

remaining half of the companies interviewed did not report numerical shortages of research personnel, but many of them emphasized their need for better-qualified scientists and engineers.

On a nationwide basis, the Foundation stated, the survey findings clearly indicate that the demand for scientists and engineers for research and development programs exceeds the supply of qualified personnel in a wide range of fields—chemical, electrical, mechanical, and aeronautical engineering, chemistry, physics, metallurgy, mathematics, and a number of others. The demand for additional scientists and engineers extends to all levels of experience and training, although most company officials said they had a greater need for personnel with experience or advanced degrees than for new graduates with only the bachelor's degree. Lack of sufficient scientific and engineering personnel was reported, in many instances, to have hindered companies in carrying out going research programs. A sizable though smaller number of firms said they had been forced to curtail projected increases in their research and development activities. The need for "quality" in research personnel was strongly emphasized. Officials of many companies reiterated that requirements for research scientists and engineers cannot be met because well-qualified, well-trained people are difficult to find.

The study of scientific manpower shortages in industry is part of a national survey of research and development resources being made by the National Science Foundation as part of its fact-gathering activities in support of the development of national science policy. The survey includes, in addition to industrial research, coordinated studies of the research activities of colleges and universities, trade associations, commercial laboratories, nonprofit research institutions, foundations, and government agencies.

Societies

The Acoustical Society of America has announced the election of the following officers for 1955-56: president, Warren P. Mason (Bell Telephone Laboratories), president-elect, R. Bruce Lindsay (Brown University), and vice president, Hale J. Sabine (Celotex Corporation). New members of the Acoustical Society Council are W. A. Munson (Bell Telephone Laboratories) and Wayne Rudmose (Southern Methodist University). Wallace Waterfall and Herbert A. Erf were re-elected secretary and treasurer, respectively.

The (British) Institute of Physics, at its annual general meeting in May, elected the following officers: Sir John Cockcroft, director of Harwell, re-elected president; W. H. Taylor, vice president; and S. Whitehead and B. P. Dudding, re-elected honorary treasurer and secretary, respectively. M. R. Hopkins, J. M. A. Lenihan, and J. Taylor were elected "ordinary" members of the board.

The Health Physics Society is a new scientific organization whose formation was announced in June,

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during the conference on health physics held at Ohio State University. The following have been named as interim officers: Karl Z. Morgan (Oak Ridge National Laboratory), president; Fred Cowen (Brookhaven National Laboratory), vice president; and Elda E. Anderson (Oak Ridge National Laboratory), secretary-treasurer.

The Physics Club of Chicago has announced the election of its officers for 1955-56. They are: Richard F. Humphreys (Armour Research Foundation) president, Edward C. Thomas (Great Lakes Carbon Co.) vice president, Elvin L. Bussell (Welch Scientific Co.) secretary, and Eugene L. Perrine (Zonolite Co.) treasurer. Julius W. Breit (Zenith FM Station), Marcus W. Minkler (University of Illinois), and Marcel Schein (University of Chicago) were elected directors to serve during 1955-58.

The Physics Club of Philadelphia has elected J. Lloyd Bohn, chairman of the physics department at Temple University, as president for 1955-56. Mary L. Harbold, also at Temple, was elected secretary-treasurer.

UCLA Medical Reactor

A five-kilowatt nuclear reactor, designed specifically for medical research and therapy, is to be installed at the new Medical Center at the University of California at Los Angeles. North American Aviation's Nuclear Engineering and Manufacturing Division in Los Angeles has designed and will build the reactor, which is expected to be completed within one year. Dean Stafford L. Warren of the UCLA Medical School emphasized, however, that the instrument will not be available for clinical use until the entire calibration and testing procedure is completed, a project that will take at least two years after the reactor has been put in operation. The UCLA reactor will be employed eventually to provide selective beams of thermal neutrons and gamma rays for cancer therapy. It is also intended to serve as a source of radiation for the experimental sterilization and preservation of foods and drugs, and is expected to become an important producer of short-lived radioisotopes that can be supplied nearly at full strength to users of such isotopes in the West. The reactor facilities will be available to the Atomic Energy Commission's project at UCLA where classified and unclassified biomedical research is conducted.

Published

A new edition of *Neutron Cross Sections* (AECU-2040) has been prepared containing, in an addendum, data on heavy element cross sections presented at Geneva in August. The authors, D. J. Hughes and J. A. Harvey, have attempted to present the experimental data in a form "most useful to physicists in general as well as reactor specialists". The book, BNL 325, is for sale by the Government Printing Office, Washington 25, D. C., at \$3.50 a copy.