

Polymers Revealed: Light Scattering Tools for Absolute Macromolecular Characterization

Kelly 310, Friday, September 22, 2:30PM

Analytical techniques based on multi-angle and dynamic light scattering address some key challenges in analytical polymer chemistry—from characterization of newly synthesized materials to monitoring degradation and product performance lifetimes. Light scattering methodologies enable *absolute* quantitation of critical polymer and particle attributes, including

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|-------------------------|----------------------|------------------------------|
| - <i>molar mass</i> | - <i>size</i> | - <i>branching/structure</i> |
| - <i>polydispersity</i> | - <i>composition</i> | - <i>interactions</i> |

This seminar will review light scattering theory, technology and instrumentation, and will present select examples illustrating how Wyatt's light scattering solutions facilitate rapid and effective characterization of polymers and nanoparticles.

Questions that will be answered:

- How do MALS and DLS provide valuable data for advanced analysis of polymers & copolymers?
- How do you evaluate light scattering detectors?
- What benefits do Viscometry and Field Flow Fractionation add to a MALS system?
- What is the true meaning of life?

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Andy Meyer completed his Ph.D. in Applied Science / Polymer Chemistry at the College of William and Mary in Virginia, studying under Professor David Kranbuehl. He joined Wyatt Technology in 2001, serving for several years as an Applications Scientist, then as Dean of Wyatt's "Light Scattering University," and as Director of Customer Service & Support. Currently he is responsible for customer support in Wyatt's Southeast Region, introducing Wyatt's innovative technologies, determining which instruments best match customer requirements, and ensuring complete customer satisfaction and success with all of Wyatt's products throughout the region.



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