

# SHORT COURSES

## GC

1–3 March, Tuscon, AZ; 2–4 April, Orlando, FL; 7–9 May, Pittsburgh, PA; 4–6 June, Baltimore, MD; 9–11 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: hnpacs@aol.com, Web site: <http://pacslabs.com>.

### **Intro to GC Troubleshooting & PM**

2 March, Richardson, TX.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **Techniques of GC**

5–9 March, Chicago, IL; 5–7 June, Richardson, TX; 16–20 July, Chicago, IL.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **Comprehensive Capillary GC**

13 March, Miami, FL; 14 March, Jacksonville, FL; 16 March, Atlanta, GA; 1 May, Lexington, KY; 2 May, Blue Ash, OH; 4 May, Columbus, OH; 12 June, Lafayette Hill, PA; 15 June, Wilmington, DE; 19 June, Cleveland, OH; 20 June, Buffalo, NY; 22 June, Pittsburgh, PA; 23 July, Idaho Falls, ID; 25 July, Boise, ID; 26 July, Spokane, WA.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: [joe.konschnik@restek.com](mailto:joe.konschnik@restek.com).

### **GC-MS Training Seminar**

19 March, Houston, TX; 21 March, Austin, TX; 23 March, Dallas, TX; 10 April, San Francisco, CA; 11 April, Sacramento, CA; 13 April, San Jose, CA; 25 April, Indianapolis, IN; 23 April, Detroit, MI; 27 April, St. Louis, MO; 9 May, Buena Park, CA; 11 May, Albuquerque, NM.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: [joe.konschnik@restek.com](mailto:joe.konschnik@restek.com).

### **GC: Fundamentals, Troubleshooting, and Method Development (Lecture/Lab Course)**

19–23 March, Chicago, IL; 14–18 May,

Chicago, IL; 13–17 August, Chicago, IL; 5–9 November, Chicago, IL.

**Contact:** ACS; tel. (800) 227-5558, e-mail: [shortcourses@acs.org](mailto:shortcourses@acs.org), Web site: <http://www.chemistry.org>.

### **Techniques in GC-MS**

20–22 March, Andover, MA; 18–20 September, Santa Clara, GA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **Fundamental GC and Data Handling**

10–11 April, Atlanta, GA; 12–13 June, San Jose, CA.

**Contact:** PerkinElmer LAS; tel. (800) 762-4000 x4, Web site: <http://las.perkinelmer.com/trainings/coursesearch.htm>.

### **GC Columns and Troubleshooting**

10–11 April, Atlanta, GA; 12–13 April, Atlanta, GA; 12–13 June, San Jose, CA; 14–15 June, San Jose, CA.

**Contact:** PerkinElmer LAS; tel. (800) 762-4000 x4, Web site: <http://las.perkinelmer.com/trainings/coursesearch.htm>.

### **Basic Gas Chromatography**

17–18 April, West Palm Beach, FL; 21–22 August, West Palm Beach, FL; 23–24 October, West Palm Beach, FL.

**Contact:** Thermo Scientific; tel. (800) 532-4752, Web site: <http://www.thermo.com/education>.

### **Basic Gas Chromatography**

30 April–2 May, West Palm Beach, FL; 25–27 September, West Palm Beach, FL.

**Contact:** Thermo Scientific; tel. (800) 532-4752, Web site: <http://www.thermo.com/education>.

### **Headspace GC Theory and Technology**

1–2 May, Orlando, FL; 18–19 July, Wilmington, DE.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **Modern Practice of Gas Chromatography**

### **matography**

22–24 May, West Chester University, West Chester, PA.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: [joe.konschnik@restek.com](mailto:joe.konschnik@restek.com).

### **Capillary GC Method Development**

12–15 June, Alpharetta, GA; 2–5 October, Alpharetta, GA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **GC Hands-On Maintenance and Troubleshooting**

13 June, Lafayette Hill, PA.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: [joe.konschnik@restek.com](mailto:joe.konschnik@restek.com).

## HPLC

### **HPLC: Principles and Applications**

1–2 March, Tuscon, AZ; 4–5 April, Orlando, FL; 14–15 May, Pittsburgh, PA; 11–12 June, Baltimore, MD; 2–3 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: hnpacs@aol.com, Web site: <http://pacslabs.com>.

### **Advanced HPLC Method Development**

26–27 March, Somerset, NJ; 16–17 April, Rosemont, IL; 14–15 May, Foster City, CA.

**Contact:** LC Resources; tel. (800) 379-5221, e-mail: [info@lcresources.com](mailto:info@lcresources.com), Web site: <http://www.lcresources.com>.

### **The Practice of Modern HPLC**

29–30 March, Somerset, NJ; 19–20 April, Rosemont, IL; 17–18 May, Foster City, CA.

