

placing physicists in many jobs because physicists are overspecialized and prefer to remain so. Meanwhile different companies are exploring different ways to avoid obsolescence in specialized technical and scientific personnel. Employers have many suggestions for universities. Principal among them is the recommendation that the physicist gain a broad education and become aware of practical problems that need solution.

Copies of the report (AIP Pub. No. R 224) are available from Back Numbers Section, AIP.

McElroy Reorganizes NSF, Which Will Have 4 Assistant Directors

Director William D. McElroy has reorganized the National Science Foundation to meet the requirement of the NSF Act of 1968. All existing activities will be apportioned among four assistant directors, who will be responsible for the general areas of institutional programs, education, research and national and international programs. McElroy has named acting directors to serve until President Nixon makes the four appointments. He also announced that Louis Levin will perform the functions of deputy director temporarily.

AIP Survey Will Study Jobs Held by Recent Physics PhD's

The American Institute of Physics Education and Manpower Division is surveying recent physics PhD's to determine how closely present employment matches job goals. A questionnaire, prompted by the recent concern about the physics job situation, is being sent to those physicists whose response to the graduate-student survey (PHYSICS TODAY, March 1969, page 53) indicated that they expected a PhD in the years 1967-69.

Susanne Ellis and Arnold Strassenburg who are conducting the survey, have chosen their questions with an eye to results from previous employment studies. Many respondents to previous surveys, for example, held temporary jobs, and AIP now expects to determine whether these jobs were accepted by choice or necessity.

Those physicists surveyed will be asked to detail their education, military service, present employment and job offers. Among specific facts re-

quested are ratio of job offers to applications, relation of present job to training, and number of positions held since PhD was received. The questionnaire was mailed in December.

U. of Penna. Compiles Catalog Of Extragalactic Variables

Photocopies of individual cards from a card catalog of optically variable galaxies and quasars are available from the catalog compiler, Benjamin S. P. Shen at the University of Pennsylvania. Observational data and references are listed for each of about 50 objects; the number is readily increasing. Shen asks authors to provide him with copies of relevant new publications. Details are available from the Department of Astronomy, University of Pennsylvania, Philadelphia, Pa. 19104.

Union Carbide, AEC Support Negro Technical Education

The Atomic Energy Commission is extending its cooperative education program at AEC facilities to six predominantly Negro colleges in Washington and the South. Each school will nominate six students, who will begin work the summer that they graduate from high school and then spend alternate quarters at school and at work. The jobs are provided by Union Carbide's Nuclear Division at the Oak Ridge National Laboratory, Oak Ridge Gaseous Diffusion Plant, and the Y-12 Plant at Oak Ridge.

International Group Aims at Long-Term Weather Forecasts

A committee of the National Research Council proposes US participation in the Global Atmospheric Research Program, a ten-year international effort to improve long-range (more than four- or five-day) weather forecasts. The report recommends large-scale and regional atmospheric studies, a Pacific test of a global weather-observing system and, to improve numerical models of the atmosphere, experiments on energy exchange between the atmosphere and its surroundings, such as the ocean.

X-Ray Emitting Electronic Tubes Ordered Off Market

The Environmental Control Administration has ordered off the market

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