

U. S. ARMY BALLISTIC RESEARCH LABORATORIES

Aberdeen Proving Ground, Maryland

VACANCIES FOR:

- *Nuclear Engineers and Technicians
- *Electronic Engineers and Technicians
- *Physical Scientists and Physical Science Technicians

SALARIES: From \$7710 to \$12,075 for Engineers and Physical Scientists, and from \$7220 to \$8650 for Technicians.

FUNCTIONS: Work consists of conducting radiation exposure studies in a new pulse nuclear reactor facility being constructed for the purpose of evaluating the effects of high intensity radiation on the performance of weapons, electronic equipment and other military material. The facility will provide all East Coast defense activities and contractors with a means of studying nuclear radiation effects. The work will also include research and development studies to improve the design for advanced pulse reactors especially reactor cores and controls and develop and improve diagnostic, data acquisition and data processing instrumentation and equipment. **APPLICATIONS:** Standard Form 57, which may be obtained from any Post Office or Federal Agency, should be forwarded to Board of U.S. Civil Service Examiners, Aberdeen Proving Ground, Maryland.

COMPETITIVE CIVIL SERVICE

EQUAL OPPORTUNITY

US CITIZENSHIP REQUIRED

from the Meetings Officer, The Institute of Physics and The Physical Society, 47 Belgrave Square, London SW 1, England.

Two-photon processes

The American Physical Society's Division of Electron Physics has announced the following program for a symposium it is holding during this month's APS meeting: two-photon interaction cross sections, J. J. Hopfield; two-photon decay of metastable hydrogen atoms, R. Novick; laser two-photon photodetachment of iodine, J. L. Hall; two-photon absorption and stimulated emission, I. D. Abella.

Mössbauer effect

New England Nuclear Corporation and Technical Measurement Corporation will hold a symposium on research and industrial applications of the Mössbauer effect in the Mercury Ballroom of the New York Hilton on Jan. 25. Registration information can be obtained from New England Nuclear Corporation, 575 Albany Street, Boston, Mass.

Astronautics

Papers are being solicited for the seventeenth congress of the International Astronautical Federation, which meets Oct. 9 to 15 in Madrid. General sessions of the meeting will include propulsion, theoretical and technical aspects of guidance, control, and tracking, reentry physics, systems design, satellites, and space-related life science. There will also be three special sessions: the international lunar laboratory (invited papers only), the role of astronautics in education, and the ninth colloquium of the International Institute of Space Law. Session chairmen, to be named later this year, will consider abstracts until May 15.

Inquiries should be directed to the International Astronautical Federation, 250, rue Saint-Jacques, Paris 5, France.

Solids

A conference on electronic processes in low-mobility solids will be held in

the department of physics of the University of Sheffield April 18 to 20.

The purpose of the meeting is to discuss transport phenomena, optical, dielectric, and other properties associated with electron (or polaron) hopping and tunneling in solids. Typical materials are the transition metal oxides, ferrites, amorphous solids and molecular crystals. Review papers will include the following: amorphous semiconductors, Professor N. F. Mott, (Cambridge); small polaron theory, Dr. G. L. Sewell, (London); experimental investigation of low-mobility transport properties, Dr. W. E. Spear (Leicester). Short contributions on theoretical and experimental aspects are invited, and titles are due by Feb. 21. Advance registration will be necessary and accommodation will be available in a residence hall. Correspondence should be sent to Dr. I. G. Austin, Department of Physics, The University, Sheffield 3, England.

Semiconductor physics

Britain's Institute of Physics and the Physical Society is planning to hold a conference on the physics of semiconducting compounds at the University College of Swansea, University of Wales, from September 21 to 23. Detailed papers on device technology will be excluded but contributions on all other aspects of the topic will be considered with preference given to papers related to the character of semiconducting compounds. Three-hundred-word outlines of contributions, in triplicate, should be sent by July 1 to R. H. Jones, Department of Physics, University College of Swansea, Singleton Park, Swansea, Wales. Further information will be available in May from the Meetings Officer, The Institute of Physics and Physical Society, 47 Belgrave Square, London SW 1, England.

Organic Scintillators

Argonne National Laboratory will sponsor a symposium on organic scintillators from June 20 to 22. The program will cover three major categories: theory and mechanisms (light production, response, excited states,