

WANTED: ENGINEER OR PHYSICIST

With a minimum of five years optical engineering experience for a permanent position as head of Research and Development Section. Position requires ability to supervise and co-ordinate electronic, optical and mechanical design of visual instruments, infrared seekers, aircraft penscopes, remote viewers and opto-mechanical systems. Familiarity with Government Agencies, specifications, requirements, etc., helpful. United States citizenship required.

Also permanent positions available in both research and engineering for physicists, chemists, electronic engineers, mechanical engineers, chemical engineers and optical engineers. Write giving details of education and experience to:

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use of American science and industry. The volumes, which may be ordered from the Office of Technical Services, US Department of Commerce, Washington 25, D. C., include:

AEC-tr-2924 *Problems of Metallography and the Physics of Metals—Fourth Symposium*. Institute of Metallography and the Physics of Metals, Central Scientific Research Institute of Ferrous Metallurgy, USSR; 476 pp.; 1955; \$2.20.

AEC-tr-2855 *The Statistical Theory of Phase Transitions*; by B. T. Geilikman; 77 pp.; May 1954; 45 cents.

AEC-tr-2876 *Quantum Electrodynamics, Parts 1 and 2*; by A. I. Akhiezer and V. B. Berestetsky; 2 Vols., 549 pp.; 1953; \$2.65.

AEC-tr-2875 *Table of Coulomb Phases and Amplitudes Taking into Account the Finite Nuclear Size*; by L. A. Sliv and B. A. Volchok, Academy of Sciences, USSR; 21 pp.; 1956; 25 cents.

AEC-tr-2925 *All-Union Conference on the Application of Radioactive and Stable Isotopes in the National Economy and Science and Abstracts of Papers, First All-Union Conference on Radiation Chemistry* (2 reports, 1 vol.); Academy of Sciences, USSR; 451 pp.; 1957; \$2.20.

AEC-tr-2941 *Project of a 420 MW Atomic Electric Station*; Committee for Participation of USSR in International Power Associations; 22 pp.; June 1957; 25 cents.

Arthur H. Barnes, director of the Reactor Engineering Division at Argonne National Laboratory, Lemont, Ill., died on September 8 from a heart ailment. His age was 53. Born in Brainard, N. Y., Dr. Barnes received AB, AM, and PhD degrees from Columbia University, the latter having been awarded in 1933. After serving on the teaching staff at The City College of New York (1930-45), he became associated with the Clinton Engineering Works in Oak Ridge, Tenn. In 1947 Dr. Barnes joined Argonne's Reactor Engineering Division as a senior physicist. He was named associate director of the Division in 1951 and director in 1954. While at Argonne, he developed a direct current electromagnetic pump which is in operation at the Laboratory's Experimental Breeder Reactor at Arco, Idaho. Dr. Barnes was responsible for directing and coordinating work on the design and construction of Argonne's various types of nuclear reactors. He was a member of the American Physical Society.

Philip B. Bucky, professor of mining and former executive officer (1946-52) of the School of Mines at Columbia University, died on August 8 at the age of 58. Born in Chicago, Prof. Bucky received a BS degree from the University of Illinois in 1921 and the degree of Engineer of Mines from Pennsylvania State College (now University) in 1926. After serving as an assistant professor at Penn State until 1929, Prof. Bucky joined the staff of Columbia University, where he remained until his death, having attained the rank of full professor in 1942. In 1932, he invented a centrifuge which