

INVITATION TO JSB COURSES



JSB is an authorised partner of:



JSB OFFER A WIDE RANGE OF TRAINING COURSES BASED ON GC×GC

ONLY 30 MINUTES FROM AMSTERDAM



Who should attend?

GC×GC users from academia and industry who want to discover how GC×GC works and what benefits this increasingly popular and wide-spread technique might bring to their labs. GC×GC users who wish to consolidate their theoretical understanding or learn on how to make the best of their system with dedicated method optimization and troubleshooting sessions.

Price: € 1.250

a day including lunch

For more information:
WWW.GO-JSB.COM



ABOUT THE TRAINER



The training will be performed by our application and demo lab manager Dr. Daniela Peroni or one of our other specialists. Dr. Peroni has a wide experience of using the different type of GC×GC set ups and has published many application notes in the last couple of years relating to GC×GC. Dr. Peroni did her thesis at the University of Amsterdam under the lead of Prof. Hans-Gerd Janssen. After that Dr. Peroni joined Shell followed shortly by JSB as application specialist.

Dr. Peroni will be performing the GC×GC training in house within the GC×GC centre of Excellence in Lelystad. In our demo laboratory we have access to the following hardware and software solutions for GC×GC:

- GC×GC flow modulation
- GC×GC reversed flow modulation
- GC×GC thermal modulation ZX2 version
- GC×GC FID
- GC×GC MSD HES source
- GC×GC TOF MS
- GC×GC QTOFMS
- GC Image software package

The JSB offices and laboratory are close to Amsterdam, only 30 minutes away from the city centre. This means that Lelystad is easy to access by both plane and car. We can also help in organising your travel arrangements and arrange your hotel accomodation in Lelystad City Centre. So please let us know if we can be of assistance to you.

AGENDA FOR GC×GC TRAINING COURSES

You can choose from the days mentioned below, any combination is possible. Please let us know which days you would be interested in.

Code DP1

1-DAY TRAINING COURSE ON THE BASICS OF GC×GC

Theory, principles of operation, hardware

- Introduction to GC×GC: theory and principle of operation
- Agilent Flow modulators
- Zoex loop thermal modulators
- Practical session: set-up of the loop modulator
- Different detectors and their compatibility
- Overview of GC×GC possibilities

Code DP2

1-DAY GC×GC USER TRAINING

Method development, optimization and troubleshooting

- The chemical logic of 2D plots
- Select and optimize your column set
- Guideline to setting carrier gas flow, oven temperature program and modulation
- Optimizing MS detection
- Practical session: set-up of a GC×GC run and evaluation of raw data
- Troubleshooting

Code DP3

1-DAY GC×GC-QTOF USER TRAINING

Principles of operation, practical aspects and software features

- Introduction to High Resolution Mass Spectrometry (HRMS) and accurate mass
- The Agilent QTOF: principles of operation
- Practical aspects and tips for method optimization with GC×GC-QTOF
- Familiarization with the specific features of *GC Image HR*
- Practical session: *GC Image HR*

Code DP4

1-DAY TRAINING COURSE ON GC IMAGE SOFTWARE

Basic 2D data processing

- Data visualization: from raw data to 2D contour plot and 3D view
- Familiarization with basic features and configuration settings
- MS features and library search
- Templates
- Methods and reports
- Practical session

Code DP5

2-DAY TRAINING COURSE ON GC IMAGE SOFTWARE

Advanced 2D data processing, including automation and sample comparison

- Data visualization: from raw data to 2D contour plot and 3D view
- Familiarization with basic features and configuration settings
- MS features and library search
- Templates
- Methods and reports
- Advances features and tools
- Quantification
- Introduction to *GC Project* - batch processing and calibration
- Introduction to *Image Investigator* - samples comparison
- Practical sessions: *GC Image*, *GC Project*, *Image Investigator*

BUSINESS AREAS FOR GCxGC

- Petrochemical
- Environmental
- Food and Flavour
- Life Sciences
- Chemical
- Industrial
- Clinical



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