



# Training & Seminars 2017

Advances in polymer characterization

> 30 years experience in GPC/SEC customer training

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**Location:** Mainz, Germany  
**Date:** 22. - 23.06.2017

**Course fee:** € 1.490,-+  
VAT@19%  
(per participant)

€ 1.100,-  
+VAT@19%  
(per participant,  
Universities and  
Institutes)

## Course 899-0025

### Hands-on viscometry/light scattering training

This training course covers all aspects for working with advanced detection methods and instrumentation for the determination of molar masses, sizes, and structures of macromolecules and biopolymers in solution.

Lectures providing the theoretical background of (multi angle) light scattering and viscometry will be followed by hands-on training sessions on practical aspects and data processing.

Tutored discussions in small workgroups and a trouble shooting session ensure that all aspects of molar mass sensitive detection are completely covered. Each group has its own tutor, an experienced polymer chemist, to discuss also special applications and questions.

### Who should attend?

- All scientists working with techniques to determine the molar mass and the size of polymers in solution.
- Scientists interested in adding molar mass sensitive detection to their equipment.
- Users of light scattering and viscometry detectors (triple detectors) independent on the brand.

## 1.2 PSS WinGPC Software

**Location:** Mainz, Germany  
**Date:** 20.11.2017

**Course fee:** € 690,- +  
VAT@19%

## Course 899-0031

### Reliable data evaluation with the WinGPC modules viscometry and light scattering

This software training course is designed for present users of the WinGPC software modules viscometry, single angle light scattering, multi angle light scattering and for future clients planning to implement light scattering, viscometry or Triple detection.

It offers lectures and practical PC sessions given by an experienced polymer chemist with extensive knowledge about chromatography, WinGPC Unity and the methods described above. Participants should be familiar with the basic WinGPC features and functions.

Previous attendance of the WinGPC UniChrom software training course (P/N 899-0029) is recommended, but not required. For clients interested in a hands-on training including live measurements with the instruments, PSS offers an alternative 2-day viscometry/light scattering hands-on training (P/N 899-0025).

After successful participation each attendee should be able

- to identify the best method for advanced molar mass determination of samples
- to determine important instrument and system constants
- to achieve reliable results from viscometers, light scattering detectors and Triple detectors
- to recognize and read molar mass results obtained with molar mass sensitive detectors correctly
- to evaluate data faster and with higher confidence

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**Location:** Mainz, Germany  
**Date:** 21.11.2017

**Course 899-0029**

**Use and optimization of WinGPC UniChrom MCDS**

This software training course is designed to give users of the Macromolecular Chromatography Data System (MCDS) WinGPC a strong introduction to make a targeted and efficient use in the lab. It offers lectures and a practical session given by an experienced polymer chemist with extensive knowledge about chromatography and WinGPC.

**Course fee:** € 690,-+  
VAT@19%

After successful participation each attendee should be able

- to use WinGPC UniChrom basic functions efficiently
- to identify and apply WinGPC features for advanced analysis
- to optimize the workflow in the lab
- to obtain and qualify results

**Location:** Mainz, Germany  
**Date:** 22.11.2017

**Course 899-0032**

**Learn convenient ChromPilot instrument control**

This software training course is designed for present users of the WinGPC UniChrom ChromPilot and for future clients interested in implementing a convenient and cost effective infrastructure.

It offers lectures and practical PC sessions given by an experienced polymer chemist with extensive knowledge about chromatography and WinGPC. Participants should be familiar with the basic WinGPC features and functions. Previous attendance of the WinGPC UniChrom software training course (P/N 899-0029) is recommended, but not required.

**Course fee:** € 690,-+  
VAT@19%

After successful participation each attendee should be able

- to administrate the ChromPilot
- to program sample sequences efficiently
- to implement intelligent and cost saving measures

**Location:** Mainz, Germany  
**Date:** 23.11.2017

**Course 899-0030**

**Reporting with the WinGPC Report Designer**

This software training course is designed for present users of the WinGPC ReportDesigner and for future clients planning to implement this versatile tool.

It offers lectures and a practical session given by an experienced polymer chemist with extensive knowledge about chromatography, WinGPC and the ReportDesigner.

**Course fee:** € 690,-+  
VAT@19%

After successful participation each attendee should be able to create layouts (1 or more pages)

- with the company's choice of content, layout and style
- with meaningful result tables, figures and on-line calculated quality criteria
- with the optimum output format to support the company's workflow requirements.

**Location:** Mainz, Germany

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**Date:** 24.11.2017

### Course 899-0033

#### Ensure WinGPC UniChrom traceability and compliance

**Course fee:** € 690,-+  
VAT@19%

This software training course is designed for WinGPC Compliance Pack administrators, IT professionals responsible for CSV (computer system validation), and users responsible for validation. It offers lectures and practical PC sessions given by an experienced polymer chemist with extensive knowledge about chromatography and WinGPC. Participants should be familiar with the basic WinGPC features and functions. Previous attendance of the WinGPC UniChrom software training course (P/N 899-0029) is recommended, but not required.

After successful participation each attendee should be able

- to administrate the WinGPC Compliance Pack
- to identify and apply settings reflecting the company policy
- to control audit trails
- to set user level rights
- to perform meaningful IQ/OQ for GPC/SEC systems

## 2) In-house training

**Location:** upon agreement  
**Dates:** upon agreement

**Course:** 899-0005  
**Course fee:** € 1510,-  
(1-4 persons)

**Course:** 899-0014  
**Course fee:** € 2.600,-  
(5-9 persons)

Prices excl. Travel expenses.

Company seminars and seminars covering several days upon agreement

### PSS GPC in-house training

1-day on-site training with an experienced polymer chemist

#### Potential subjects:

- key concepts in polymer synthesis and liquid chromatography techniques (GPC/SEC/HPLC)
- fundamentals of GPC/SEC, separation mechanism, objectives
- experimental set-up parameters
- modern GPC/SEC column trends, column selection
- best practice in GPC/SEC method development
- instrument qualifications
- calibration methods
- how to be more successful and productive in GPC/SEC
- novel approaches in copolymer analysis, multi detection and coupling with hyphenated techniques
- tips&tricks for WinGPC (Unity) software
- tips&tricks for applications

All PSS in-house courses are completely customized and organized in close cooperation with the client.

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Programs, registration forms and additional information: see [www.pss-polymer.com](http://www.pss-polymer.com) or

phone: +49 (0)6131-96239-0  
E-mail: [info@pss-polymer.com](mailto:info@pss-polymer.com)  
Fax: +49 (0)6131-96239-11

Please send more information:

- Course 899-0022 GPC/SEC Training Course
- Course 899-0025 Hands-on viscometry/light scattering training
  
- PSS GPC in-house training: please contact me!
- WinGPC Refresher
- Educational Webinars

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Department: \_\_\_\_\_  
Address \_\_\_\_\_  
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Tel \_\_\_\_\_  
Fax \_\_\_\_\_  
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