

Courses

Image Processing, Los Angeles, Calif., 11-22 August. The course presents the basic digital computer, optical and electro-optical image processing techniques, and discusses selected applications in image enhancement, pattern recognition, and efficient picture coding. Should be of interest to engineers and scientists working with imaging and image-processing systems. (P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, University of California, Los Angeles 90024)

Safeguards Training Program, Argonne, Ill., 15 September-14 November. Participants should have the education or the experience equivalent to a degree in science, engineering, accounting, or management, with some nuclear experience. Is divided into four segments: introduction to nuclear technology (15-26 September), measurements in nuclear materials safeguards (29 September-17 October), fundamentals of nuclear materials control (27 October-7 November), and workshop in safeguards (10-14 November). Although the program is designed as a unit, individuals may enroll for one or more segments. However all participants should plan to attend the final workshop week. Fee: \$150 per week; reduced fees available for employees of governmental organizations and AEC cost-type contractors, and for university faculty. (Dr. Manuel A. Kanter, Safeguards Training Program, Argonne

Center for Educational Affairs, Argonne, Ill. 60439)

Fisk Institute on Spectroscopy and Chromatography, Nashville, Tenn., 18-29 August. The Institute includes two infrared spectroscopy courses, one in gas-liquid chromatography, and one in ultraviolet, fluorescence, and atomic absorption spectroscopy. **Basic Infrared Spectroscopy** and **Gas Chromatography** will run concurrently 18-22 August; **Interpretation of IR Spectra** and **UV-F-AA Spectroscopy** will run 25-29 August. Participants may elect to attend either one or both weeks, and persons enrolled in one course may audit the five main lectures of the other concurrent course without additional charge. **Basic Infrared Spectroscopy** is designed to introduce beginners to the theory and applications of infrared spectroscopy and molecular structure. The laboratory program will train participants to construct and renovate liquid, solid, and gas absorption cells; prepare solid and solution samples; calibrate and operate standard infrared spectrophotometers; and use the newer infrared techniques such as ATR for difficult sample materials. In the **Gas Chromatography** laboratory sessions, participants will be trained to prepare and inject samples, run qualitative and quantitative analyses, do temperature programming on a wide variety of chromatographs, and interpret the resulting curves. The second week's course on **Infrared Spectroscopy** will give concentrated training in the interpretation of infrared spectra of

organic and inorganic compounds, together with exposure to the latest developments, techniques, and applications of infrared spectroscopy. **UV-F-AA Spectroscopy** will include 2 days of ultraviolet, 1 day of fluorescence, and 2 days of atomic absorption spectroscopy. Each of the four sessions is limited to 50. Tuition is \$150 per session; registration fee, \$10. Partial tuition fellowships are available for academic personnel. (Nelson Fuson, Director, Fisk Institute, Box 8, Fisk University, Nashville, Tenn. 37203)

Turbulence Measurement in Liquids, Rolla, Mo., 8-9 September. Will cover fields of special interest in measurement techniques, measured variables, and effects of special conditions. (Extension Division, University of Missouri, Rolla 65401)

Vision, Berkeley, Calif., 15-26 September. Designed to introduce engineers to sensory physiology and related topics in neuroscience, the course will feature lectures in such fields as optometry and physiology, computer sciences, and bio-engineering. (Continuing Education in Engineering, University Extension, University of California, Berkeley 94720)

Biological Electron Microscopy, Los Angeles, Calif., 2-13 September. For professional and laboratory personnel who desire knowledge and experience in tissue preparation and ultrathin sectioning for electron microscopy. Fee: \$250. Limited to 12 participants. (Dr. Robert F. Bills, Hancock Foundation, University of Southern California, Los Angeles 90007)

Personnel Placement

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Agricultural Chemist, Ph.D., 22 years in industrial research, laboratory management, pilot plants, and consulting. Innovator. Seeks academic or industrial opportunity in the camellia regions. Box 303, SCIENCE. X

Associate Professor of Internal Medicine, 39, Board Certified. Broad background and interests with research, teaching, administrative, and 4½ years of private practice experience. Interested in chronic, geriatric, and acute disease and in developing and applying new techniques and comprehensive diagnostic screening to clinical care. Open minded and humanistic approach to problems. Desires opportunity to chair department of medicine, or community medicine, or to direct medical department in academic institution where personal basic and clinical research can be continued. Box 304, SCIENCE. X

Biochemist/Molecular Biologist, Ph.D. immigrant, 7 years of postdoctoral experience; nucleic acids, protein synthesis, membranes, hormones, radiation. Physiology background, publications. Available January 1970, teaching/research. Box 305, SCIENCE. X

Geneticist/Cell Biologist, Ph.D. Desires academic appointment, teaching and research. Extensive training in enzymology and mammalian cell culture. Three years of postdoctoral experience. Publications. Box 307, SCIENCE. X

Physicist-Engineer, 30, Ph.D. (U.C.L.A. 1966), publications and university teaching in magnetic and electric properties of materials. Seeks position in biophysics or biotechnology research. Prefer West Coast. Box 298, SCIENCE. X

Psychologist, recent Ph.D. Background in physiological psychology, psychophysics, statistics. Extensive computer programming experience. Desires biomedical research position on West Coast. Box 300, SCIENCE. X

Zoologist, M.A. 1969. Comparative endocrinology and physiology. Publications. Desires teaching/research position beginning September. Write Barry Sherr, Department of Zoology, University of Kansas, Lawrence, Kansas 66044. X

PRINCIPAL RESEARCH TECHNICIAN

is required for the operation of zonal ultracentrifuges for the separation of cell particulates. A candidate with a B.S. or M.S. and at least 2 years' subsequent laboratory experience is desired; however, candidates without a degree with several years of laboratory experience and a working knowledge of physics, chemistry, and biology will be considered. A certain amount of physical strength is required. Rocky Mountain Region.

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HAZLETON LABORATORIES, INC., specializing in applied research directed toward the life and environmental sciences, has an immediate opening for a Biostatistician. Duties include application of statistical techniques; evaluation of biological data; consultation on data handling; and programming. Our facility utilizes an on-line IBM 1800 system for statistical analysis.

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