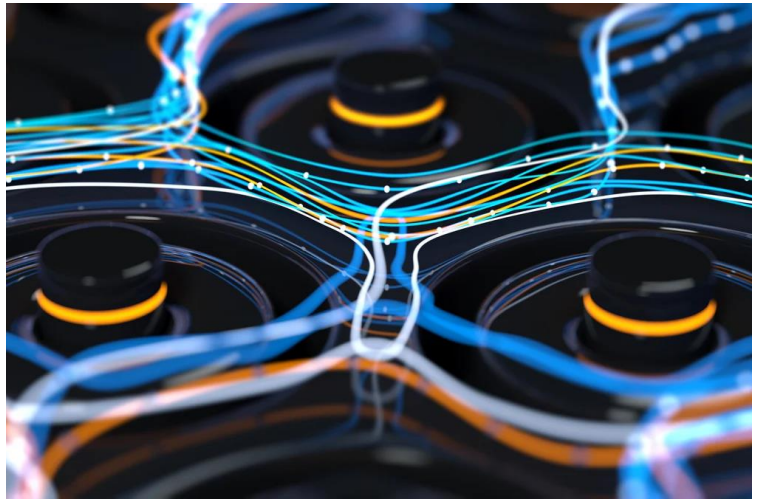
Event

Digital Precision: Lab Self-Optimisation for Nanoparticle Manufacturing

15:50

Tuesday 6th February 2024
09.00 – 17.00

CPI, Nigel Perry Building, 1 Union Square, Darlington, DL1 1GL



Agenda

	DETAILS
09:00	Arrival, registration, and refreshments.
09:45	Welcome and introduction (Dr Nicholas Warren, University of Leeds)
10:00	Dr Stephen Knox and Dr Roisin O'Connell - Self-Optimising Nanoscale Manufacturing Platforms for Achieving Multiscale Precision
11:00	Juliana Haggerty, Head of Centre of Excellence, CPI - An introduction to the Intracellular Drug Delivery Centre
11:15	Coffee break & Nanoman demonstration: an opportunity to see the technology developed
11:30	Prof. Kim Jelfs, Professor in Computational Materials Chemistry, Imperial College London - Combining computation and experiment to accelerate materials discovery
12:15	Prof. John de Mello, Head of NTNU Nano, Norwegian University of Science and Technology - Automated Flow Reactors for the Controlled Materials Synthesis
13:00	Frando van der Pas, Director of Sales, InProcess-LSP
13:10	Lunch and poster session, plus live demo of the making of lipid nanoparticles through commercial and conventional mixers
14:00	Dr. Julien Nicolas, CNRS Research Director, University Paris-Saclay - Degradable vinyl polymer nanoparticles
14:30	Dr Tom McDonald, Head of Environmental Sustainability and Engagement, The University of Manchester - Designing lipid nanoparticles: Controlling particle formation, crystallinity and internal environment
15:00	Dr. Max Besenhard, Lecturer in Digital Manufacturing of Advanced Materials, University College London - Nanoparticle Optimization via Novel Reactors: From the Beaker to Machine Learning
15:30	Coffee break and Nanoman demonstration: an opportunity to see the technology developed.
16:15	Panel session - The impact of Artificial intelligence on the Nanoparticle Discovery Pipeline: Challenges and Opportunities
17:00	Event close

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