

Problems, 603 Henry Building, Portland, Ore. 97204)

Contemporary Optics, Rochester, N.Y., 27 July–7 Aug. A course on the background to and the activities in contemporary optics, and divided into four major areas: Fourier optics, quantum optics, geometrical optics, and optical physics. *Tuition*: \$500 before 15 June, \$550 if received later. (Institute of Optics, University of Rochester, Rochester, N.Y. 14627)

Low-Energy Electron Diffraction, Brooklyn, N.Y., 15–19 June. This is a course in the techniques and interpretation of low-energy electron diffraction and related techniques. Emphasis is placed on the fundamental problems of electrons in solids, and the recent developments in LEED theory. Lecture topics include measurements of surface sensitive parameters—work function, optical reflectivity, photoelectric and secondary electron spectroscopy; absorption, epitaxy, and surface chemistry; low-energy electron diffraction—kinematical and dynamical diffraction theory. Registration limited to 20. *Tuition*: \$250 plus \$50 laboratory fee waived for university faculty. (Prof. Richard M. Stern, Dept. of Physics, Polytechnic Institute of Brooklyn, 333 Jay St., Brooklyn, N.Y. 11201)

Liquid Scintillation Counting for Radioisotope Measurement, San Francisco, Calif., 5–6 July. This course in liquid scintillation counting is designed to introduce to the research scientist the technique of radioactivity measurement using liquid scintillation systems. Various theoretical and practical aspects of this counting technique and its uses and applications in research will be treated. The course will combine lectures, demonstrations, laboratory experimentation, and problem-solving discussions. Advance registration only. *Tuition*: \$25. (C. T. Peng, School of Pharmacy, University of California, San Francisco 94122)

Control Engineering, New York, N.Y., 15–18 June. This course will provide mechanical, aero-systems, chemical, electrical, and other engineers working in the automatic control field with an up-to-date broad coverage of control theory and computer capability. Emphasis will be on the practical applications in engineering systems of recent developments in control theory. Topics include formulation of linear systems and computer solution of state equation, discrete-time system and direct digital control, nonlinear system and adaptive control, optimal feedback control and optimum filtering technique, logic control system. (Prof. Henry Lipman, Applied Science and Technology Institute, 1 Fifth Avenue, New York 10003)

Electron Microscopy in Biological Applications, Boston, Mass., 9–21 August. An intensive program in the preparation of biological materials with emphasis on specimen preparation and thin sectioning, designed for predoctoral students and laboratory assistants who need to use the electron microscope in their field of research. Terminal degreed candidates will be considered. Limited to 12 students. (Prof. Clifford Youse, Center for Continuing Education, Northeastern University 360 Huntington Ave., Boston, Mass., 02115)

Personnel Placement

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Recent Ed.D., with strong background in medical sciences, desires university position in health-related teacher preparation or curriculum development. Box 213, *SCIENCE*. 5/29

Microbiologist, Ph.D., Associate Prof. Strong background in animal virology, pathogenic bacteriology, tissue culture and germfree animal research. Publications. Teaching/Research desired. Available Fall 1970, Box 224, *SCIENCE*. 6/5

Neurophysiologist, Ph.D., 1970. Desires research position with some teaching. Broad background with specialization in toxicology. Box 225, *SCIENCE*. 6/5

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Physiologist. Postdoctoral. Research experience in neuro- and cardiovascular physiology. Desires research/teaching position in United States/Canada. Box 216, *SCIENCE*. 5/29

Physiologist-Veterinarian, Ph.D. Teaching/field experience. Publications. Interest: Environmental; Reproductive; Toxicological studies. Desires Teaching/Research. Available immediately. Box 226, *SCIENCE*. X

Reproductive Physiologist/Endocrinologist: Canadian citizen, veterinarian. Several years' teaching and research experience. Ph.D. expected in 1970. Seeks challenging position in Animal Reproduction, Steroid Hormones, Semen Chemistry or Fertility Control. Box 227, *SCIENCE*. X

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The University of Western Ontario Director of Laboratory Animal Services

Applications are invited for the post of Director of Laboratory Animal Services from candidates having the following qualifications: licensed (or eligible to be licensed) to practice veterinary medicine in the Province of Ontario, post-graduate training and experience suitable for an academic appointment, experience (including administrative) in the field of laboratory animal care. The appointee will be expected to direct and co-ordinate the laboratory animal services of the university, and he will be encouraged to participate in teaching and research activities. Salary will be in keeping with the appointee's qualifications. Applications, including curriculum vitae should be submitted to: **Dr. R. B. Philp, University Council on Animal Care, The University of Western Ontario, London 72, Canada.**

ECOLOGIST

Quantitative background, interested in marine realm. Zooplankton background and interest preferred. Rank/salary open. Application, curriculum vitae, names of three references to: **Garth Murphy, Chairman, Department of Oceanography, 2525 Correa Road, University of Hawaii, Honolulu, Hawaii.**

ELECTRON MICROSCOPIST

Applications are invited for a new position in the Department of Obstetrics and Gynecology at the University of Southern California School of Medicine. Primary responsibility will include research in reproductive biology. Minimal teaching. Staff position with academic affiliation. Salary open. Address inquiries to: **Dean L. Moyer, M.D., Chief, Section of Experimental Pathology, Room L1013, Women's Hospital, 200 North State Street, Los Angeles, California 90033.**

UNIVERSITY HOSPITAL London 2, Ontario, Canada DEPARTMENT OF NUCLEAR MEDICINE

University Hospital, the principal teaching hospital of the Faculty of Medicine of the University of Western Ontario, London, Ontario, Canada, is a 435-bed institution presently under construction, with completion scheduled for May 1972. The Hospital is seeking a qualified and experienced physician to be in charge of its Department of Nuclear Medicine. Applicants for the position are asked to send detailed résumé of qualifications with listings of publications and names of at least two references, to the attention of **Dr. J. B. Neilson, Executive Director, University Hospital, 660 Richmond Street, London 12, Ontario, Canada.**

Senior research position available: **Directorship of fully equipped Infectious Disease Research Laboratories** at the new Izaak Walton Killam Hospital for Children, opening May 1970. Appointment will be at the full Professorial level at Dalhousie University in Microbiology or Pediatrics with commensurate salary. Applicants should be well-established investigators in microbiology or immunology, preferably with a special interest in infectious or immunological problems of childhood.

The investigative unit comprises a group of fully equipped research laboratories with ample facilities for fellowship trainees and graduate students. The laboratories will be partly staffed by established research personnel from the Departments of Microbiology and Pediatrics.

Applications may be made to **Professor R. Goldbloom, Head, Department of Pediatrics, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada.** Letters of application should be accompanied by a curriculum vitae, bibliography, and the names of three referees.

POSITIONS OPEN

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
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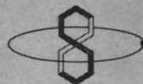


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