Courses

Image Processing, Los Angeles, Calif., 11–22 August. The course presents the basic digital computer, optical and electro-optical image processing techniques, and discussions of 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 usual Individual, 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 and students. (P.O. Box 306, Argonne, Ill. 60439)

Fisk Institute on Spectroscopy and Chromatography, Nashville, Tenn., 18–29 August. The Institute includes two infrared spectroscopy workshops, one gas-liquid chromatography, and one in infrared spectroscopy, fluorescence, and atomic absorption spectroscopy. Basic Infrared Spectroscopy and Gas Chromatography will run concurrently 18–22 August; Interpretation of IR Spectra and UV-F-AAA 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 spectroscopic instrumentation. 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 and F-AAA. 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-AAA 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)

Courses 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 bioengineering. (Continuing Education in Engineering, University Extension, University of California, Berkeley 94720)

POSITIONS WANTED

Agricultural Chemist, Ph.D., 22 years in industrial research, laboratory management, pilot plants, and consulting. Interested in industrial opportunity in the camellia region. Box 303, SCIENCE.

Associate Professor of Internal Medicine, 39, Board Certified, Broad background and interests with research, teaching, administrative, and 45 years of private practice experience. Interested in chronic, geriatric, and acute disease and in developing and applying techniques and comprehensive diagnostic screening to clinical care. Open minded and flexible, approaches problems. Desires opportunity to chair department of medicine or public health, or to assist in direct medical teaching in academic institution where personal basic and clinical research can be continued. Box 304, SCIENCE.

Biochemist/Molecular Biologist, Ph.D. immigrant, 7 years of postdoctoral experience; nucleic acids, protein synthesis, mammalian cell biology. Interested in industrial experience. Publications. Box 307, SCIENCE.


Physicist-Engineer, 30, Ph.D. (U.C.L.A. 1960), publications and university teaching in magnetic and electric properties of materials. Seeks position in biophysics or, administrative, research, I'm West Coast. Box 298, SCIENCE.

Physiologist, recent Ph.D. Background in physiological, biological, biochemistry, psychology. Statistics. Extensive computer programming experience. Desires bidding position on West Coast. Box 300, SCIENCE.


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