**Contact:** LC Resources; tel. (800) 379-5221, e-mail: [info@lcresources.com](mailto:info@lcresources.com), Web site: <http://www.lcresources.com>.

### **Comprehensive HPLC**

30 March, Rockville, MD; 27 March, Princeton, NJ; 28 March, Lafayette Hill; 14 May, Columbus, OH; 16 May, Research Triangle Park, NC; 9 July, Chicago, IL; 11 July, Madison, WI; 13 July, Kansas City, MO.

# SHORT COURSES

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: joe.konschnik@restek.com.

## **HPLC: Fundamentals, Troubleshooting, and Method Development (Lecture/Lab Course)**

16–20 April, Chicago, IL; 25–29 June, Chicago, IL; 24–28 September, Chicago, IL; 10–14 December, Chicago, IL.

**Contact:** ACS; tel. (800) 227-5558, e-mail: shortcourses@acs.org, Web site: <http://www.chemistry.org>.

## **HPLC Troubleshooting and Diagnostics**

7 May, Baltimore, MD; 8 May, Philadelphia, PA; 9 May, Saddle Brook, NJ.

**Contact:** LC Resources; tel. (800) 379-5221, e-mail: [info@lcresources.com](mailto:info@lcresources.com), Web site: <http://www.lcresources.com>.

## **Introductory HPLC Short Course**

14–16 May, West Chester University, West Chester, PA.

**Contact:** Lorraine Henrich, Shimadzu Scientific Instruments; tel. (610) 485-9024, e-mail: [lthenrich@shimadzu.com](mailto:lthenrich@shimadzu.com).

## **HPLC Method Development for LC-MS Operations**

17–18 July, West Palm Beach, FL.

**Contact:** Thermo Scientific; tel. (800) 532-4752, Web site: <http://www.thermo.com/education>.

## **HPLC Method Development for LC**

23–24 October, West Palm Beach, FL.

**Contact:** Thermo Scientific; tel. (800) 532-4752, Web site: <http://www.thermo.com/education>.

## LC-MS

### **LC-MS**

14–15 March, Tuscon, AZ; 1–2 April, Orlando, FL; 3–4 May, Pittsburgh, PA; 6–7 June, Baltimore, MD; 11–12 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **LC-MS Training Seminar**

20 March, Indianapolis; 21 March, Chicago, IL; 23 March Minneapolis, MN.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: joe.konschnik@restek.com.

### **Single Quad MS and Photo Diode Array Automation for LC Method Development**

30 April.

**Contact:** Jessica L. Adams, Web Seminar Manager, Life Sciences Group, Advanstar Communications, 7500 Old Oak Blvd, Cleveland, Ohio 44130; (440) 891-2698, fax (440) 891-2727, Website: [Jessica.Adams@Advanstar.com](mailto:Jessica.Adams@Advanstar.com).

### **Fundamental LC**

1–2 May, Shelton, CT.

**Contact:** PerkinElmer LAS; tel. (800) 762-4000 x4, Web site: <http://las.perkinelmer.com/trainings/coursesearch.htm>.

### **Techniques of Modern LC**

1–4 May, Chicago, IL; 21–24 August, Chicago, IL.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

### **Advanced LC and Lab with Hands-on LC-MS**

21–23 May, Ursinus College, Collegeville, PA.

**Contact:** Brian Bidlingmeyer, Agilent Technologies; tel. (302) 993-5835, e-mail: [Brian\\_Bidlingmeyer@agilent.com](mailto:Brian_Bidlingmeyer@agilent.com)

## Miscellaneous

### **Capillary Electrophoresis:**

#### **Practical Capillary Electrophoresis**

**Contact:** CE Technologies; tel. (914) 238-0518, e-mail: [robertweinberger@aol.com](mailto:robertweinberger@aol.com).

### **Expert Witness Practices for Scientists**

1 March, Tuscon, AZ; 11 April, Orlando, FL; 28 May, Pittsburgh, PA; 18 June, Baltimore, MD; 20 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **LIMS Course-Lab Information Management Systems**

1–2 March, Tuscon, AZ; 5–6 April, Orlando, FL; 19–20 May, Pittsburgh, PA; 18–19 June, Baltimore, MD; 9–10 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **Mass Spectral Interpretation: Beginner**

3–5 March, Tuscon, AZ; 4–6 April, Orlando, FL; 9–11 May, Pittsburgh, PA; 6–8 June, Baltimore, MD; 11–13 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **Mass Spectral Interpretation: Intermediate**

3–5 March, Tuscon, AZ; 6–8 April, Orlando, FL; 11–13 May, Pittsburgh, PA; 8–10 June, Baltimore, MD; 13–15 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **Toxicology or OSHA Lab Safety Standard**

5–6 March, Tuscon, AZ; 12–13 April, Orlando, FL; 18–19 May, Pittsburgh, PA; 19–20 June, Baltimore, MD; 16–17 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **CE: Principles and Applications**

5–6 March, Tuscon, AZ; 2–3 April, Orlando, FL; 17–18 May, Pittsburgh, PA; 14–15 June, Baltimore, MD; 4–5 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

### **Mass Spectral Interpretation: Advanced**

5–7 March, Tuscon, AZ.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com).

