Theoretical and Practical Aspects of Modern

Liquid Phase Separation Techniques

An advanced course on liquid chromatography and capillary electrophoresis

Presented by Dr. Gerard Rozing, ROZING.COM Consulting, Karlsruhe, Germany

Date 15:0017:00Nov. 10 Nov. 14 2014(Total 10 hours)

Location: Meeting Hall of Biotechnology Building

ABSTRACT:

This series of educational tutorials on UHPLC will address theoretical and practical aspects of modern liquid phase separation techniques for chemiscalltainalyistended to explain fundamental aspects of (U)HPLC, multidimensional HPLC and CLE-Matching dto provide participants with insights and knowledge to help them make informed choices when they are preparing to apply these techniques in the liarb practations.

LEARNING OBJECTIVES:

Deepen understanding both fundamental and practical aspects of (U)HPLEY/SV&DMC, LC CE-MS

Learn best usage of modern separation techniques

Guidelines for instrumentup at minimize performance losses and boost performance.

COURSE DETAILS:

(U)HPLC with following subjects

- o Definitions, basic aspects and fundamental equations of (U)HPLC
- o How to find the best column and conditions for (U)HPLC. Optimization in particular Kinetic Plot Method
- o Column technology for UHPLC. Totally porous vs. superficially porous particles
- o Instrumental aspects, practice and constraints of UHPLC Multidimensional HPLC

How to optimize your (U)HPLC separation time coupling with mass spectrometry:

do s and doot-do s

CE-MS with coaxial sheath flow interface, practical aspects, MalSdl new CE developments.

The course will be closed with a brief examination.

ABOUT THE AUTHOR:

Dr. Gerard Rozing did his underg**tedaa**d graduate Studies at University of Amsterdam from19 644976 and majored in Organic Chemistry and Chemical Engineering. In 1977 he was a postdoctoral researcher at the State University of Ghent, Belgium in synthetic organic chemistry and received **ptoto**ctoral training in analytical chemistry at University of Amsterdam, until 1979. Dr. Rozing joined Hewlettckard in Waldbronn, Germany as an R&D Chemist in 1979 and was later Group & Project Leader, R&D Section Manager responsible for HPLC @Jumn, HPL module and HPLC system development till 1999.

Since 2000 Dr. Rozing has been Agilent Technologies University Relations and External Scientific Collaborations Manager and was nominated Agilent Research Fell**o**w in 2006. Rozing retired from Agilent Technologies since September 1, 2012 and by swoork in the fields of liquid chromatography and capillary electrophoresis on freelance basis.

For further information, please contact Prof. Guowang Xu by 84379530.