



## ***Light scattering and viscometry hands-on training: successful work with molar mass sensitive detectors***

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- 14.15**      **Practical Session, Part 1**
- off-line light scattering and data analysis with Zimm plots, analysis of 2 samples
  - setup of a GPC/SEC instrument with advanced detection, sample preparation for universal calibration and instrument setup and qualification (samples should be measured over night and processed the next day)
  - off-line dn/dc determination
- with Coffee break**
- 18.00**      **End of Practical Session, Part 1**
- 18.00**      **Visit C.A. Kupferberg & Cie., Mainz: Production and tasting sparkling wine (optional)**
- 20.30**      **Dinner**

### **Tuesday**

- 09.00**      **Qualified analysis of light scattering and viscometry data, Part 1**
- determination of the required parameters
  - methods for the determination of slice concentration
  - WinGPC evaluation options and result presentation for light scattering and viscometry
- 10.30**      **Coffee break**
- 10.45**      **Qualified analysis of light scattering and viscometry data, Part 2**
- precision of results and error propagation
  - data consistency check and trouble shooting
- 12.15**      **Lunch**
- 14.00**      **Practical Session, Part 2**
- determination of the parameters for a proper instrument setup
  - evaluation of the unknown samples
  - discussion of the results and comparison of the methods
- with Coffee break**
- 17.00**      **Questions and answers**
- Quiz with questions dealing with the seminar topics
  - Round table discussion for applications and additional results
- 18.00**      **End of Course and Farewell**

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### **Registration and Organisation**

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 1400.- plus VAT @ 19%**

The participation fee includes lecture and practical session, and 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 140.- plus VAT @ 19%** (10%). The complete participation fee will be charged to no-show participants.

### **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**

Novotel Hotel Mainz, Augustusstraße 6, 55131 Mainz

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.

## PSS Seminar & Course Registration form

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Register per Fax: +49-(0)6131-9623911

### Registration

#### **PSS GPC/SEC Training Course: Theory and Praxis (P/N 899-0022)**

- 24.-25. March 2011**                       **22.-23. September 2011**

**Participation Fee:** EUR 1.290.- plus VAT @ 19% (per participant)

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#### **PSS Hands-on viscometry/light scattering training (P/N 899-0025)**

- 30. June - 01. July 2011**

Detector Type:                      Viscometer: \_\_\_\_\_      Light scattering detector: \_\_\_\_\_

**Participation Fee:** EUR 1.400.- plus VAT @ 19% (per participant)

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#### **WinGPC Unity Software Training (P/N 899-0029 to 899-0033)**

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|---|--|
| Unity ReportDesigner <sup>plus</sup>      | <input type="checkbox"/> <b>05. September 2011</b> |
| PSS WinGPC Unity                          | <input type="checkbox"/> <b>06. September 2011</b> |
| Unity Light Scattering/Viscometry/Triple* | <input type="checkbox"/> <b>07. September 2011</b> |
| Unity SystemPilot                         | <input type="checkbox"/> <b>08. September 2011</b> |
| Unity Compliance Pack                     | <input type="checkbox"/> <b>09. September 2011</b> |

\*Detector Type:                       Light Scattering, Brand: \_\_\_\_\_  
 Viscometer, Brand: \_\_\_\_\_

**Participation Fee:** EUR 490.- plus VAT @ 19% (per participant and day)

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#### **PSS Column Usermeeting**

- 08. November 2011**

**Participation Fee:** EUR 490.- plus VAT @ 19% (per participant, Industry)  
EUR 100.- plus VAT @ 19% (per participant, Universities and Institutes)

## PSS Seminar & Course Registration form

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### Accommodation (P/N 899-0002)

A block of rooms has been reserved for your convenience; the nightly rate of each single room is 130.- EUR plus VAT, breakfast included. You will be responsible for payment directly to the hotel upon departure.

Novotel, Mainz (Augustusstraße 6, 55131 Mainz).

Arrival date: \_\_\_\_\_ Departure date: \_\_\_\_\_

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### Participant:

Name: ..... Title: .....

Company : ..... Department: .....

Street: ..... City, State: .....

Tel.: ..... e-mail: .....

Invoice recipient:..... Date/Signature: .....

VAT number:..... **(EU customers only)**

### 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 of 10% of the course fee. The complete participation fee will be charged to no-show participants.