# SHORT COURSES

aol.com, Web site: <http://pacslabs.com>.

## **Laboratory Compliance Workshop**

5–9 March, Alpharetta, GA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Quality Assurance of Chemical Measurements**

8–9 March, Tuscon, AZ; 3–4 April, Orlando, FL; 21–22 May, Pittsburgh, PA; 11–12 June, Baltimore, MD; 16–17 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **Environmental Data Validation – Organic and Inorganic**

10–11 March, Tuscon, AZ; 5–6 April, Orlando, FL; 23–24 May, Pittsburgh, PA; 13–14 June, Baltimore, MD; 18–19 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **AA/GFAA/ICP: Intermediate**

12–13 March, Tuscon, AZ; 3–4 April, Orlando, FL; 5–6 May, Pittsburgh, PA; 8–9 June, Baltimore, MD; 13–14 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **Environmental Analyses**

13 March, Somerset, NJ; 14 March, Columbia, MD; 16 March, Lancaster, PA; 8 May, Buena Park, CA.

**Contact:** Joe Konschnik, Restek Corporation; tel. (302) 838-5796; e-mail: [joe.konschnik@restek.com](mailto:joe.konschnik@restek.com).

## **Activated Carbon Adsorption Principles, Practices, Opportunities**

13–14 March, Tuscon, AZ.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **ICP-MS**

14–15 March, Tuscon, AZ; 1–2 April, Orlando, FL; 3–4 May, Pittsburgh, PA; 6–7 June, Baltimore, MD; 11–12 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **Technical Writing**

19–20 March, Tuscon, AZ; 19–20 April, Orlando, FL; 30–31 May, Pittsburgh, PA; 18–19 June, Baltimore, MD; 5–6 July, Sydney, Australia.

**Contact:** Henry Nowicki; tel. (800) 367-2587, fax (724) 457-1214, e-mail: [hnpacs@aol.com](mailto:hnpacs@aol.com), Web site: <http://pacslabs.com>.

## **Intro to Mass Spectral Interpretation**

21 March, Alpharetta, GA; 25 October, Wilmington, DE.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Intermediate Mass Spectral Interpretation**

22 March, Alpharetta, GA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Introduction to FT-IR and Spectrum Software**

28–29 March, Shelton, CT.

**Contact:** PerkinElmer LAS; tel. (800) 762-4000 x4, Web site: <http://las.perkinelmer.com/trainings/coursesearch.htm>.

## **Interpretation of Mass Spectra**

10 April, Richardson, TX; 15–17 May, Andover, MA; 26–28 June, Schaumburg, IL; 17–19 Englewood, CO; 7–9 August, Anaheim, CA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Introduction to ICP-MS**

30 April.

**Contact:** Jessica L. Adams, Web Seminar Manager, Life Sciences Group, Advanstar Communications, 7500 Old Oak Blvd,

Cleveland, Ohio 44130; (440) 891-2698, fax (440) 891-2727, Website: [Jessica.Adams@Advanstar.com](mailto:Jessica.Adams@Advanstar.com).

## **Validation and Method Development of Analytical Chiral Separations**

25 April, Ft. Washington, PA.

**Contact:** James Sullivan; tel. (302) 737-2137, e-mail: [JsullivanN@aol.com](mailto:JsullivanN@aol.com).

## **Protein Chromatography: Engineering Fundamentals and Measurements for Process Development and Scale-up**

13–18 May, Charlottesville, VA.

**Contact:** Giorgio Carta; tel. (434) 924-6281, e-mail: [gc@virginia.edu](mailto:gc@virginia.edu), Web site: <http://www.bioprocessingprofessionals.org/Education/Chromatography/Chromatography.htm>

## **Mass Spectrometry for Protein & Peptide Scientists**

26–28 June, Manchester, United Kingdom.

**Contact:** Vicki Edwards (Course Administrator); tel. +44 161 306 4532, e-mail: [victoria.edwards@manchester.ac.uk](mailto:victoria.edwards@manchester.ac.uk), Web site: <http://www.mbc.manchester.ac.uk/events.html>.

## **Analytical Chemistry for Chromatographer**

10–12 July, Hershey, PA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Analytical Method Validation Workshop**

1–3 October, Alpharetta, GA.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.

## **Analytical Chemistry for Chromatographer**

23–25 October, Wilmington, DE.

**Contact:** Agilent Technologies; tel. (800) 227-9770, Web site: <http://www.chem.agilent.com/scripts/education.asp>.