



GPC Training Course

June 14th-15th, 2022

This training course provides lectures on the theory and practice of modern GPC/SEC together with time for specific questions to be addressed. In addition, an overview on current developments in the areas of multi-detection (light scattering, viscometry and other techniques); hyphenation techniques (GPC-NMR and GPC-MS) as well as 2D chromatography will be presented.

Topics Covered

<u>Day 1</u>	<u>Day 2</u>
<ul style="list-style-type: none">Theoretical background: polymersTheoretical background: GPC/SEC vs HPLCGPC/SEC separation mechanismSample preparationRetention, plate count, resolution, efficiencyMolar mass distribution; averages, moments, meaningGPC/SEC instruments and systemsColumn selection and method optimizationIncreasing accuracy and reproducibilityInfluence of analytical conditionsData acquisitionData interpretation	<p>Theoretical background: Viscometry and light scattering MW determination with viscometry and light scattering GPC calibration methods (1)</p> <ul style="list-style-type: none">Calibration with narrow MW standardsUniversal CalibrationBroad CalibrationIntegral calibrationCopolymer calibration options <p>Chromatographic coupling for complex polymer analysis</p> <ul style="list-style-type: none">Copolymer analysis with dual detectionIdentification with GPC-FTIR/UV/MS/NMR2-D GPC; hyphenation of HPLC with GPC
Q&A (1)	Q&A (2)

Information

Dates**

June 14th and 15th, 2022

Location

PSS Facility in Amherst, MA

Seminar Fee

\$2,495

Background

Two days of instruction on a variety of technical and theoretical topics as well as Q&A

Q&A

Attendees are encouraged to bring specific questions regarding their application

Course slides will be available on a USB stick

Course fee includes brief breakfast and full lunch

Registration

If you would like to register for the seminar or if you have questions, please contact our office at (413) 835-0265 or pssusa@pss-polymer.com

**** The course will be held with a minimum of 5 attendees. Please register by June 3rd, 2022
All topics are included but not limited to. Topics subject to change**