SR-DLS Fundamentals and NanoFlowSizer Applications: Towards Automated Size-Based Process Control.

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11:00 – 11:45 AM (CEST)

For registration, please complete the form available at this link

TOPIC / ABSTRACT

Size is a critical quality attribute for many nanoparticle and biotherapeutic formulations, yet routine measurement is often slow, manual, and poorly suited to real time decision making. **This webinar introduces the fundamentals of nanoparticle size and size distribution analysis by SR-DLS** (Spatially Resolved Dynamic Light Scattering), explaining how it differs from conventional DLS. We will cover the core measurement principle, key outputs (including Z-average, Particle Size Distributions and indicators of polydispersity), and practical considerations such as concentration windows, compatible flow rates and process integration.

Building on these basics, **the session will present typical use cases enabled by the NanoFlowSizer**, from rapid at-line screening to fully integrated in-line process control. We will also discuss how automated workflows reduce operator variability and increase throughput, enabling consistent trend tracking across development and manufacturing.

Finally, **the webinar will highlight how integrating size monitoring into automated process control can transform quality management**: continuous or at line measurements can detect drift early, trigger feedback or feedforward actions, and support closed loop control strategies. Attendees will leave with a clear understanding of when SR-DLS is the right tool, how the NanoFlowSizer is applied in practice, and how nanoparticle size data can be converted into actionable control signals for more reliable, scalable processes.

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