

# Research

Schlumberger Well Surveying Corporation maintains a program of long-range industrial research projects at its Research Laboratory in Ridgefield, Connecticut.

The program includes such scientific fields as electronic systems, data processing, sonics, nuclear magnetic resonance, electromagnetic theory, nuclear physics, wave propagation, physical chemistry, and fluid flow in porous media.

In order to implement our diversified program we have openings for two professional staff members with the following qualifications:

## *physicist for acoustics*

This position requires a Physicist with an advanced degree and experience in acoustics. The research program is concerned with the fundamental theory and experiments with sound propagation in fluid-filled rocks as well as signal processing. Theoretical and experimental experience in elastic wave propagation in liquid and solid material would be valuable.

## *research analyst*

This position requires a background in Mathematics to analyze the performance of systems and equipment by using computers. Applicant should have at least three years' experience in operations analysis and programming, including analysis of the results of geophysical measurements.

Our Laboratory is located in a small Connecticut town about 50 miles northeast of New York City. The facilities at the Laboratory are extensive and modern. Working conditions and fringe benefits are consistent with the highest industrial standards.

MR. J. J. McNAMARA

**SCHLUMBERGER WELL  
SURVEYING CORPORATION**

P. O. Box 307

Ridgefield, Connecticut

density matrixes, nonbonded atom-atom interactions, hyperfine and external field interactions (theory and small molecules; larger systems), and experimental areas inviting theoretical work.

Additional conferences at Tilton will be held on Basic Chemistry of Aging (June 11-15), Chemistry of Carbohydrates (June 18-22), Friction, Lubrication, and Wear (June 25-29), and Organic Coatings (July 16-20).

Attendance at each conference will be limited to about 100 persons. Requests for application forms and other correspondence should be sent to W. G. Parks, Director, Gordon Research Conferences, University of Rhode Island, Kingston, R. I. After June 11, Dr. Parks can be reached at Colby Junior College, New London, N. H.

## *Nuclear Physics*

The second annual University of Michigan conference on nuclear physics will be held June 11-16 at Boyne Mt. Lodge, Boyne Falls, Mich. As was the case last year, this six-day meeting is sponsored by the National Science Foundation and will be devoted to selected topics in nuclear physics as developed by six invited speakers. The lecture program includes papers by N. R. Corngold on neutron thermalization, L. L. Foldy on electron-neutron interaction, S. N. Gupta on theory and application of meson-baryon interactions, A. C. Kolb on experiments with high-temperature plasma, Albert Simon on plasma and thermonuclear theory, and Roman Zelazny on application of singular eigenfunction expansions to problems in plasma oscillations. Travel expense funds may be available to support some participants who could not otherwise attend.

Interested persons should contact the conference secretary, Prof. John S. King, Pheonix Memorial Laboratory, University of Michigan, Ann Arbor, Mich.

## *Physics Teachers*

For its 1962 summer meeting, June 26-28, the American Association of Physics Teachers will be the guest of Carleton College in Northfield, Minn., where sessions will be held in Carleton's new Olin Hall of Science. In addition to the program of contributed and invited papers, a joint session will be held on the 28th with the Commission on College Physics, which is planning to conduct a review conference at St. Olaf College in Northfield during the last part of the week.

Requests for additional information concerning the AAPT meeting should be sent to the Association's secretary, Prof. Ralph P. Winch, Williams College, Williamstown, Mass.

## *High-Energy Physics*

Theoretical problems in high-energy physics, including those arising in and above the highest energy ranges attainable with existing particle accelerators,



The new Sperry Rand Research Center in Sudbury, Massachusetts is seeking Ph.D.'s with an interest in doing publishable basic work in the fields of:

- Communications Theory & Techniques
- Signal Processing
- Propagation Studies
- Coding Theory
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## COMMUNICATIONS

Our new laboratory located 25 miles west of Boston offers a basic research environment with maximum freedom to pursue fundamental ideas.

Please direct your resume to:

Mr. Frederick M. Swope, Jr.

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## *The Avco Everett Research Laboratory*

The Avco-Everett Research Laboratory was the first industrial research laboratory to engage in the study of magnetohydrodynamics (MHD). More than five years ago the Laboratory identified two major areas for practical application—MHD electric power generation and MHD space flight. Work continues in these areas and also in theoretical MHD research.

The Laboratory also performs theoretical and experimental research in aerophysics. A major contribution has been the integration of the physics of dissociation, recombination and radiation to the more classical approach to hypersonic aerodynamics.

If you have a graduate degree and are interested in working in a technically stimulating environment with excellent facilities and experimental support, write or send brief resume to:

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will be discussed at a seminar on theoretical physics which will be organized in Trieste this summer by the International Atomic Energy Agency. The dates, July 16 to August 25, have been chosen to encourage the participation of scientists attending the High Energy Physics Conference to be sponsored July 4 to 11 in Geneva by CERN, and it is anticipated that many of the topics included in the CERN program will be considered in further detail during the seminar at Trieste.

Advanced lecture series and seminars are being tentatively planned for the following topics: (1) Elementary Particle Theory (possible higher symmetries, form factors, theory of resonances, use of unitary condition and double dispersion relations in strong interactions); and (2) Physics at High Energies (theories of collisions at high energies, high-energy limit theorems, electromagnetism at high energies, weak interactions at high energies).

For further details, contact the International Atomic Energy Agency, Room 2265, United Nations Headquarters, New York 17, N. Y.

### Combustion

The ninth International Symposium on Combustion will meet August 27 through September 1 at Cornell University under the auspices of the Combustion Institute. The program will consist of two series of invited papers and subsequent discussions (on detonations and fundamental flame processes), three colloquia (on modelling principles, chemical reactions and phase changes in supersonic flow, and reciprocating-engine combustion research), and ten sessions of contributed papers dealing with laminar and turbulent gas flames, high-temperature spectroscopy, reaction kinetics and mechanisms, hydrogen-oxygen reaction, detonation and transition to detonation, combustion involving solids, and combustion instability. The proceedings will be published by Academic Press Inc., New York.

For further information, write to Combustion Symposium Office, Upson Hall, Sibley School of Mechanical Engineering, Cornell University, Ithaca, N. Y.

### Low-Temperature Physics

The eighth International Conference on Low Temperature Physics will be held September 16-22 at Queen Mary College in London, under the sponsorship of the International Union of Pure and Applied Physics. Sessions will deal with specific subject areas, and each will be introduced by a "keynote" address by an invited speaker. Relevant contributed papers, reprinted and distributed to all registrants prior to the conference, will then be read by title only, and discussed under a working chairman. Formal parallel sessions will not be held, but there will be ample opportunity for informal discussions and ad hoc meetings.

The main themes of the conference will be helium-3;