

RESEARCH PHYSICISTS AND FLUID DYNAMICISTS

Applied Physics Laboratory of The Johns Hopkins University Has Positions Available For:

RESEARCH IN FLUID DYNAMICS

The work now being carried on includes theoretical and experimental studies in hypersonic flow, turbulence, shock waves and some related fields of Physics and Applied Mathematics. Senior and Associate Research positions are now available in these fields.

- Laboratories located in suburban Washington, D. C.
- Arrangements for advanced study in graduate schools can be made.
- Liberal leave benefits, retirement program, etc.
- Moving and travel expenses will be paid for selected applicants.

Please Submit Your Resume To:

JOHN J. LONG
Personnel Representative

APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY

8621 Georgia Avenue

Silver Spring

Maryland



*Physicists
and
Electronic Engineers*

You can work in the stimulating atmosphere of an applied research and development laboratory where ideas are important, initiative is encouraged and associates are competent. The project areas listed below are typical of our extensive electronics interest; a complete list would include almost every branch of modern electronics. We are interested in men with high-level training, imagination and potential—regardless of their specialty.

• COMPUTER DESIGN • ELECTRONIC
INSTRUMENTATION FOR APPLIED
PHYSICS • MISSILE GUIDANCE • MICRO-
WAVE APPLICATIONS • TELEMETER-
ING • COMPLEX CONTROL SYSTEMS
• RADIO • RADAR

If you are interested in working at your maximum professional level in an organization that combines the most desirable elements of academic and industrial research and development, we invite you to communicate with our Employment Manager.

CORNELL AERONAUTICAL LABORATORY, INC.
BUFFALO NEW YORK

We hear that..

Hannes Alfvén, professor and director of the Laboratory of Electronics of the Royal Institute of Technology in Stockholm, Sweden, is a visiting professor in the physics department and the Institute for Fluid Dynamics and Applied Mathematics at the University of Maryland for the academic year 1953-54. The University has also announced the following physics department appointments: assistant professors, Roy S. Anderson and Richard A. Ferrell; associate professor, S. Fred Singer; professor and head of physics, John S. Toll; and research associates, James Anderson, Melville Green, and William Visscher.

J. H. Barrett, F. R. Crownfield, Jr., and W. D. Whitehead, Jr., have joined the faculty of the School of Engineering at North Carolina State College. Drs. Barrett and Whitehead will serve as assistant professors in physics, and Dr. Crownfield as an instructor in physics.

E. T. Benedikt has accepted a position as chief of Guidance, Control and Stability with the Weapon System Division of Vard Inc., Pasadena. Dr. Benedikt was formerly associated with Consolidated Vultee Aircraft, Inc.

C. Sharp Cook, formerly assistant professor of physics at Washington University (St. Louis), has been appointed head of the nuclear radiation branch at the U. S. Naval Radiological Defense Laboratory in San Francisco. The Laboratory has also announced that William B. Plum has been named to head the thermal radiation branch.

J. Frank Coneybear, former head of the Nepa Project's experimental physics section and later of the nuclear technology group at the Bendix Aviation Research Laboratories in Detroit, now heads ASTRA, a newly organized research and development firm at Milford, Connecticut.

Lester M. Field of Stanford University has been appointed professor of electrical engineering at California Institute of Technology. On leave from Stanford for the past year, Professor Field has set up an electron tube and microwave laboratory at Caltech, continuing his research on microwave amplification and interaction processes.

Paul D. Foote and E. A. Eckhardt, executive vice-president and vice-president, respectively, of the Gulf Research & Development Company, announced their retirement from active executive work on December

31st. Dr. Foote, who had been with Gulf since 1927, is a past president of the American Physical Society (1933) and a past secretary of the Optical Society of America (1921-32). Dr. Eckhardt, formerly a physicist at the National Bureau of Standards, joined the Gulf organization in 1928. He is a past president of the Society of Exploration Geophysicists (1939).

