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### BASIC PRINCIPLES OF HPLC AND HPLC SYSTEM TROUBLESHOOTING

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ANNOUNCEMENT

**BASIC PRINCIPLES OF HPLC  
AND HPLC SYSTEM TROUBLESHOOTING**

**A Two-Day  
In-House Training Course**

The course, which is offered for presentation at corporate laboratories, is aimed at chemists, engineers and technicians who use, or plan to use, high performance liquid chromatography in their work. The training covers HPLC fundamentals and method development, as well as systematic diagnosis and solution of HPLC hardware module and system problems.

The following topics are covered in depth:

- Introduction to HPLC Theory
- Modes of HPLC Separation
  - Developing and Controlling Resolution
  - Mobile Phase Selection and Optimization
  - Ion-Pairing Principles
  - Gradient Elution Techniques
  - Calibration and Quantitation
  - Logical HPLC System Troubleshooting

The instructor, Dr. Jack Cazes, is Editor-in-Chief of the Journal of Liquid Chromatography & Related Techniques, of Instrumentation Science & Technology, and of the Chromatographic Science Book Series. He has been intimately involved with liquid chromatography for more than 30 years; he pioneered the development of modern HPLC technology. Dr. Cazes was Professor-in-Charge of the ACS Short Course and the ACS Audio Course on Gel Permeation Chromatography for many years.

Details of this course may be obtained from Dr. Jack Cazes, P. O. Box 2180, Cherry Hill, NJ 08034-0162, USA. Tel: (609) 424-3505; FAX: (609) 751-8724