

EXHIBIT

at the Combined Winter Meeting of the
AMERICAN PHYSICAL SOCIETY

and

AMERICAN ASSOCIATION
OF PHYSICS TEACHERS

January 28-31, 1959

Hotel New Yorker, N.Y.C.

The Meeting will feature an exhibit of research instruments, laboratory apparatus, and technical books by the leading manufacturers and publishers. The following companies have reserved space.

Academic Press
Addison-Wesley
American Tradair
Atomic Associates
Baird-Atomic
Beckman & Whitley
Brinkman Instruments
Cambridge Univ. Press
Consolidated Electrodynamics
Rochester Division
Consultants Bureau
Central Scientific Co.
Ealing Corp.
Gaertner Scientific
General Electric
General Radio
Keithley Instruments
J. Klinger (Leybolt)
Laboratory For Science
Gerard G. Leeds Co.
Madison Associates
McGraw-Hill
Pacific Electro-Nuclear
Pergamon Press
Prentice Hall
Technical Measurement
Vacuum Electronic (Veeco)
Vacuum Instrument
D. Van Nostrand
W. M. Welch Co.
John Wiley and Sons

In addition to the commercial exhibit, there will be an exhibition of apparatus and instruments made by college physics teachers for use in their laboratories and lecture rooms. The competition is sponsored by the Committee on Apparatus for Educational Institutions of the American Association of Physics Teachers and is supported by a grant from the W. M. Welch Company, Chicago, Illinois. Prizes will be awarded for the best displays.

Atomic Mechanisms of Fracture

PAPERS covering theoretical aspects of fracture, cleavage, crystalline and noncrystalline fracture, fatigue and ductile fracture, and high-temperature fracture will be presented at a Seminar on the Atomic Mechanisms of Fracture to be held April 12-14 in Cambridge, Mass. The conference is under the joint sponsorship of the National Science Foundation, the Office of Naval Research, the Air Force Office of Scientific Research, and the National Academy of Sciences—National Research Council. Further information is available from the chairman, Dr. B. L. Averbach, or the secretary, Dr. D. K. Felbeck, Conference on Fracture, National Academy of Sciences—National Research Council, 2101 Constitution Ave., Washington 25, D. C.

Mass Spectrometry

THE Seventh Meeting on Mass Spectrometry will be held at the Statler-Hilton Hotel in Los Angeles during the week of May 17 and will be under the sponsorship of the American Society for Testing Materials Committee E-14 on Mass Spectrometry. Contributed papers on all phases of mass spectrometry are invited and the program committee is making special efforts to arrange symposia of theoretical and analytical interest.

As in previous years, authors will be free to publish in journals of their choice. The deadline for abstracts of papers is February 1 and they should be sent to A. G. Sharkey, Jr., US Bureau of Mines, 4800 Forbes Avenue, Pittsburgh 13, Pa., from whom further information on the meeting is available.

Nuclear Propulsion

PLANS are underway to schedule a nuclear propulsion session during the semiannual meeting of the American Rocket Society which is to be held June 8-11 in San Diego, Calif. Interested persons are invited to submit papers to Dr. Stan Gunn, Rocketdyne, 6633 Canoga Park Avenue, Canoga Park, Calif., before February 1.

Information Processing

THE First International Conference on Information Processing will be comprised of technical sessions, symposia, oral surveys on the status of information processing in the participating countries, and an exhibition of data processing equipment and will be held June 13-22 in the new Unesco Palace in Paris. The conference is being organized by Unesco with the assistance of representatives from France, Sweden, Italy, Belgium, Russia, West Germany, The Netherlands, the United Kingdom, Japan, and the US. A US Committee representing the Institute of Radio Engineers, the Association for Computing Machinery, and the American Institute of Electrical Engineers will coordinate American participation.

The technical program will cover methods of digital

New programs at
RAMO-WOOLDRIDGE
 have created openings for
ENGINEERS and PHYSICISTS
 for work on
INFRARED SEARCH and TRACKING SYSTEMS

ELECTRONIC ENGINEERS

Applicants should hold a B.S. or advanced degree with a strong mathematical background and experience in circuit or servomechanism analysis.

PHYSICISTS

Applicants must hold a B.S. or advanced degree with experience in physical optics, electronics, and mathematics. A background that includes design, development, or test of infrared military instrumentation is desirable.

A few openings exist for those who wish to enter the infrared field and who have appropriate training but lack specific infrared experience.

Please address inquiries to Mr. Paul Fryar at

RAMO-WOOLDRIDGE
P. O. Box 90534, Airport Station
Los Angeles 45, California

A DIVISION OF THOMPSON RAMO WOOLDRIDGE INC.

EXCEPTIONAL OPPORTUNITY

A new group is being formed within an established Research and Development division of a large metals concern, to carry on Research, Development, Design and Customer Service activities in the industrial use of Abrasives for Grinding and Polishing. While specific experience in this field would be desirable, it is not a requirement.

The following positions are open:

PHYSICIST or RESEARCH METALLURGIST

PH.D. or equivalent. Training, and/or experience in Surface Physics, Cutting, Wear, Comminution, Solid State Theory.

**METALLURGISTS,
PHYSICAL**

B.S. or M.S. Background in Powder Metallurgy or in Cutting and Forming of Metals.

