

Calibration & Validation Group  
2-3415 Dixie Rd., Suite 402  
Mississauga, Ontario  
Canada, L4Y 4J6

### REGISTRATION FORM

Sign up as:  
 CVG Member  
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 I would like to become  
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Price  
\$800.00  
\$900.00  
Total: \$30.00

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Method of Payment: Cheques or VISA card only  
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Advanced HPLC Method Development will  
be held at the following sites:

**1. Toronto, April 28-29, Holiday Inn  
Toronto Airport East. 600 Dixon Road  
Toronto (416-240-4382). Lecturer is  
bilingual.**

**2. Montreal Apr30-May1, Four Point  
Sheraton, 6600 Cote-de-Liesse (514-  
735-5150). Lecturer is bilingual.**

Registration: 8:00am-8:30am  
Course: 8:30am-5:00pm

Registration fee includes two-day course,  
reference materials, continental breakfast,  
lunch and refreshments

**Register early as we are limiting the  
number of registrations to increase  
interaction with the lecturer.**

CVG Member \$800.00+GST/PST  
Non-Member \$900.00+GST/PST

Registration Deadline: April 01 2008

**Please indicate whether you are  
registering for the Montreal or Toronto  
site.**

Mail registration form and fee payable to:

**Calibration & Validation Group  
2-3415 Dixie Road, Suite 402  
Mississauga, Ontario  
Canada, L4Y 4J6  
Attention: Chung Chow Chan, Ph.D.**

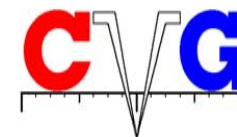
To register, contact us at:  
Phone: 514-236-4225 (Wei Garofolo)  
Website: www.cvg.ca  
e-mail: weigarofolo@cvg.ca

#### Instructor

This two-day workshop has been  
developed by Dr. Lloyd Snyder, the  
world-renowned HPLC pioneer  
teacher and author.

Tom Jupille has been a practicing  
chromatographer for more than 30  
years, during which he has written  
more than 30 papers on  
chromatography and related subjects.  
He worked primarily in gas  
chromatography in the late '60s,  
switching to thin-layer  
chromatography in the early '70s and  
then to HPLC and ion  
chromatography in late '70s. His  
career has focused on instrument and  
column development and user  
support, providing a broad foundation  
of practical experience to call on as  
an instructor.

Over the past 18 years, Tom Jupille  
has presented courses and seminars in  
the field of chromatography to more  
than 3000 students. In addition to  
teaching, he has been involved in the  
development and support of computer  
modeling techniques for  
chromatography method  
development. He is President of LC  
Resources, a Consulting Editor for  
LC/GC and Associate Director of the  
California Separation Science  
Society.

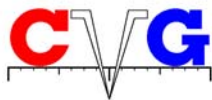


## ADVANCED HPLC METHOD DEVELOPMENT 2008

**Tom Jupille**



**April 28-29 2008 Toronto  
April 30-May 1 2008 Montreal**



## ADVANCED HPLC METHOD DEVELOPMENT

### Goals and Objectives

The purpose of this course is to teach you how recent developments in HPLC, combined with proven logic, provide the basis for a powerful new approach to systematic method development. The power of computer modeling will allow each participant to test the principles covered in the course on a series of real-world problems.

### Program

#### Who Should Attend

This is not a course for beginners. Each attendee should have at least one year of HPLC practical experience in HPLC laboratory and preferably have been involved in developing new methods or troubleshooting older ones.

This course is for chromatographers who want to develop better methods faster and less expensively ...and for those who want to know how to do the best possible chromatography.

### PROGRAM

#### Learn the modern approach to method development

- Define your objectives clearly. For example your objective may be:

- to separate and account for all impurities at 0.1% level

- to develop rugged and precise methods

- to have methods validated and accepted by regulatory bodies e.g. TPD and FDA

- Apply the best approach to separating mixtures that contain acids, bases, or isomers or complex samples

- Take advantage of recent improvements in column technology to assist you in your method development

#### Learn how to develop a satisfactory method

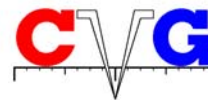
- Learn how to develop rugged methods that have superior separation repeatability.

- Design system suitability checks and validation

- Understand the factors controlling method precision.

#### Improve your troubleshooting skills

- Develop improved problem-solving techniques based on this logical approach to method development



## ADVANCED HPLC METHOD DEVELOPMENT

### COURSE OUTLINE

#### Day 1

Registration/continental breakfast

Introduction

Introduction to HPLC Method Development

Review of Separation Basics

Workshop: Varying %B and Column Conditions

Lunch

New Column Developments

Reversed-Phase HPLC for Neutral Samples

Workshop: Effects of Solvent Type on Separation

Workshop: Mixing Solvents

Reversed-phase HPLC of Ionic Samples

Workshop: Optimizing pH and %B for a Mixture of Acids and Bases

### COURSE OUTLINE

#### Day 2

Continental breakfast

Ion-Pair HPLC

Workshop: Ion-Pair Chromatography Gradient Elution

Workshop: Gradient Elution

Lunch

Experimental Aspects of Gradient Elution

Dealing with Special Samples

Improving Precision, and System Suitability

Discussion of student problems