Realtime Nanoparticle Measurements

an introduction to PAT4Nano:



solving industrial needs using innovative solutions.

Tuesday 24th of November 2020 From 3PM (UTC)

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The PAT4Nano consortium is pleased to host this introductory webinar about online nanoparticle measurements and multi-PAT solutions for nanomaterial production. The aim of this web conference is to bring together scientists, researchers, engineers, and industry to share their experience, gain and evaluate emerging technologies in nanosuspension and nanoparticle analysis across the globe.



About PAT4Nano: PAT4Nano offers an integrated, end user-driven approach to develop and deploy different, yet complementary particle size measurement technologies for in- and online real-time monitoring. These will quantify particle size distribution and chemical composition in nanosuspensions. PAT4Nano will focus on applications in pharmaceuticals, inks/pigments, and materials for catalysis, batteries, and glass manufacture. Continuous, rapid, and reliable real-time data from PAT4Nano tools will provide more comprehensive process information than current offline measurements enabling manufacturers to obtain insights into the fundamental dynamics of nanoparticle-based processes.

Realtime Nanoparticle Measurements an introduction to PAT4Nano: solving industrial needs using innovative solutions.



Ad Gerich, IP-LSP

LASER DIFFRACTION FROM THE MICRON TO THE NANO SCALE

4:25 to 4:45

Steve Ward-Smith / Tina Rowney, Malvern Panalytical



development and implementation of many PAT projects in R&D and commercial manufacturing and is now general manager of InProcess-LSP.

Dr Steve Ward-Smith has been with Malvern Panalytical for over 25 years in a variety of roles but is now part of the pharmaceutical and food sector looking after large global customers. He is also part of ISOTC24 SC4 which covers standardisation in materials characterisation methods and chair of ISO TC281 in Fine Bubble Technology.

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	Time	Online Nanoparticle Measurements: an introduction to PAT4Nano.	
	4:50 to 5:00	Virtual Coffee break	
1	Future online nanoparticle technologies		
	5:00 to 5:20	UNPS – ULTRASONIC NANO PARTICLE SIZER BY MEANS OF ONLINE ULTRASOUND SPECTROSCOPY Maurits van der Heiden, TNO	Maurits van der Heiden currently is Senior System Engineer at the Acoustics and Sonar department of TNO. Van der Heiden has an experience of more than 25 years in the development of ultrasonic and optical instrumentation. He has a prime focus on the development of ultrasonic measurement equipment for industrial and medical applications. These innovative measurement concepts are focusing on extreme conditions (extremely small, extremely sensitive, high pressure/temperature).
1	5:25 to 5:45	INLINE CROSS- CORRELATION DYNAMIC LIGHT SCATTERING Christoph Janzen, Fraunhofer	Dr. Christoph Janzen has been working as a scientific employee at the Fraunhofer Institute for Laser Technology since 2001. He specialized in the field of Laser measurement technology and has been working as a project leader and a group leader in several scientific projects from fundamental research to applied industrial research with partners from industry and research.
b	Webinar close		
	5:50 to 6:00	Closing Remarks and further information. Alan Ryder, Nanoscale Biophotonics Laboratory, NUI Galway	
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Contact: <u>pat4nano@nuiqalway.ie</u> Website: <u>www.pat4nano.com</u> LinkedIn: <u>https://www.linkedin.com/groups/8933965/</u>			
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