ENGINEERS-SCIENTISTS

Broad-Based Activities in Missiles, Aircraft, Space Technology Now Drawing Alert Engineers to Republic Aviation

GUIDANCE SYSTEMS

—EE or Physics background in design and analysis of inertial navigation systems.

RECONNAISSANCE SYSTEMS

—MS, Physics. Application of optics and infra-red techniques.

OPERATIONAL ANALYSIS

- Armament systems (advanced bombers). BS with 4-5 years relative experience. Understand current armament principles and damage criteria.
- Reconnaissance & detection systems.
 MS. Requires extensive knowledge of probability and game theory.
- Reconnaissance and detection systems. MS with broad background missile or aircraft fields (electronics, vehicle performance, armaments, structures or applied mathematics).

THEORETICAL FLUID DYNAMICS

—AE or Physics, MS or PhD. To conduct basic research in fluid dynamics related to hypervelocities of flight in rarefied atmosphere at orbital speeds. Requires strong aeronautics, understanding kinetic theory of gases applied to field, Reynolds number and dissociation effects.

Please send resume in complete confidence, to:

MR. GEORGE R. HICKMAN, Engineering Employment Manager



Farmingdale, Long Island, New York

Japan

Tohoku University, Sendai, or Osaka University. Experimentalists preferred for these lectureships.

One research grant at Kyoto University, Research Institute for Fundamental Physics and one at Nagoya University for a specialist in process design and applied kinetics.

Hiroshima University. A lectureship in scientific and technical education for teacher-training program.

Norway

A junior scholar in either nuclear energy research, biophysics, or physics and a specialist in servomechanics.

Nigeria

University College, Ibadan, Department of Physics is interested in scholar with interest in ionospheric studies.

Applications must be postmarked no later than October 1, 1958, and should be mailed to the Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Avenue, Washington 25, D. C.

In addition to the Fulbright awards listed above. about sixty university lectureships are offered annually under the Smith-Mundt Act, usually in countries not included in the Fulbright program. The lectureships are established only at the request of foreign universities and when there are dollar funds available to support them. Since the Conference Board Committee receives such requests intermittently, often on short notice, open competitions to fill them are impractical. Instead, the Committee has established a register of scholars who expect to be available in the future for overseas assignments. The register is the basic resource file of candidates for lectureships under the Smith-Mundt Act and it is also consulted for candidates for Fulbright awards not filled through the open competition. Those interested in such assignments are invited to file data sheets with the Committee at the address given above. Data sheets are provided by the Committee upon request.

Honors and Awards

Winners of the awards for the best essays on gravity have been announced by the Gravity Research Foundation of New Boston, N. H. The first award of \$1000 was given to Giuseppe Cocconi and Edwin Salpeter, professors of physics and nuclear studies at Cornell University, for a paper on "A Search for Anisotropy of Inertia". The second award of \$300 went to Quentin A. Kerns of the University of California Radiation Laboratory for his essay entitled "A Proposed Laboratory Measurement of the Velocity of Propagation of Gravity". The remaining awards were made to Joseph Weber of the University of Maryland, Winston H. Bostick of Stevens Institute of Technology, and Fritz Zwicky of the Mount Wilson and Palomar Observatories.

The Biennial Award of the Acoustical Society of America was presented on May 8 to Bruce P. Bogert of the Bell Telephone Laboratories at Murray Hill, N. J.,



Bruce P. Bogert, the most recent recipient of the Biennial Award of the Acoustical Society of America, has been a member of the technical staff of the Bell Telephone Laboratories at Murray Hill, N. J., since 1948. He received a cash prize of \$100, a certificate from the Society, and a complete bound set of the Journal of the Acoustical Society of America.

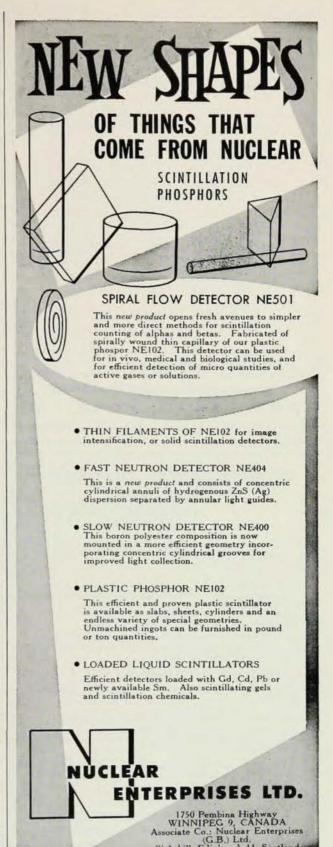
during a banquet held as part of the Society's spring meeting in Washington, D. C. The award is presented during the spring of even-numbered years to "a Member or Fellow of the Society who is under 35 years of age and who, during a period of two or more years immediately preceding the award, has been active in the affairs of the Society and has contributed substantially through published papers, to the advancement of theoretical and/or applied acoustics". Dr. Bogert's most recent investigations have been in the fields of physical acoustics and speech transmission. He is now in charge of a transmission research group assigned to long-range studies of new telephone instruments which will be suitable for high-speed switching systems of the future.

Publications

A quarterly review called Cybernetica was inaugurated in May by the International Association for Cybernetics. Each approximately 70-page issue will include articles related to the field of cybernetics (which will be either in English or French) and news of the activities of the Association. Subscriptions have been fixed at 300 Belgium francs (\$6) per year and may be obtained from the International Association for Cybernetics, 13 rue Basse Marcelle, Namur, Belgium.

A summary of the properties of intense gamma-ray (bremsstrahlung) beams produced with linear electron accelerators has been offered free of charge to those interested by Applied Radiation Corp., 2404 North Main Street, Walnut Creek, Calif., a firm specializing in the manufacture of linear accelerators. The document (ARCO Report AM-100) includes data on radiation lengths, forward intensity, angular distribution, total conversion efficiency, spectral shape, and shielding calculations.

A list of all scientific papers to be presented at the 1958 International Conference on the Peaceful Uses of Atomic Energy to be held September 1–13 in Geneva,



Sighthill, Edinburgh 11, Scotland