Courses

Chemical Ionisation Mass Spectrometry

August 30–31, 1983, *Wokingham*
September 1–2, 1983, *Evry, France*
September 6–7, 1983, *Amsterdam, The Netherlands*

These courses will be held at various European offices of Hewlett-Packard, and will be taken by Professor Burnaby Munson of the Department of Chemistry, University of Delaware. They will cover fundamentals of ion-molecule reactions and the chemical ionisation spectra produced by these reactions at high pressures. Positive ion and negative ion CIMS will be discussed.

For information on the British course contact Mrs. Louise Theron, Hewlett-Packard Ltd., King Street Lane, Winnersh, Wokingham, Berkshire, RG11 5AR, for the French course contact Mrs. Lucette Maillot, Hewlett-Packard France, z.1. de Courtabouef, F–91947 Les Ulis, France, and for the Dutch course contact Mrs. Irene Voogt, Hewlett-Packard Nederland B.V., Van Heuven Goedhartlaan 121, P.O. Box 667, NL–1180 AR Amstelveen, The Netherlands.

Flow Injection Analysis

September 14–16, 1983, *Loughborough*

A course on this topic will be held at the University of Technology. It will be designed for those who would like to know what flow injection analysis has to offer in their own particular field of chemical analysis and to obtain some practical experience with the technique. The course will be introductory in nature, but will also present current trends in the subject.

The course fee for residents will be £115. For further information contact Miss C. D. Newton, Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire, LE11 3TU.

Micromeritics Particle Technology Seminars

September 19–20, 1983, *Houston, Tx, USA*
September 21–22, 1983, *Rosemont, Il, USA*
September 26–27, 1983, *San Francisco, Ca, USA*
September 28–29, 1983, *Los Angeles, Ca, USA*
October 5–6, 1983, *Atlanta, Ga, USA*

The two-day Micromeritics Particle Technology Seminars were first introduced in 1982 and are a comprehensive overview for both new and experienced practitioners of particle technology science. This expanding area of science deals with measurement problems commonly experienced in materials processing, manufacturing and use. Particle technology is a diverse blend of many sciences, including physical, electrical, chemical and molecular. This course is especially valuable to scientists and engineers concerned with evaluating physical properties of materials.

Six sessions provide a balance of theory and practice for: Particle Size Analysis, Surface Area Analysis, Pore Structure Analysis, Chemisorption Analysis, Density Measurement and Zeta Potential Measurement. A particle technology introduction and applications overview are included. The general courses include a comprehensive course workbook and lunches on both days. Seminar registration information can be obtained by contacting Carol Stancel at Micromeritics Instrument Corporation, 5680 Goshen Springs Road, Norcross, GA 30093, USA.

Pharmaceutical Aerosols

October 3–5, 1983, *Amsterdam, The Netherlands*

This course, which will be organised by the Center for Professional Advancement, will explore the practical and theoretical aspects of pharmaceutical aerosols. It will present an account of formulation, manufacture and quality control of all types of pharmaceutical aerosols. The Course Director will be Simon Welch (Lederle Laboratories), and among other speakers will be J. Blanie (Valvois), G. W. Hallworth (Glaxo), M. Lover (Reed and Carnrick), C. Rhodes (University of Rhode Island) and B. Russell (Glaxo).

The course will be held at the Crest Hotel in Amsterdam. For information contact The Center for Professional Advancement, Palestrinastraat 1, 1071 LC, Amsterdam, The Netherlands.

Industrial Toxicology

October 4–6, 1983, *Amsterdam, The Netherlands*

Organised by the Center for Professional Advancement, this course has been developed to emphasise the practical aspects of hazard assessment principles and procedures crucial to those chemical process companies that must obtain toxicological information on the products that they manufacture, develop, distribute and purchase. The Course Director will be T. Ellison (T. Ellison Associates), while other speakers will be M. A. Inchiosa (New York Medical College) and G. Zbinden (Swiss Federal Institute of Technology).

For the location and further information see Pharmaceutical Aerosols above.

Drug Product Stability and Shelf-life

October 5–7, 1983, *Amsterdam, The Netherlands*

The objective of this course is to explore in detail theoretical and practical aspects of the stability of pharmaceutical and cosmetic products. Coverage will be given to the degradation of such products by chemical, physical and microbiological factors. The methods available for the evaluation of the stability of pharmaceutical products will be reviewed and attention will be given to practical problems involved in the selection of the appropriate type and concentration of preservatives. The Course Directors will be C. T. Rhodes (University of Rhode Island) and H.-L. Fung (State University of New York), while additional speakers will be C. F. Boudreau (William H. Rover, Inc.), D. A. Dean (Fisons Limited), B. T. Loftus (Consultant) and A. Smith (Ayerst Laboratories).

The course will be organised by the Center for Professional Advancement. For the location and further information see Pharmaceutical Aerosols above.

Computers in the Pharmaceutical Industry

October 10–11, 1983, *Amsterdam, The Netherlands*

The Center for Professional Advancement are to organise this course, which, it is hoped, will provide a comprehensive review of the use of computers for pharmaceutical purposes. It will include a discussion on the application of microcomputers and mainframe computers to pharmaceutical analysis and regulation. The Course Director will be D. S. Greene (Bio Research Laboratories, Montreal, Canada), while the other speakers will be E. D. Purich (US FDA) and C. T. Rhodes (University of Rhode Island).

For the location and further information see Pharmaceutical Aerosols above.