Recent additions to the staff of the Oak Ridge Atomic Energy installations operated by Carbide and Carbon Corporation are: **Tom B. Fowler**, from West Texas State College; **James A. Gillcrist**, New York Telephone Company; and **David K. Trubey**, Michigan State College.

Alfred N. Goldsmith, editor of the Institute of Radio Engineers, has been awarded that society's Founders Award for "outstanding contributions . . . which have greatly increased the impact of electronics on the public welfare".

Reginald T. Harling, formerly professor of physics at St. Lawrence University, has accepted an appointment as professor of mathematics at the U. S. A. F. Institute of Technology, at Wright-Patterson Air Force Base, Ohio, where he will be especially concerned with instruction in the operation of electronic computing machines.

Malcolm Hulst has been named assistant professor of science in the division of physics at Ball State Teachers College, Muncie, Indiana, replacing **Harry Howick**, who has retired and is now professor emeritus of physics. In the same department, **Arnim Hummel** has been promoted from associate professor to professor of physics. Dr. Hummel has also been made a Fellow of the Indiana Academy of Science at the recent annual state meeting held at Earlham College, Richmond, Indiana.

C. H. Long, formerly a member of the physics staff at Miami University (Oxford, Ohio), has been appointed associate professor of physics at Rose Polytechnic Institute, Terre Haute, Indiana.

Maurice M. Shapiro, head of the cosmic-ray branch in the Naval Research Laboratory, has been named superintendent of the nucleonics division of the Laboratory, succeeding **F. N. D. Kurie** who has become technical director of the U. S. Navy Electronics Laboratory in San Diego. The nucleonics division is one of twelve scientific divisions at the Laboratory and is concerned with fundamental and applied research in nuclear physics. Dr. Shapiro will continue to be in charge of cosmic-ray research.

Gerald Westheimer, formerly of Ohio State University, has been named professor of physiological optics and director of the Vision Laboratory at the University of Houston, Texas.

Francis L. Yost has been appointed professor of physics and head of the department of physics at the University of Kentucky. Formerly, Dr. Yost was chief of the weapons analysis division of the U. S. Naval Ordnance Laboratory at White Oak, Maryland.



FREE on request

268-PAGE 1954

**ELECTRONIC
SUPPLY
BUYING GUIDE**

SEND FOR IT

Simplify your purchasing—send all your orders to ALLIED—the dependable, complete source for *all* Electronic supplies. Look to ALLIED for quick delivery from the world's largest stocks of:

- *Special-Purpose Electron Tubes*
- *Lab Test and Measurement Instruments*
- *Audio Amplifiers and Accessories*
- *Electronic Parts and Components*

Let our expert supply service save you time, effort and money. Send today for your FREE copy of the 1954 ALLIED catalog—the only *complete* up-to-date Buying Guide to Electronic Supplies.

ALLIED RADIO

Dept. 62-B-4, 100 N. Western Ave., Chicago 80, Ill.

PHYSICISTS

The APPLIED PHYSICS LABORATORY OF THE JOHNS HOPKINS UNIVERSITY offers an exceptional opportunity for professional advancement in a well-established laboratory with a reputation for the encouragement of individual responsibility and self-direction. Our program of

GUIDED MISSILE RESEARCH AND DEVELOPMENT

provides such an opportunity for men qualified in:

**TRANSISTOR CIRCUIT DESIGN
MICROWAVE NOISE STUDIES
ELECTRONIC DESIGN AND ANALYSIS OF CONTROL SYSTEMS
RESEARCH IN FLUID DYNAMICS AND IN SOLID STATE PHYSICS
MISSILE SYSTEMS DEVELOPMENT
FLIGHT TEST PROPOSALS AND DATA ANALYSIS**

Please send your resume to

JOHN J. LONG

**APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY**

**8621 Georgia Avenue
Silver Spring, Maryland**