave spectra, and rocket spectroscopy. Other papers listed will consider the application of instrumentation methods to human affairs, biophysical research, and cytological analysis.

Established to stimulate research in universities, research foundations, and industrial laboratories, the Gordon Research Conferences consist of a series of informal morning and evening meetings with the afternoons kept free for recreation or participation in

discussion groups. Requests for additional information should be addressed to W. George Parks, Director, Department of Chemistry, University of Rhode Island, Kingston, Rhode Island. From June 15 to September 1, 1952, mail should be addressed to Colby Junior College, New London, New Hampshire.

New Research Techniques

Brazilian Symposium in July

A symposium dealing with new research in physics will be held in Brazil from July 15 to July 29, 1952, under the joint sponsorship of the Brazilian Academy of Sciences, the National Research Council of Brazil, and the Center of Scientific Cooperation for Latin America (Unesco). Physicists from the United States and from several European and Latin American countries were especially invited to attend the symposium. Papers and progress reports will be given on the following topics: betatrons, cloud chambers, vacuum tube circuits, counters, dielectrics, nuclear emulsions, Van de Graaff generators, theoretical physics, and cosmic radiation. The meetings will take place in the cities of Rio de Janeiro, São José dos Campos, and São Paulo and there will be visits to laboratories and scientific institutions in the vicinity. Further information may be obtained by writing to Professor J. Leite Lopes, Centro Brasileiro de Pesquisas Físicas, Avenida Pasteur 250, Rio de Janeiro, Brazil.

Beta- and Gamma-Radioactivity

International Conference at Amsterdam

The Netherlands Physical Society, under the auspices of the International Union of Pure and Applied Physics and supported by the Unesco, is organizing an international conference on beta- and gamma-radioactivity to take place in Amsterdam from September 1 to 6, 1952.

The organizing committee consists of: G. J. Sizoo, president; C. J. Bakker, president of the Netherlands Physical Society; J. de Boer, secretary; W. J. Beekman; H. Brinkman; H. B. G. Casimir; A. D. Fokker; S. R. de Groot; H. A. Kramers; R. Kronig; and J. M. W. Milatz.

Introductory lectures will be held on the following subjects: beta-disintegration, allowed and forbidden transitions, k-capture; gamma-transitions and internal conversion; systematics of beta- and gamma-decay and shell-model; angular and polarization-correlations; critical discussion of instruments for beta- and gamma-spectroscopy; energy calibration; measurements on nuclear recoil and detection of the neutrino. Discussions will be held in connection with these main lectures and there will be opportunity to discuss problems in more detail in sectional meetings. The following scientists have agreed to give one of the introductory lectures: S. R. de Groot (Utrecht); M. Deutsch (MIT); O. Kofoed-Hansen (Copenhagen); K. Siegbahn (Stockholm); V. F. Weisskopf (MIT); R.