Particle Characterization Seminar

Theory of Laser Diffraction and Dynamic Image Analysis

Thursday, August 27, 2026

09:00 a.m.	**Welcome & Introduction** ▪ Who was Anton Paar? ▪ Overview of the seminar objectives ▪ Icebreaker activity: Share one interesting fact about particle sizing
09:30 a.m.	**Fundamentals of Light Scattering** ▪ Rayleigh Scattering ▪ Mie Scattering ▪ Fraunhofer Diffraction
09:45 a.m.	**Coffee Break**
10:15 a.m.	**Particle Size Concepts** ▪ Why size matters? ▪ Equivalent spheres ▪ Why shape matters?
11:00 a.m.	**Laser Diffraction & Dynamic Image Analysis** ▪ Size range and instrumentation ▪ Advantageous vs. disadvantageous ▪ Case studies: Examples of different applications and results
11:45 a.m.	**Best Practices** ▪ Sampling ▪ ISO Standards overview
12:30 p.m.	**Lunch**
02:00 p.m.	**Hands-On Experiments: Litesizer DIF & Litesizer DIA** ▪ Group experiments: Analysis on one sample to evaluate the difference between the two techniques ▪ Debrief: Key observations and insights
04:00 p.m.	**Coffee Break**
04:15 p.m.	**Hands-On Experiments: Litesizer DIA & Advanced Morphology Studies** ▪ Group experiments: Focus on dry samples ▪ Debrief: Share findings
04:30 p.m.	**Closing Remarks** ▪ Summary of key takeaways ▪ Feedback session: What did participants find most valuable?
05:00 p.m.	**End of the seminar**