

SCIENCE EDUCATION

P HYSICISTS

The Applied Physics Laboratory of The Johns Hopkins University has immediate openings for physicists seeking responsible positions in which they can make full use of their analytical abilities while making essential contributions to the National Defense effort. Successful candidates will be assigned to a group engaged in the definition and solution of advanced problems. Specific problem areas include radar propagation and scattering, ionospheric physics, and nuclear weapons effects. This work, embracing both theoretical analysis and the correlation of theory with experiment, may lead to expansion of current areas of study or to entirely new areas. While much of the work is classified, some problems in basic physics will lead to publishable papers.

The Applied Physics Laboratory's location in suburban Washington, D. C., gives you a choice of city, suburban, or country living. The area offers many advantages including excellent residential areas, complete service and recreational facilities, and good schools. There are seven universities at which staff members can continue or augment their education.

If you have a Ph.D. in physics and experience related to the above programs, send your resume to:

*Mr. W. S. Kirby
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Appointments*

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New accelerator for WSU

Washington State University in Pullman has started up its new 2-MeV Van de Graaff, received as a gift last year from Stanford Research Institute. Funds for transportation and installation were received from a National Science Foundation institutional grant to the University.

H. B. Knowles will be in charge of the accelerator. It has been installed in Washington State's nuclear reactor facility, which is headed by Harold W. Dodgen. Planned experimental programs are for heavy-particle angular correlations, surface analysis, radiation biology, and fast-neutron activation analysis.

X-ray diffraction at Portland

A \$45 000 x-ray diffraction laboratory for teaching and research is now in operation at Portland State College in Oregon. Major pieces in the lab include a diffractometer, single-crystal cameras, and a microdensitometer to obtain as well as interpret x-ray data.

Use of the laboratory will be open to PSC Departments of Physics, Chemistry, and Earth Sciences for graduate and undergraduate instruction. In addition, other schools and local industry will be allowed access to the equipment for research use. Funds for the facility were made available by the Textronix Foundation, the National Science Foundation, and the General Electric Educational Assistance Fund.

While the laboratory is now located in Portland State's old main building in the Chemistry Department, it is expected to move to the \$2.7 million first unit of the new science building, which is expected to be ready for occupancy next spring.

Education journal

Early next year, Britain's Institute of Physics and Physical Society will begin publishing a monthly *Journal of Physics Education* devoted to new trends, techniques, and syllabus revisions in

physics teaching. Though primarily for teachers of Britain's sixth form (final high school year), IPPS hopes the journal will also be of some value to instructors in universities and colleges. Additional topics proposed for the new journal include teaching apparatus, with test reports on commercial equipment, interpretation of subject matter in relation to syllabuses, short articles on new topics, physics in relation to other disciplines, brain teasers, and book and film-strip reviews.

Fluid mechanics fellowship

A Boris A. Bakhmeteff Research Fellowship of \$3600 is being offered by Humanities Fund, Inc., for a graduate research project in mechanics of fluids during 1966-67. The recipient must be an MS or PhD candidate and may not hold any income-producing commitment which will interfere with his research work on a full-time basis. While study and research may be undertaken at any institution of the fellow's choice, the adequacy of its facilities will have substantial weight in his selection. Application forms and further details can be obtained from Dean William Allan, School of Engineering and Architecture, The City College of The City University of New York, New York, N.Y., 10031.

NSF fellowships

Summer fellowships for graduate teaching assistants in science, mathematics, and engineering have been announced by the National Science Foundation. Applicants must be full-time graduate students at the institutions through which they apply and must have had no less than one academic year of experience as a teaching assistant. Application forms can be obtained from the Fellowships Section, Division of Graduate Education in Science, NSF, Washington, D. C. 20550. The deadline for applications is December 3. Awards will be announced on March 15, 1966.

Postdoctoral fellowships, requiring a doctoral degree or equivalent in one of the sciences, engineering, or mathematics, also have an application deadline in early December with awards to be announced on March 15th.

Applications can be obtained from the Fellowship Office, National Academy of Sciences—National Research Council, 2101 Constitution Avenue, N.W., Washington, D. C. 20418.

Austrian winter school

Elementary particles will be the theme of the University of Graz' fifth international winter school to be held February 24 to March 9 at Schladming, Styria. The course is sponsored by Austria's federal department of education, and the state government of Styria. Further details can be obtained from Dr. Rudolf Baier, Institut für Theoretische Physik, Universitätsplatz 5, Graz, Austria.

New departments

Astronomy as a major course of study is now being offered at the Pennsylvania State University. The newly established four-member Astronomy Department officially became part of Penn's College of Science last July 1 and is headed by John P. Hagen, professor of radio astronomy and director of the University's Radio Astronomy Laboratory.

A 1500-acre campus, three miles from Newport Beach and the Pacific Ocean, is opening this fall as the new Irvine branch of the University of California. Some 1300 undergraduates and 80 graduates are expected to enroll at Irvine, which, together with the new Santa Cruz branch further to the north, brings to nine the number of campuses in the UC system.

Physics at Irvine is represented by an initial seven-man faculty consisting of Kenneth W. Ford (chairman) formerly of Brandeis University, A. Theodore Forrester from Electro-Optical Systems, Alexei A. Maradudin from Westinghouse Research Laboratories, John R. Pellam from the Garrett Corporation, Gordon L. Shaw from Stanford University, Thomas E. Stark from

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*Energy Resolution (Kev FWHM)	15 - 30	15 - 30
*Leakage Current (μ a/cm ²)	0.25 - 3.0	0.26 - 5.0
— at Operating Voltage (v)	100 - 250	100 - 250
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