Courses

Immunology, Lake Forrest, Ill., 20 July–1 August. This course is intended primarily for university or college instructors who require more breadth of knowledge of immune mechanisms for teaching and research. Limited to 50 and selection will be on a competitive basis. Applicants should submit a letter to Dr. Edward C. Franklin, Professor of Medicine, New York University, College of Medicine, New York 10016, *not later than 1 April.* The letter should be accompanied by (i) a curriculum vitae, (ii) current research and training activities, (iii) reasons for wanting to enroll in the course, and (iv) background in immunology. This material should be in quadruplicate. *Fee:* $100; per diem costs are approximately $10. (Dr. Peter A. Ward, Chief, Immunobiology Branch, Armed Forces Institute of Pathology, Washington, D.C. 20305)

Topics in Quantum Electronics, San Francisco, Calif., 2–6 February. Topics will include Q-switching and mode-locking of lasers, self-focusing and defocusing of laser beams, laser deflection and modulation, generation and propagation of ultrashort pulses, far infrared sources, nonlinear optics and high-power lasers. *Fee:* $300. (Continuing Education in Engineering, University of California Extension, 2223 Fulton St., Berkeley 94720)

Fundamentals of Electrode Kinetics, Rolla, Mo., 26–28 January. The course is designed for those working in the electrochemical field who may have a good working knowledge of their area but have had little or no formal training in fundamental principles. Subjects to be included are (i) introduction to electrode measurements (application of the Nernst equation, reactant and product activities, reference electrodes, cell design and potential current relationships) and (ii) introduction to electrode kinetics, transient and cyclic techniques, anodic processes, cathodic processes, and corrosion. *Fee:* $200. *Deadline for applications:* 19 January. (Extension Division, University of Missouri, Rolla 65401)

Computer Graphics—From the 60's to the 70's, Las Vegas, Nev., 20–21 November. This seminar deals with a subject which has triggered an exciting era in man-machine communication and the technological revolution. The fascinating possibilities of a drawing that can be constructed dynamically on a cathode-ray-tube display with a light pen—and then modified, repeated, expanded, or contracted, developed into three dimensions, and simultaneously subjected to precise computational analysis—have stirred the imaginations of research and design engineers, scientists, architects, medical doctors, educators, and many others. There will be several movies covering a wide variety of subjects, such as structural design, circuit design, numerical control, and medicine. A panel will discuss the problems of starting in computer graphics—the economics, the fundamentals, management's viewpoint, and the future of computer graphics in science and engineering. (Engineering Update Institutes, P.O. Box 39/V, Woodlands Hills, Calif. 91364)