

SCIENCE EDUCATION

Les Houches Summer School

The 1964 session of the University of Grenoble's Summer School of Theoretical Physics will be held from July 1 through August 25 at Les Houches (Haute-Savoie), France. The main topic of the session will be the interaction of electromagnetic waves with matter, including individual courses by N. Kroll, quantum theory of radiation; R. Glauber, statistical properties of light beams; W. E. Lamb, quantum theory of optical masers; J. Brosset, optical pumping; N. Bloembergen, nonlinear processes; J. M. Winter, linewidth of energy levels; A. Abragam, paramagnetic resonance and relaxation; and A. Aigrain, solid-state physics and optical masers. Seminars, with the participation of C. H. Townes and others, are also planned. Both French and English will be used in class.

Intended primarily for young physicists who are interested in the fundamental aspects of quantum electronics, the session will require a solid background in quantum mechanics, classical physics, and, particularly, electromagnetism and atomic physics. Admission will be limited to about thirty participants.

In the past, a number of National Science Foundation travel grants have been available to US citizens who attend such schools as Les Houches, which receive partial support from NATO, and it is hoped that similar grants will be available in 1964. Further information and application blanks can be obtained from Prof. Cecile DeWitt, Department of Physics, University of North Carolina, Chapel Hill, N. C. Completed blanks must be received in Grenoble no later than March 1.

Visiting Fellowships

The visiting-scientists program of the Institute of Mathematical Sciences, Madras, India, periodically invites theoretical physicists and mathematicians from Europe, the United States, and Japan to spend several weeks or months researching and teaching at the Institute in association with its permanent staff. The same program sponsors, by invitation or request, recent graduates for postdoctoral study.

Further information may be obtained by writing to the director, Professor Alladi Ramakrishnan, The Institute of Mathematical Sciences, Madras 4, India.

The University of Colorado at Boulder is offering approximately ten stipends to visiting fellows for study at the Joint Institute for Laboratory Astrophysics during 1964-65. The fellowships will be based solely on scholarly achievements, without restrictions as to citizenship or national origin, and the recipient will be able to do research in whatever area of laboratory astrophysics he chooses. The amount of the stipend will normally equal the fellow's present academic salary,

adjusted to a 12-month basis, and (for those coming from abroad) will be matched to an equivalent US position. No stipend will exceed \$19 000. Round-trip transportation costs for the recipient and his immediate family will be covered over and above the stipend and \$400 will be available for professional travel inside the US during the fellowship. Requests for application forms (closing date January 15) should be addressed to the Secretary for Visiting Fellows, JILA, University of Colorado, Boulder, Colo.

Graduate Programs

Graduate-level study in the field of chemical physics is available under a new program recently established at the University of Maryland. A joint effort of the University's Departments of Physics and Chemistry and Institute for Molecular Physics, the new curriculum will be administered by a three-man committee chaired by Dr. Joseph Vanderslice, professor of molecular physics. The Physics and Chemistry Departments will be represented on the committee by Drs. Ralph E. Glover, III, and William J. Svirbly, respectively.

Robert R. France, Acting Provost of the University of Rochester, has announced the University's intention to establish a graduate-level Center for Visual Science. Patterned after the University's existing centers for brain research and space sciences, the new Center will offer courses taught by faculty members from the Department of Psychology, the Institute of Optics, the Center for Brain Research, the Department of Electrical Engineering, the Division of Ophthalmology in the University's medical school, and others. Degrees will be conferred through the students' academic departments, and, for the present, the new interdisciplinary unit will use laboratory facilities already existing at the University.

Montana State College in Bozeman has inaugurated a PhD program in physics, the first such program in Montana or in any of the four adjoining states. Research in the Physics Department is concentrated in the areas of atomic, molecular, and solid-state physics and in astrophysics. Further information can be obtained from Dr. Irving E. Dayton, Montana State College, Bozeman, Mont.

The Oak Ridge Graduate Fellowship Program, administered for the Atomic Energy Commission by the Oak Ridge Institute of Nuclear Studies, is open to US citizens from any American university that offers the PhD degree. Accepted applicants perform thesis re-