**MECHANICAL
ENGINEER,
MACHINE DESIGN**

B.S. or M.S. Knowledge of Production Machinery, Metal Grinding.

CHEMICAL ENGINEER

B.S. or M.S. Pilot Plant experience.

Age to 40. Salary dependent on qualifications. Liberal employee benefits. Location, Northern New Jersey. Write stating full particulars to Box 159-A, PT.

*challenging
position in*

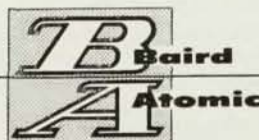
ELECTRO-OPTICS
for Qualified Man or Woman

to do research and development in optics and electro-optical devices. B.S. or M.S. in Physics, Optics, Electronics, or related field required.

This is an excellent opportunity to join a growing company with a national reputation for outstanding research and development.

For further information, send resume of qualifications and experience to:

BAIRD-ATOMIC, INC.



Attn: Technical
Placement Director

33 University Road
Cambridge 38, Mass.

U. S. Citizenship required.

POSITIONS OPEN

Science and Engineering at Robert College of Istanbul

Opportunities for qualified men in mathematics and physics, interested in combining teaching and research with opportunity to live and travel in a vital part of the world: Strengthening staff, modernizing undergraduate curricula, beginning graduate program, constructing new science and engineering building, preparing young men for industrial and technological development of Turkey and the Middle East. Challenging work with far-reaching possibilities.

Address inquiries to Dr. Duncan S. Ballantine, President, or Dean Howard P. Hall of the College of Engineering, at Robert College, Bebek P.K. 8, Istanbul, Turkey, with copy to Near East College Association, 40 Worth Street, New York 13, New York.

MS or PhD

IN PHYSICS, METALLURGY OR PHYSICAL CHEMISTRY

to conduct fundamental research on material properties and boundary layer phenomena at very high temperatures. Experience desirable but not absolutely necessary.

Sandia Corporation is engaged in research and development of nuclear weapons for the AEC, and is located in Albuquerque, N. M.—a modern city of about 225,000, famous for its excellent climate and its recreational and cultural attractions. Winters are mild, summer nights are cool, and there's plenty of year-around sunshine. Sandia's liberal employee benefits include generous vacations, retirement and insurance plans, and a graduate education assistance program. Paid relocation allowance. Send résumé to *Staff Employment*, Section 559.



POSITION WANTED

Nuclear Physicist, B.Sc., M.Sc., Ph.D., seeking position in research and/or teaching. Non U.S. or British citizen. Physics Today, Box 159, 335 East 45 Street, New York 17, N.Y.

FOR SALE

THERMO-ELECTRONICS Successor to Thermo-Electricity

Change heat to electricity DIRECTLY—no acids, liquids, chemicals, moving parts or sunlight! Build or buy a thermo-electronic battery. Mail quarter today for information and sample thermo-electronic alloy.

HERMON E. COTTER
Dept. R
15766 Blackstone, Detroit 23, Mich.

computing, logical design of digital computers, common symbolic language for digital computers, automatic translation of languages, collection, storage, and retrieval of information, and pattern recognition and machine learning. Simultaneous oral translation of the papers will be made into English, French, Russian, Spanish, and German. Visits to computer facilities located in the Paris area are also on the agenda.

Suggestions for symposia topics and requests for official registration forms and exhibit information should be addressed to the US Committee for the International Conference on Information Processing, Box 4999, Washington 8, D. C.

Carbon Conference

SEVERAL sessions of contributed papers on the physics of carbon surfaces; electronic, thermal and mechanical, and high-temperature properties of carbon; physical absorption and surface complexes; chemisorption and reactivity; graphitization and structure; friction and wear of surfaces; and carbon processing will comprise the program of the Fourth Biennial Conference on Carbon. A feature of the meeting will be a symposium on "The Physics and Chemistry of Carbon Surfaces". The conference will be held June 15-19 in Butler Auditorium, Capen Hall, University of Buffalo under the cosponsorship of the Carbon Committee and the University of Buffalo.

Those wishing to present papers should contact the chairman of the Program Committee, G. J. Young, Alfred University, Alfred, N. Y., as soon as possible. The deadline for abstracts is March 1 and these, as well as requests for registration and reservation blanks and further information, should be sent to Carbon Conference, University of Buffalo, Buffalo 14, N. Y.

Low Temperatures

THE 10th International Congress of Refrigeration will be held August 19-26 in Copenhagen under the auspices of the International Institute of Refrigeration and the patronage of King Frederik IX of Denmark. S. Mansted, chairman of the Danish Association of Refrigeration, will head the organizing committee for the congress. A special committee (A. Van Itterbeek, L. De Greve, H. Myncke, and G. J. van den Berg) is in charge of the program of the first Commission, which will deal with the physics and thermodynamics of low temperatures and the use of very low temperatures and rare gases in industry. The meeting as a whole will be concerned with equations of state, fluids under high pressure, transport phenomena, mechanical properties of metals, thermometry, industrial problems involving liquefaction and distillation of gases, and low-temperature applications in nuclear physics. Titles of contributed papers should be submitted to Prof. Dr. A. Van Itterbeek, Naamsestraat 73, Louvain, Belgium, before February 1. Abstracts (3 copies, in both English and French if possible) must reach him before April 15, and the deadline for complete papers is July 15.