

SOLID-STATE PHYSICIST OR PHYSICAL METALLURGIST to lead long-term research primarily on metals, including such subjects as diffusion in solids, anelasticity, mechanical and thermal behavior at elevated temperatures, and behavior of single crystals. University operated laboratory, Los Angeles area.

Send summary of qualifications to:

Caltech
JET PROPULSION LABORATORY
4800 Oak Grove Drive
Pasadena 3, California

POSITION OPEN

PHYSICIST

SPECTROSCOPY, SPECTROPHOTOMETRY AND COLORIMETRY

We are seeking a man, BS, MS or PhD, at group leader level for the Physics Department of our Central Research Laboratories in Mid-town New York. He should have 5 to 10 years experience in optical instrumentation as applied to chemical analysis and spectrophotometry. He should also have had some supervisory experience with a small group of people. His responsibilities would entail the supervision of a research program under the Department Director.

In replying, please submit details concerning your present employment, educational and industrial background and salary requirements. Box 255A, Physics Today, 57 East 55 St., New York 22, N. Y.

POSITION WANTED

OPTICAL PHYSICIST — Twenty years experience in the research, design and development of optical instruments. Recent papers and patents. Employed, desires change. Box 255, Physics Today, 57 East 55 St., New York 22, N. Y.

FOR SALE

For Sale: Physical Review, 1929-June 1950, Vol. 33-78, \$300; Review of Scientific Instruments, 1933-50, \$90; Quarterly Trans. of the A.I.E.E., 1925-49, \$55; unbound. Pluto Products Co., Box 1402, Terre Haute, Indiana.

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the four-point system of measuring resistivities of semiconductors by A. Stevenson, Minneapolis Honeywell; a modification of the Korrington method for energy band calculations in crystals by R. J. Harrison, Battelle Memorial Institute; an interesting discussion of methods and techniques for measuring physical properties of microscopic specimens by W. C. Shaw, Midwest Research Institute; and a description of some electrical measurements on grain boundaries in germanium by A. G. Tweet, General Electric Company.

The program included a luncheon with an after-meeting talk by Edward P. Ney of the University of Minnesota physics department. Professor Ney discussed the aims and successes of high-altitude cosmic-ray research with special emphasis on the balloon method used at Minnesota. Following the formal presentation of papers, extensive visits were organized to several research activities in the departments of physics and electrical engineering of the University.

Arrangements for the meeting were in the hands of A. J. Dekker and he and his wife entertained at a very pleasant gathering on the evening preceding the conference. Present plans are to hold next year's meeting of the group at the University of Missouri, Columbia, Missouri.

W. Grattidge

G-E Research Laboratory

Fermi Memorial Meetings

A public meeting in honor and memory of Enrico Fermi, organized in the form of a symposium by the Tata Institute for Fundamental Research, was held on December 14, 1954, in Bombay, India. The program included the following speakers: P. A. M. Dirac (The Development of Fermi's Statistical Theory and of the Theory of β -Decay); D. D. Kosambi (Fermi's Theorem in Differential Geometry); K. S. Singwi (Slow Neutron Reactions and Reactor Development); B. Peters (Fermi's Theory of the Origin of Cosmic Rays); and H. J. Bhabha (Fermi's Theory of Meson Production).

At another public meeting held on January 5th at Los Alamos, New Mexico, a lecture entitled "Enrico Fermi and Modern Physics" was given by Hans A. Bethe, professor of physics at Cornell University.

Physics Education

The Central Pennsylvania Section of the American Association of Physics Teachers will hold its second annual spring meeting at Wilson College, Chambersburg, Pennsylvania, April 1-2. Tentative plans for the program provide for contributed papers on Friday afternoon, a dinner meeting Friday evening, and evening address by some outstanding figure in the field of physics, a short business meeting on Saturday morning at which time officers for the following year will be elected, and a panel discussion on the theme of "The Joint Responsibility of High Schools, Colleges, and Industry to Encourage Students to Undertake Careers

Physics". Requests for additional information should be directed to the Section's secretary-treasurer, Robert A. Boyer, Muhlenberg College, Allentown, Pa.

