

X-RAY DIFFRACTION SPECIALISTS

Sylvania's Research Laboratory on Long Island offers exceptional opportunities to Ph.D. or equivalent to take charge of X-Ray group doing basic and applied research with X-Ray diffraction and fluorescent X-Ray spectroscopy. Principal emphasis is on non-ferrous metallurgical applications with some effort directed to the study of ceramics and phosphors. Skills should include experimental techniques for determining crystal structures, crystallite sizes, preferred orientation textures, degrees of crystal perfection. Some knowledge of X-Ray spectroscopy desirable. Salary commensurate with qualifications. Excellent employee benefits available.

For confidential interview.

Write Charles F. Tufts



SYLVANIA ELECTRIC PRODUCTS, INC.

Atomic Energy Division

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POSITIONS OPEN

INDUSTRIAL PHYSICS RESEARCH

Openings for several physicists with advanced degrees and industrial experience are presently available in the newly-created long-range research laboratories of a company manufacturing a wide variety of containers, packaging materials, and automatic fabrication machinery.

Work will involve the application of fundamental physical principles to fields such as adhesion, permeability, rheology, energy conversion, high-speed materials analysis, instrumentation of automatic machinery, and irradiation of materials.

Men with versatility and originality are needed to work closely with scientists in chemistry, metallurgy, biology, and several branches of engineering.

Please send resume of education and experience to Dr. Paul M. Erlandson, Director of Research—Physics Department, Central Research and Engineering Division, Continental Can Co., 7622 S. Racine Ave., Chicago 20, Illinois.

ELECTRONIC PHYSICIST

Physicist with strong electronic experience plus a broad background in general physics. P.R.A. is an eleven-year-old firm of consulting physicists (not manufacturers) engaged in unusually interesting and challenging projects of research and development for Government and industry. U. S. citizenship required.

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WHAT RESEARCH PROBLEM is the most important to you? We are concerned with: surface phenomena on single crystals, protein characterization, solid state physics and chemistry, and perhaps (your line?). Learn about staff, facilities, and unique operation of the

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and H. M. Fitzpatrick (hydrodynamic noise), J. B. Parkinson (hydrodynamics of water-based aircraft), J. W. MacColl and R. N. Cox (basic hydroballistic phenomena), and J. C. Niedermair (hydrodynamic barriers in ship design). The program also included tours of US Navy laboratories in the Washington area.

Optical Society

THE forty-first annual meeting of the Optical Society of America will be held October 18-20 at the Lake Placid Club in Upper New York State, where the Society has met three times in the past. The program will include more than fifty contributed papers distributed over ten sessions, as well as a number of invited papers. Three of the latter will be presented at a session devoted to some optical aspects of research planned for the International Geophysical Year. Another session of four invited papers will discuss "The Newer Optical Materials" in terms of selection criteria, physical properties, and structural considerations. Still other invited addresses will review current European optical research, new developments in light sources, and the subject of "Fiber Optics" (under which title the optical properties, fabrication techniques, and various applications of single dielectric cylinders will be discussed).

At a dinner on Friday, October 19, the Frederic Ives Medal for 1956 will be presented to John Strong of Johns Hopkins University. Professor Strong will speak on "Interferometry in the Far Infrared" in his Ives Medal Address the following morning.

Optics and Microwaves

INTENDED to "promote interest in the common problems associated with optics and microwaves, and demonstrate that these lie within the scope of modern theoretical and practical optics in such diverse fields as human vision and astronomy", a Symposium on Optics and Microwaves is to be held November 14-16 at Lisner Auditorium, The George Washington University, Washington, D. C. The meeting is jointly sponsored by the Optical Society of America, The George Washington University School of Engineering, and the Institute of Radio Engineers Professional Group on Antennas and Propagation.

The technical program will consist of six sessions, each embracing a subject of general interest to all persons who deal with optical phenomena in research or application in the fields of engineering, medicine, or the related physical sciences. Survey and tutorial papers will be presented to encourage understanding of the basic physics underlying fundamental characteristics which relate optics and microwaves as the two concepts now exist.

Advance registration for the meeting is \$2.50 and may be made by mail to Symposium on Optics and Microwaves, P. O. Box 355, Falls Church, Va. Registration at the door will be \$3.50.