

Latest Concepts and Technologies in Advanced Characterization of Polymers, Proteins, and Biomaterials

Seminar Presented by: Amer Ebied
SEC/GPC Specialist

- Polymer Separation
- Absolute Molecular Weight
- Size Distribution
- Hydrodynamic Size (R_h)
- Conformation
- Chain Folding and Unfolding
- Branching
- Copolymer Composition

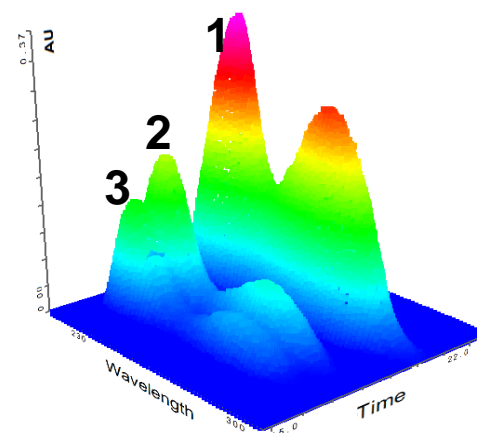
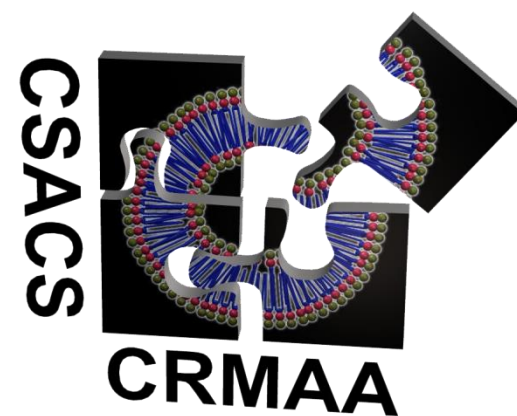
Seminar Location: Otto Maass Chemistry Bld. OM428

Date: Tuesday Oct 27

Slot 1: 11:00am – 12:00pm

Slot 2: 1:00pm-2:00pm

Contact: Eric Landry (eric@polyanalytik.com)



Free Lunch!
12:00-1:00pm

ABSTRACT

Size Exclusion Chromatography (SEC), also known as Gel Permeation Chromatography (GPC), has emerged as one of the most powerful tools in the characterization of macromolecules (synthetic and natural polymers), proteins, and biomaterials. Advanced Tetra Detection GPC/SEC systems have outstanding macromolecular characterization capabilities due to their multi-detectors incorporating refractive index (RI) detector, multi-angle light scattering (MALS) detector, digital differential viscometer, and photodiode array (UV-vis PDA) detector. This technique provides multiple molecular characteristics of a sample from a single injection from absolute molecular weights and molecular weight distribution (M_w/M_n) to chain conformation and structure. The seminar provides useful education on the instrumentation behind Advanced Tetra Detection GPC/SEC along with various case studies on synthetic polymers (PE, PVC, PEG, etc.), proteins and peptides (PEGylated-proteins, glycoproteins, antigen vaccines), biodegradable materials (PLA, PLGA, etc.), and biomaterials (chitosan, hyaluronic acid, lignin, cellulose, starch, etc.).

INSTRUMENT DEMO

The OMNISEC system from Malvern is the most advanced Tetra-Detection GPC/SEC platform on the market and will be demonstrated to run samples for you in aqueous conditions. The system features fully integrated detectors housed in temperature controlled compartment with cooling capability, temperature controlled and refrigerated autosampler with zero overhead sample loss, and unmatched detectors' sensitivities.

Demo Location: Otto Maass Chemistry Bld. OM414

Date: Tuesday Oct 27 at 1:00pm – 5:00pm

*Free Sample
Analysis!*



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