Western Computer Conference

Functions and techniques in analog and digital computers will be the theme of the Joint Western Computer Conference and Exhibit to be held March 1-3 at the Statler Hotel in Los Angeles. The conference is sponsored by the Institute of Radio Engineers, the American Institute of Electrical Engineers, and the Association for Computing Machinery. The program will cover descriptions of systems and techniques, methods of matching digital tapes and cards, language and communication problems between machines, etc. In addition to the technical sessions and the exhibit of computing equipment, there will be field trips to local electronic firms, a cocktail party, and luncheons. The pre-registration fee is \$2.50. Those interested should write to William Gunning, Conference Secretary, International Telemetering Corp., 2000 Stoner Avenue, Los Angeles 25, California.

Molecular Structure

This year's Symposium on Molecular Structure and Spectroscopy will be held June 13-17 at Ohio State University. The program will include discussions on the interpretation of molecular spectroscopic data and on methods of obtaining such data. There will also be sessions devoted to those phases of spectroscopy of current interest. A dormitory will be available for persons who wish to reside on the campus during the meeting. For further information, or for a copy of the program when it becomes available, write to Professor H. H. Nielsen, Department of Physics and Astronomy, The Ohio State University, Columbus 10, Ohio.

Engineering Education

The annual meeting of the American Society for Engineering Education will be held June 20-24 at the Pennsylvania State University and will include some 75 sessions dealing with a wide variety of subjects (including physics) which bear on engineering education. Two ASEE committees will present special reports during the meeting. One will concern the objectives and goals of engineering education, with emphasis on changes needed to keep it abreast of the advancing frontiers of science and technology; the second report will deal with the teaching of the humanities, social sciences, and business studies in the engineering curriculum—an area of great importance in broadening the outlook and giving a cultural background to the engineer. One of several sessions to be held will be on methods of interesting high school students in engineering as a career. For further information, write to ASEE Secretary A. B. Bronwell, Northwestern University, Evanston, Illinois.

STYLE MANUAL

AN invaluable aid in the preparation of scientific articles. Prepared by the Publication Board of the American Institute of Physics, the manual will greatly assist authors to expedite the processing of their manuscripts. Gives information on Special Characters and Signs, Presentation of Mathematical Expressions, Preparation of Figures, Approved Abbreviations, etc. Price \$1.00 per copy. Quantity discounts available. Address orders to: PUBLICATION MANAGER, AMERICAN INSTITUTE OF PHYSICS, 57 East 55 St., New York 22, N. Y.

POSITIONS OPEN

PHYSICISTS—M.S. or Ph.D. Senior physicists with excellent grounding in fundamentals of both analytical and laboratory research and development are needed for new activities in nuclear physics, optics and acoustics. Men with versatility and leadership ability will be offered the opportunity to develop research programs along lines of their own experience and interest within the wide scope of activities possible in an independent organization. Write S. J. Keane, Physics Department, Southwest Research Institute, 8500 Culebra Road, San Antonio, Texas.

POSITION OPEN

Opportunity for
EXPERIMENTAL PHYSICIST
or

PHYSICAL CHEMIST
In the development of
ATOMIC BATTERIES

Send applications to Chief Engineer
Burgess Battery Company
Freeport, Illinois

POSITIONS OPEN

PHYSICIST wanted for position on our research and development staff. Man with broad scientific interests and well-rounded experience in applied physics is preferred to a specialist in one branch of physics or engineering. P.R.A. engages in unusually interesting and challenging projects of consultation, research and development for private industry and the Government. All applications received in confidence; send full resume; U. S. citizenship required. **PAUL ROSENBERG ASSOCIATES**, 100 Stevens Ave., Mount Vernon, New York.