

SCIENCE EDUCATION

Fulbright-Hays Program

Lectureships and advanced research positions in Australia, New Zealand, and Latin America during the 1965 academic year are available to US citizens under the Fulbright-Hays Act. The requirements are one year of college teaching experience for lecturers, and a PhD, or the equivalent professional standing, for research positions. April 15 has been set as the closing date for applications for Australia and New Zealand; applications for the Latin American program, for which a knowledge of the language of the host country is required, will be accepted as long as vacancies exist, but preference will be given to those received by May 15.

Application forms and additional information can be obtained from the Committee on International Exchange of Persons, Conference Board of Associated Research Councils, 2101 Constitution Avenue, Washington, D. C. 20418.

Soviet Lecture Demonstrations

Condensed and edited translations of the physics lecture demonstrations developed over the past sixty years at the University of Moscow are now available on 35-mm microfilm from the American Institute of Physics.

This project of the American Association of Physics Teachers' Committee on Apparatus originated with a visit by Professor Sanborn C. Brown of the Massachusetts Institute of Technology to the University of Moscow, where he obtained an eight-volume compendium entitled *Lecture Demonstrations in Physics*. After a preliminary investigation by the Apparatus Committee, a grant was obtained by the AIP from the National Science Foundation, and the translation was carried out by Professor Howard A. Robinson, chairman of the Physics Department at Adelphi University, and his wife, Kira Robinson, of Adelphi's Russian Department.

Copies (\$6 per print) should be

ordered through the American Institute of Physics, 335 East 45th Street, New York 17, N.Y.

Summer Programs

One-week courses in thermodynamics and in polymer science will be held this summer at the Massachusetts Institute of Technology.

The program in thermodynamics, scheduled for June 29- July 3, is intended for scientists and engineers interested in research, development, and teaching, and will draw heavily upon recent developments in research at MIT. The subject will be presented as a unifying science which applies to both quantum and classical systems, relativistic and Newtonian, microscopic, nuclear, and chemical.

The course in the structure and mechanical properties of fibers and crystalline polymers will take place June 22-26, and will provide a survey of recent developments in studies of polymer structure and mechanical behavior.

Further information concerning both programs can be obtained from the Summer Session Office, Massachusetts Institute of Technology, Cambridge, Mass., 02139.

The fifth annual Purdue University course in mathematical techniques of optimization will be held from June 1 to 11. The course will be divided into two sections; deterministic optimization techniques, and optimization in the face of risk, uncertainty, or competition. Work in linear, nonlinear, integer, and dynamic programming and calculus of variations as well as risk, game theory, uncertainty, theory of teams, and stochastic programming will be included.

Enrollment will be limited to about thirty persons and will be open to those with previous college training in mathematics through differential equations, and at least one course in statistics. Additional information can

be obtained from Prof. Paul H. Randolph, Division of Mathematical Sciences, Purdue University, LaFayette, Ind.

The Theoretical Physics Division of the Canadian Association of Physicists is holding a two-week summer school at the Chalk River Nuclear Laboratories, August 3 to 14.

Speakers will include W. Kohn (La Jolla, Calif.), A. A. Maradudin (Pittsburgh, Penn.), and R. J. Elliott (Oxford) in solid-state theory; and J. B. French (Rochester, N.Y.), M. Baranger (Pittsburgh, Penn.) and M. Harvey and/or E. Vogt (Chalk River) in nuclear structure theory.

Participants, including graduate students, should have some research interest in nuclear structure or solid-state theory. Some financial support for participants may be available, but only a limited number can be accommodated. For more information write to J. P. Bernier, Theoretical Physics Branch, Chalk River Nuclear Laboratories, Chalk River, Ontario, Canada.

Reactor Technology

The 1964-65 session of the advanced program in reactor technology offered by the Oak Ridge School of Reactor Technology will commence on September 21, with an application closing date of June 15. The programs cover operations supervision and hazards evaluation and are of twelve months duration. Engineers and scientists from both the US and abroad are eligible. Applicants must have a bachelor's degree in chemistry, physics, metallurgy, mathematics, engineering physics, or in aeronautical, chemical, civil, electrical, general, mechanical, metallurgical, or nuclear engineering.

Application forms and further particulars can be obtained from the Educational Division, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn.