
POSITIONS OPEN

Central Research Laboratories SPEER CARBON COMPANY Niagara Falls, New York

has opening for advanced scientists in two research groups.

Physicist or Physical Chemist

Ph.D. with 3 to 8 years' industrial experience. Background desirable, includes high temperature solid state studies, metal carbides, carbon and graphite, refractories, atomic energy. Supervisory experience desirable.

Physicist

B.S. or M.S. with 2 to 6 years' laboratory experience to participate in a long-range research program on electronic components.

The programs are applied research in nature not based on government contract.

Interested persons are invited to submit a complete resumé and salary history to:

**Manager of Research
Speer Carbon Company
Packard Road & 47th St.
Niagara Falls, New York**

POSITIONS OPEN

OPENINGS IN THEORETICAL PHYSICS

Associate Professor. Experience in theory of nuclear reactions or related fields.

Assistant Professor or Lecturer. One year appointment to replace member of staff on leave. Ph.D. preferred but not essential. Department of Mathematical Physics, University of Manitoba, Winnipeg 9, Manitoba.

POSITION OPEN

Chairman Physics Department in liberal arts, church-related college with unusual tradition and record for training scientists. High salary offered. Research possible, including nuclear study at nearby industrial site. Write: Dean Daryl E. Williams, DOANE COLLEGE, Crete, Nebraska.

POSITION OPEN

Faculty Position. Teaching undergraduate Physics in Church Related Liberal Arts College. Ph.D. or equivalent required. Salary for the academic year \$5500-\$8000 depending on training and experience. Housing available at reasonable rent. S. J. Vellenga, *Chairman*, Division of Natural Science, Muskingum College, New Concord, Ohio.

meeting of the Electron Microscope Society of America, to be held September 9-12 at The Ohio State University in Columbus.

In addition to the symposia, there will be the usual sessions of contributed papers (deadline for abstracts is June 1) and exhibits of relevant instruments. Further information on the exhibits is available from the local chairman, Walter J. Frajola, N205 North Wing, University Hospital, Ohio State University, Columbus, Ohio. Information on the technical program may be obtained from the program chairman, Sydney S. Breese, Jr., Plum Island Animal Disease Laboratory, Greenport, L. I., N. Y.

Quantum Electronics—Resonance Phenomena

BASIC problems in physics and electronics which are important to the use of molecular and atomic resonances in masers, atomic clocks, and related devices, as well as the application of "quantum electronics" to scientific problems, will be under discussion this summer at an international Conference on Quantum Electronics—Resonance Phenomena. Sponsored by the Office of Naval Research, the meeting is to be held September 14-16 at the Shawanga Lodge in Bloomingburg, N. Y.

Among the specific topics to be covered are paramagnetic resonances and relaxation, frequency and time standards based on atomic or molecular resonances, low-noise amplification by stimulated emission, optical spectroscopy of paramagnetic salts, generation of millimeter waves by maser techniques, application of cyclotron resonances in solids to electronics, generation, amplification, and detection of infrared or optical radiation by resonance techniques, and applications of quantum electronics to radio astronomy, high-resolution spectroscopy, and tests of relativity. Since the meeting is intended to be a working conference rather than a tutorial gathering, attendance will be limited to those who are active in the relevant fields of research.

Members of the Steering Committee are G. Birnbaum, N. Bloembergen, R. H. Dicke, C. Kittel, R. Kompfner, B. Lax, I. Rowe, A. E. Siegman, G. J. Stanley, M. W. P. Strandberg, and the chairman, C. H. Townes (Department of Physics, Columbia University, New York 27, N. Y.), from whom further information may be obtained.

Vacuum Technology

ALL phases of vacuum science, including basic theory, small- and large-scale applications, processes, equipment, and components, will be covered at the American Vacuum Society's Sixth National Symposium on Vacuum Technology to be held October 7-9 at the Sheraton Hotel, Philadelphia, Pa.

Deadlines of June 15 and August 15, respectively, have been set for the receipt of abstracts and complete manuscripts of contributed papers. All papers presented will be published in the *Transactions* of the society. Prospective authors and those wishing further information on the meeting should contact the program chair-