

Multi-dimensional Chromatography

10 - 14 July 2017, 09:00 - 17:00, 5 days

University of Amsterdam, Science Park 904, Amsterdam

Content

This five-day course will teach you as much as possible about Multi-dimensional Chromatography and gives you a deeper insight in the different techniques. This course will consist of a combination of lectures and practicals.

Target audience

The course is taught in the framework of the MSc+ program for talents in Master education (University). Therefore, the course is well fit for employees at that level. The course is also aimed at PhD-students in analytical sciences or related fields who want to specialize in Chromatography (ANAC-advanced course). Finally, the course is suitable for graduates (BSc, MSc and PhD) interested in Chromatography and seeking to stimulate a fundamental approach.

Topics

Tentative program

	Multi-dimensional Chromatography				
	Monday, July 10th	Tuesday, July 11th	Wednesday, July 12th	Thursday, July 13th	Friday, July 14th
09:00		Retention-time modelling	Orthogonal separations	Multi-dimensional separations of proteins and peptides	GCxGC fundamentals
09:45	Welcome	Active Modulation	Data analysis		
10:30	COAST/ANAC; ALE	Break	Break	Break	Break
11:00	Introduction to the course	Retention-time modelling	Orthogonal separations	LCxLC of oil; Polyols	GCxGC for food science
11:45	Fundamentals of LCxLC	Active Modulation	Data analysis	Spatial chromatography	GCxGC for oil analysis
12:30	Break	Break	Break	Break	Break
13:30	Fundamentals of LCxLC	Optimization of LCxLC systems	LCxLC for polymer analysis	Designing and 3D-printing of separation devices	GCxGC for oil analysis
14:15	Modes of LC	Optimization of LCxLC separations			SFCxSFC
15:00	Break	Break	Break	Break	End
15:30	Considerations for MS detection in 1D- and 2D-LC	Pareto-optimization Exercise	LCxLC-MS and LC-IMS-MS of lipids	3D-printing of separation devices	
16:15		PIOTR Exercise			
17:00	End	End	BBQ/Picnic	End	

Lecturers

Prof. Dr. Ir. Peter Schoenmakers

Professor Analytical Chemistry at the University of Amsterdam and COAST Educational Director



Peter Schoenmakers obtained his PhD from the TU Delft in 1981. After a career in industry at Philips Research Labs (Eindhoven) and Shell (Amsterdam and Houston), he became full-time professor of polymer analysis and analytical chemistry at the University of Amsterdam in 2002. His current research focus is on comprehensive two-dimensional (liquid) chromatography and on applications of analytical chemistry in forensic science. He has published more than 200 peer-reviewed papers.

In 2009, he won the Eastern Analytical Award for Outstanding Achievements in Separation Science and in 2010 he received the Martin Gold Medal of the Chromatographic Society. In 2014, he received the prestigious Knox Medal.

Several co-workers, PhD-students and PostDocs will give lectures during this Summer Course.

Industrial speakers: Ron Peters (DSM), Hans-Gerd Janssen (Unilever/UvA), Jan Blomberg (Shell TCA).

At the end of the course

You will have gained a deeper understanding of Multi-dimensional Chromatography. You will have gained detailed knowledge in a number of key areas, and learnt about applications and recent developments.

Course duration and time investment

Course duration: 5 days from 09:00 till 17:00
Participant's investment: 5 days + optional self-study

Extra Information

This course is taught as a Summer Course in the MSc+ program and is taught every two years.

Course fees:

- €800 (ex. BTW/VAT) per day
- COAST members pay a reduced fee of €400 per day (ex. BTW/VAT) or use a wildcard
- ASTP / MSc+ students: Free

Special fees can be offered to PhD students and companies registering for three or more persons.

For up-to-date information about the course program visit our website at www.ti-coast.com/L3.

Please contact us for more information.

Registration

To register please visit: <http://www.ti-coast.com/registrationsummercourses2017> or fill out, sign and email the form attached to lifelonglearning@ti-coast.com.

Registration Form

Multi-dimensional Chromatography

Summer Course

10 - 14 July 2017, 5 days

University of Amsterdam, Science Park 904, Amsterdam

Name	
Organization	
Address	
Billing address (if different from above)	
Educational background	
Email address	
Phone number	
Dietary wishes	

I will attend on the following date(s):

- Day one: Monday 10 July
- Day two: Tuesday 11 July
- Day three: Wednesday 12 July
- Day four: Thursday 13 July
- Day five: Friday 14 July

Payment

- I will pay the full course fee of €800 per day (ex. BTW/VAT)
- I am a member of KNCV and will pay €600 per day (ex. BTW/VAT)
- I qualify for 50% discount, because my employer is a COAST participant, and will pay €400 per day (ex. BTW/VAT)
- I am a PhD student and will pay €400 per day (ex. BTW/VAT)
- I am a PhD student from a group participating in COAST and will pay €200 (ex. BTW/VAT) per day
- I have received a wildcard from: Therefore, I will follow this course for free (note: this person must receive a copy of your registration mail, to indicate approval)

Date:

Place:

Signature:

To register, please email the duly signed registration form to lifelonglearning@ti-coast.com

TI-COAST: A joint Private-Public initiative

Contact: Iris de Lange | T: +31 20 525 8393 | E: lifelonglearning@ti-coast.com | www.ti-coast.com

MSc+ Summer Course: Multi-dimensional Chromatography

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