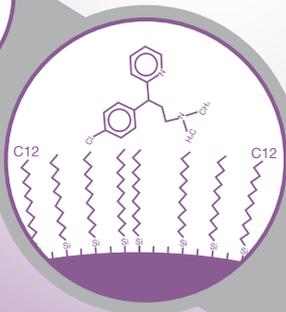
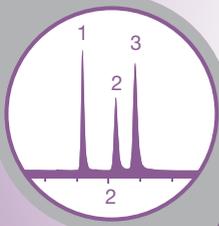


# The HPLC Seminars

June 2008



*Early  
Bird*

**10%  
DISCOUNT**

if you book before  
18th April 2008

**ADVANZA**<sup>™</sup>  
INSTITUTE

Sponsored by  **phenomenex**<sup>™</sup>

# Seminar 1

## An Introduction to HPLC

*An introduction to the theory & practice of HPLC*

### Morning Topics

- The fundamental concepts of HPLC.
- Interactions key in chromatography in relation to the 4 modes of HPLC.
- The fundamental principles of HPLC: capacity factor, column efficiency, selectivity and resolution.
- Discussion on how to relate the 4 basic concepts to HPLC analytical methods.
- Understanding and troubleshooting HPLC systems: pumping systems and gradients; sample introduction; connecting tubing and fittings; detectors; routine maintenance; troubleshooting.

### **LUNCH (included)**

### Afternoon Topics

- The HPLC column: separation matrices; available bonded phases; column hardware; methods to evaluate and select HPLC columns.
- The mobile phase: which solvents to use; how different solvents affect selectivity; how best to utilise solvent gradients.

### Who Should Attend?

- Technical individuals who are completely new to chromatography or HPLC in particular.
- Analytical or research chemists who are currently using HPLC but would like to increase their understanding of the fundamentals involved in HPLC.

#### **To book:**

**call** UK: 01625 501367 or EIRE: 01 247 5405 and ask for Seminar Registration

**OR fax** the booking form to 01625 501796

**OR post** the Prepaid booking form to Phenomenex Ltd at the address on the back cover

**OR email** [ukinfo@phenomenex.com](mailto:ukinfo@phenomenex.com)

# Seminar 2

## HPLC Method Development

*An intermediate-level seminar revealing the keys to systematic method development in HPLC*

### Morning Topics

- A brief review of the 4 basic theoretical concepts of HPLC: capacity factor, column efficiency, selectivity and resolution.
- The HPLC column: *everything you ever wanted to know about HPLC columns but were afraid to ask!* What is the role of the column in HPLC separations? the pros and cons of different matrices; an examination of HPLC column chemistry; how to approach evaluating columns based on selectivity and performance; how to select robust and reproducible columns.

#### **LUNCH (included)**

### Afternoon Topics

- The mobile phase: the role of solvent strength in separations; the 3 solvents most frequently used; why they are used; the effect on selectivity.
- The use of pH in optimising selectivity: the use of ion-pairing reagents.
- A systematic approach to the development of robust HPLC methods: logical step-by-step approach to developing HPLC methods; how to improve existing methods.

### Who Should Attend?

- Experienced chromatographers who would like to increase their understanding of the chemistry of HPLC columns and mobile phases.
- Analytical or research chemists who are involved in developing, maintaining or improving HPLC methods.
- Anyone interested in studying the keys to HPLC methods in an intense, concentrated seminar.

#### **To book:**

**call** UK: 01625 501367 or EIRE: 01 247 5405 and ask for Seminar Registration

**OR fax** the booking form to 01625 501796

**OR post** the Prepaid booking form to Phenomenex Ltd at the address on the back cover

**OR email** [ukinfo@phenomenex.com](mailto:ukinfo@phenomenex.com)

# The Advanza Institute

The **Advanza Institute** is an educational establishment sponsored by Phenomenex which is dedicated to offering improved, more practical and professional development seminars and short courses to the scientific community. From fundamentals through to advanced theory, the Advanza Institute utilises superior training design and course materials, industry-leading trainers, and more relevant topics to not only provide information needed on the job, but to motivate the scientist to develop a more thorough understanding and interest in their work. Whether in an open-enrollment course, on-site course or customised training programme, Advanza and its instructors will empower you to become a better scientist.

**To book:**

**call** UK: 01625 501367 or EIRE: 01 247 5405 and ask for Seminar Registration

**OR fax** the booking form to 01625 501796

**OR post** the Prepaid booking form to Phenomenex Ltd at the address on the back cover

**OR email** [ukinfo@phenomenex.com](mailto:ukinfo@phenomenex.com)

# The Instructor

Dr. James Rudge has been involved in various aspects of HPLC since 1996.

Since obtaining his BSc. (Hons.) in Biochemistry and Ph.D in Organic Chemistry from the University of Wales, Swansea, he has built an impressive theoretical and practical knowledge of analytical chemistry and chromatographic techniques through his work at Phenomenex and close links with industry.

James has extensive experience of presenting short and long courses in a variety of subjects relating to chromatography, and HPLC in particular. He has presented seminars to audiences around the world, and brings a large amount of contemporary knowledge to his seminars. These seminars will be presented with an enthusiasm for the subject and wealth of knowledge that will leave all those who attend refreshed and better prepared to utilise their skills in their work.

**To book:**

**call** UK: 01625 501367 or EIRE: 01 247 5405 and ask for Seminar Registration

**OR fax** the booking form to 01625 501796

**OR post** the Prepaid booking form to Phenomenex Ltd at the address on the back cover

**OR email** [ukinfo@phenomenex.com](mailto:ukinfo@phenomenex.com)

# The Seminar Schedule

## Dublin

*Carlton Dublin Airport Hotel, Old Airport Road, Cloghran, Co. Dublin*

5th June 2008: Seminar 1, An Introduction to HPLC

6th June 2008: Seminar 2, HPLC Method Development

## Manchester

*Cheadle House, Cheadle Royal Business Park, Cheadle, SK8 3FS*

9th June 2008: Seminar 1, An Introduction to HPLC

10th June 2008: Seminar 2, HPLC Method Development

## Reading

*University of Reading, Cedar Room & Black Horse House, Whiteknights, Reading, RG6 6BW*

17th June 2008: Seminar 1, An Introduction to HPLC

18th June 2008: Seminar 2, HPLC Method Development

### **To book:**

**call** UK: 01625 501367 or EIRE: 01 247 5405 and ask for Seminar Registration

**OR fax** the booking form to 01625 501796

**OR post** the Prepaid booking form to Phenomenex Ltd at the address on the back cover

**OR email** [ukinfo@phenomenex.com](mailto:ukinfo@phenomenex.com)

