

Announcements

Preliminary Announcement

Course on biological applications of Video Microscopy, Confocal Laser Scan Microscopy and Flow Cytometry

April 17–20, 1994, Leiden, The Netherlands

(Center for Drug Research, Leiden/Amsterdam)

Course outline

The availability of fast personal computers has led to a rapid development of computer-assisted optical microscopy. A number of systems have been introduced which permit the researcher to do studies which until recently were impossible to perform. This course will focus on the biological applications of Video Microscopy (VM), Confocal Laser Scan Microscopy (CLSM) and Flow Cytometry (FC). These systems were originally built and developed by physicists, their application is however mainly in the life sciences by biochemists, pharmacologists, cell biologists etc. Biological application of these new techniques has become a rapid growing branch of science. Users are found in universities in the chemical, pharmaceutical and food industry as well as in hospitals and regulatory institutions.

In the course experts on the application of these instruments will give short introductions on the design, theoretical background and applications of VM, CLSM and FC. In three half-day sessions the possibilities of these systems will be demonstrated.

The last day speakers from industry and hospital research groups will show examples of the applications in their fields.

The course is designed for scientists and R&D people who want to apprehend the latest state-of-the-art of computer-assisted microscopy and who want to learn about the (im)possibilities of these systems and the possible benefits for their own research.

Course direction

Dr. J. F. Nagelkerke

Associate Professor, Division of Toxicology, Leiden/Amsterdam Center for Drug Research (LACDR). He has introduced and supervises the Video Microscopy, Confocal Laser Scan and Flow Cytometry systems of the LACDR. His research is directed towards visualisation and quantification of the effects of xenobiotics in individual living cells.

Prof.dr. H. J. Tanke

Professor of Cell Biology with emphasis on analytical cytology, Faculty of Medicine, Leiden University. His expertise is within the field of the development and application of microscopical techniques for the quantitative analysis of cells. Research activities focus on the improvement of detection sensitivity by using new fluorescent labels and sensitive detection systems.

Dr. C. Cullander

Faculty member of the Department of Pharmacy & Pharmaceutical Chemistry, School of Pharmacy, of the University of California (UCST) and Honorary Associate Professor at LACDR. He supervises the confocal laser scanning microscope facility in the Departments of Pharmacy and Pharmaceutical Chemistry at UCSF. His research interests include mechanistic studies of transdermal drug delivery and the formation and maintenance of barrier function in mammalian skin.

Registration information

Course venue: The course will be held **on Sunday-evening** at the Holiday inn Hotel, Leiden and **on the other days** at the Sylvius Laboratories, Wassenaarseweg 72, Leiden.

For registration form or further details, please write by fax or mail to: LACDR-Secretariat, c/o Mrs. F. J. Velhorst, P.O. Box 9502, 2300 RA Leiden, The Netherlands. Phone 31 71 274341; Fax 31 71 274277.

For details on **hotel accommodation** contact the LACDR-Secretariat.

Fee: Individual fee: Hfl. 1,900.-. This includes course documentation, dinner on Sunday-evening, mid-session refreshments and lunches during the course programme.

Group fee: Hfl. 1,900.- for the first participant, and Hfl. 1,650.- for the second and following participants from the same organization.

Ph.D. students: Up to five Ph.D. students may attend the course for a reduced fee of Hfl. 600.-. A statement of the supervisor acknowledging the status of Ph.D. student should accompany the registration form.

Registration and payment: It is advised to forward the registration form as soon as possible in view of the limited course capacity of 18 participants. Conformation of registration will be returned upon receipt, together with an invoice. Course participation is possible only after payment has been received. The organization reserves the right to cancel the course should the number of registrants be lower than 12. Notice of cancellation with a full refund, will be given before **March 1, 1994**.

Cancellations: Cancellations can only be made in writing to the LACDR-Secretariat. Cancellations with a full refund may be made until February 15, 1994. For cancellations post-marked between February 15 and April 1, 1994: 50% refund. No refund is possible on cancellations post-marked after this date. Substitutions may be made at any time.

Arrival: Sunday, 17 April 1994, 18.00–18.30 hrs.

Course language: The official language of the course is English.