
Miscellany

Summer Studies

Of the 1960 National Science Foundation-sponsored summer institutes for high-school and college teachers of science, mathematics, and engineering, the following will emphasize physics or will be concerned with special programs in physics as part of a multiple-purpose institute. Among the institutes for high-school teachers are several organized in whole or in part under the program of the Physical Science Study Committee. Persons interested in attending should write as quickly as possible to the directors of the individual institutes. Unless indicated otherwise, the directors listed below are associated with departments of physics.

For college teachers only

Reed College, Portland, Ore. (Kenneth E. Davis)
Rensselaer Polytechnic Institute, Troy, N. Y. (A. A. K. Booth, Div. of Special Programs)

For high-school and college teachers

Temple University, Philadelphia, Pa. (Elmer L. Offenbacher)
Nebraska Wesleyan University, Lincoln, Nebr. (Walter R. French)

For high-school teachers only

Purdue University, Lafayette, Ind. (R. W. Lefler)
Xavier University, Cincinnati, Ohio (John B. Hart)
University of Vermont, Burlington, Vt. (Nelson L. Walbridge)
University of Wisconsin, Madison, Wisc. (Robert A. Jagard)

For high-school teachers (PSSC institutes)

Stanford University, Stanford, Calif. (Paul Kirkpatrick)
University of Colorado, Boulder, Colo. (John M. Cleveland)
Princeton University, Princeton, N. J. (J. G. Bradshaw, Office of Dean of the Faculty)
Rutgers University, New Brunswick, N. J. (Robert L. Sells)
Fordham University, New York, N. Y. (Frederick L. Canavan, S.J.)
University of Washington, Seattle, Wash. (L. A. Sanderman)

For high-school teachers (with a PSSC program included as part of the institute)

University of Connecticut, Storrs, Conn. (David J. Blick, Science Education)
University of Minnesota, Minneapolis, Minn. (F. Verbrugge)
Pennsylvania State University, University Park, Pa. (William H. Powers, Arts & Sciences Ext.)

March 1 is the deadline for applications to attend the 1960 session of the University of Grenoble's Summer School of Theoretical Physics, which will be held from July 3 to August 27 in Les Houches, France. This year's program will be devoted to dispersion re-

lations in quantum field theory and the properties of elementary particles. The following courses will be presented:

1. *Introduction to Dispersion Relations* (M. L. Goldberger, Princeton University)
2. *Introduction to the Theory of Functions of Several Complex Variables and Introduction to the Theory of Lorentz Group* (A. S. Wightman, Princeton University)
3. *Properties of Vacuum Expectation Values of Field Operators* (A. O. G. Källén, University of Lund)
4. *Démonstration des relations de dispersion* (R. L. Omnes, Commissariat à l'Energie Atomique, France)
5. *Two-Variables Dispersion Relations and Applications* (G. F. Chew, University of California)
6. *Strong Interactions of Elementary Particles* (Y. Yamaguchi, CERN)
7. *Weak Interactions of Elementary Particles* (S. B. Treiman, Princeton University)

Two other courses, bearing on the properties of elementary particles, will be presented by J. Steinberger and F. Gursey, both of the Institute for Advanced Study in Princeton.

Classes are given in French or English and the number of participants is limited to 30. Persons from the United States who are interested in attending should write immediately for application forms to Dr. Cecile DeWitt, Department of Physics, University of North Carolina, Chapel Hill, N. C.

The second in a series of special seminars on applied mathematics and mathematical physics will be conducted during the summer by the American Mathematical Society in cooperation with the University of Colorado. It will take place from July 24 to August 19 on the University's campus in Boulder and will have as its subject "Modern Physical Theories and Associated Mathematical Developments". Sponsoring organizations include the Atomic Energy Commission, the National Science Foundation, the Office of Naval Research, and the Office of Ordnance Research. Included will be a series of courses on classical quantum theory, quantum theory of fields and elementary particles, statistical physics, and related mathematical problems, which will be supplemented by a program of specialized lectures. Applications for attendance at the seminar may be obtained from the chairman of the Program Committee, Prof. K. O. Friedrichs, New York University, 25 Waverly Place, New York 3, N. Y., and should be filed with Prof. Friedrichs by February 15.

Awards

The Atomic Energy Commission has announced the establishment of an Ernest Orlando Lawrence Memorial Award for "recent, especially meritorious contributions to the development, use, or control of atomic energy in areas of all the sciences related to atomic energy, including medicine and engineering". Dr. Lawrence was the director of the University of California's Radiation Laboratory at Berkeley and Livermore, which since his death has been named the