

## Reliable data evaluation with the viscometry and light scattering WinGPC modules (P/N 899-0031)

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### Description

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 using 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 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 measurements with the instruments itself, 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

### Program

#### 09.15 Welcome and General Information

#### 09.30 Advanced characterization with molar mass sensitive detectors

Theoretical background light scattering and viscometry  
Comparison light scattering/viscometry  
Results and additional information from molar mass sensitive detectors

#### 10.15 Introduction to WinGPC UniChrom

WinGPC UniChrom philosophy  
Data acquisition from viscometers, light scattering detectors, triple detectors  
WinGPC method setup

#### 10.45 Coffee break

#### 11.15 Practical Session part I

Hands-on training with 2 people per workstation:  
Enter and edit detectors, create a WinGPC acquisition and evaluation method

#### 11.15 Influence of system parameters

Theoretical background: system parameters  
Determination of slice concentration  
Determination of inter detector delay,  $dn/dc$ , detector constants  
WinGPC evaluation options

#### 12.45 Lunch

#### 13.45 Practical Session part II

Hands-on training with 2 people per workstation:  
Determination of system parameters, universal calibration

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- 15.15 Coffee break**
- 15.45 System validation**  
Influence of system parameters on results  
Detector validation  
Trouble shooting
- 16.15 Practical Session part III**  
Hands-on training with 2 people per workstation:  
additional sample evaluation, optimization, result discussion
- ca. 17.00 Course review and end of training course**

#### **Registration and Organization**

Complete the PSS registration form and send/fax the form to:

PSS Polymer Standards Service GmbH, POB 3368, D-55023 Mainz

Fax: +49-6131-96239-11

Tel.: +49-6131-96239-0

Email: info@polymer.de

#### **Participation Fee: EUR 490.- plus VAT @ 19%**

The participation fee includes lecture and practical session, course materials, coffee break catering, lunch and dinner on Thursday evening.

#### **Cancellation**

No penalty for cancellations up to one week prior to course date. Cancellations received within one week of the course starting date will result on a late fee **EUR 49.- plus VAT @ 19%** (10%). The complete participation fee will be charged to no-show participants.

#### **Option:**

**Accommodation Novotel Mainz: EUR 130.- plus VAT @ 19% per night** (when booked through PSS GmbH)

You will be responsible for payment directly to the hotel upon departure.

#### **Venue**

PSS GmbH, In der Dalheimer Wiese 5, 55120 Mainz, Germany

Mainz is approx. 35 km away from Frankfurt Airport and can be reached easily using the public transport system. Please contact us directly for further assistance.