

Expansion...

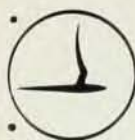
We are seeking five men to join the staff of our expanding Physics Division. The men we would like to hire have a high level of professional competence in one or (preferably) more of these fields:

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Summer Study

The Astronomy Department of the University of California at Berkeley will be the location of a summer conference for college teachers of astronomy to be held from July 7 to August 1 under the joint sponsorship of the University and the National Science Foundation. The four-week program, which will be under the direction of Prof. Cecilia Payne-Gaposchkin of the Harvard College Observatory, will feature a series of lectures by Mrs. Gaposchkin and members of the University faculty and will include several research projects to be directed by Mrs. Gaposchkin with the assistance of graduate students. The participants (limited to about 20 persons) will receive travel and living expense allowances. Persons wishing to take part should write as soon as possible to the Astronomy Department, University of California, Berkeley 4, Calif.

The Quantum Chemistry Group of Uppsala University in Sweden will conduct a summer school in quantum chemistry from July 26 to August 30 in Vålådalen turiststation, Sweden. The group is primarily concerned with research in atomic, molecular, and solid-state theory. The school will be partly supported by the Wright Air Development Center of the Air Research and Development Command, US Air Force, through its European office, under a contract with Uppsala University. Senior scientists who will serve as teachers in the school include Per-Olov Löwdin (Uppsala), Harrison Shull (Indiana University), George G. Hall (Imperial College, London), Laurens Jansen (University of Maryland), Roy McWeeny (University College of North Staffordshire), and Heinz Werner Preuss (Max-Planck-Institut für Physik). Participants ("research workers and students, both beginning and advanced, in theoretical physics and theoretical chemistry and in neighboring fields who have an interest in quantum mechanical methods") will be expected to have a thorough knowledge of elementary quantum mechanics. Main topics to be discussed in lectures and seminars will be fundamental quantum mechanics, angular momentum, many-electron systems, quantum chemistry, and mathematical and numerical methods. In addition, brief survey lectures will be given on statistical mechanics, quantum statistics, and other subjects of interest to the group. The fee, which covers room, board, and registration, is \$250. Applicants must list name, business or university connection, post address, age, sex, citizenship, education and fields of study (examinations, degrees), publications, and accompanying dependents. This information should be sent to Mrs. Lo Gustafsson, Quantum Chemistry Group, Rundelsgränd 2A, Uppsala, Sweden and must arrive there no later than June 1.

A summer study course in microwave theory and technique, including the use of radar by the military and the transportation industries, is being offered August 4-15 at Case Institute of Technology. The series of lectures and laboratory sessions will be conducted on the advanced graduate level, and background require-

ments should include college-level studies in ac circuits and elementary electron tube circuits, as well as mathematics through differential equations. Designed to cover fundamentals of generation and transmission at high frequency, the course will also be concerned with some of the new industrial applications of microwave radiation. Requests for additional information should be addressed to The Director of Special Programs, Case Institute of Technology, 10900 Euclid Avenue, Cleveland 6, Ohio.

Polytechnic Institute of Brooklyn is offering a summer laboratory program for industry consisting of the following intensive courses in the use of specialized tools in physics and chemistry: Industrial Application of X-Ray Diffraction (June 2-13), Applied Infrared Spectroscopy (June 2-6), Polarography and Related Techniques (June 2-6), Synthesis of Polymers with Controlled Propagation (June 16-27), Ion Exchange Resins and Membranes (July 7-11), and High-Temperature Solution Techniques (July 7-11). Further information may be obtained from Mrs. Doris Cattell, Polytechnic Institute of Brooklyn, 333 Jay Street, Brooklyn 1, N. Y.

A three-day seminar on electrical contacts, intended for engineers and physicists working in the areas of heavy current and sliding electrical contacts, is to be held June 16-18 at The Pennsylvania State University. The annual seminar will be conducted mainly on a lecture-demonstration basis, with two sessions each day. Afternoons of the second and third day will be set aside for small group discussions on topics to be selected by those enrolled in the seminar. Further information may be obtained from Prof. Ralph E. Armington, 104 Electrical Engineering Building, The Pennsylvania State University, University Park, Pa.

An advanced short course in quality control by statistical methods will be held June 10-20 at Purdue University, Lafayette, Ind. The course, under the direction of Irving W. Burr, will cover significance tests and estimation, linear and multiple correlation and regression, single and sequential sampling for measurements, and analysis of variance. Further information may be obtained from Prof. Burr at the Statistical Laboratory, Purdue University, Lafayette, Ind.

Programs and Facilities

Georgia Institute of Technology broke ground on March 27 for a new \$600 000 Radioisotopes and Bioengineering Laboratory building. About 60 percent of the building will be devoted directly to radioisotopes and nuclear physics applications in educational research, with the other 40 percent being used for biological research. Special laboratory facilities will include Georgia Tech's subcritical assembly and a 1-Mev Van de Graaff accelerator as well as specific areas devoted to such subjects as the biological effects of radiation and airborne bacteria. Completion of the laboratory is expected in the spring of 1959.

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