Particle Characterization Seminar



Theory of Laser Diffraction and Dynamic Image Analysis

Thursday February 27, 2025

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 spheresWhy 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?