

Workshop on Scale-up and Standardization for Photonic Quantum Technology

Day 1 (October 30th)

All sessions held in the auditorium. Posters and buffet in the foyer

Time	Session	Title
11:30	Registration	NPL Foyer/main entrance. Please collect namebadges.
12:00	Lunch	<i>Poster presenters to put up posters</i>
13:00	Opening	Patrick Parkinson (Manchester): <i>Welcome, context setting</i> Fernando Castro (NPL): <i>Formal opening and welcome</i>
13:20	Session 1 <i>Chair:</i> <i>Sebastian Wood (NPL)</i>	1A: Jake Bulmer (PsiQuantum) <i>Photonic universal fault tolerant quantum computing</i> 1B: Maddison Coke (Manchester) <i>Nanoscale Advanced Materials Engineering Using Focused Ion Beams</i> 1C: Charlotte Ovenden (Aegiq) <i>Single photon sources: applications and scaling</i> 1D: Anthony Bennet (Cardiff) <i>Compound Semiconductor Quantum Light Sources</i> 1E: Elisa Sala (Sheffield/National Epitaxy Facility) <i>Growth and characterization of InAs/InP QDs as efficient light emitters at the telecom C-band</i> 1F: Haotian Zeng (UCL) <i>MBE Growth of branched-nanowire quantum dots</i>
15:00	Coffee	
15:30	Session 2 <i>Chair:</i> <i>Patrick Parkinson (Manchester)</i>	2A: Brian Gerardot (Heriot-Watt) <i>Probing electronic and photonic interactions in quantum materials</i> 2B: Philip Dolan (NuQuantum) <i>Datacentre-scale entanglement distribution</i> 2C: Nate Huang (NPL) <i>Advanced probing of light-matter interaction at nanoscale for quantum optoelectronics</i> 2D: Luca Sapienza (Cambridge) <i>Integrated quantum photonics: towards scalable single-photon technology</i> 2E: Josh Nunn (ORCA Computing) <i>ORCA Computing: The route from NISQ processors to fault-tolerance</i>
17:15	Posters, Stalls, Drinks	Contributed posters, supporter stalls, and served drinks
18:00	Buffet	
19:00	Close	

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Day 2 (October 31st)

All sessions held in the auditorium. Breakout sessions to be announced.

Time	Session	Title
08:30	Breakfast	Coffee/Pastries
08:50	Welcome	
09:00	Session 3 <i>Chair:</i> <i>Denise Powell (CSC)</i>	3A: Milos Toth (UTS Sydney) <i>Integrated quantum photonics using layered materials</i> 3B: Kolja Haberland (Laytec), Iwan Davies (IQE) <i>The benefit of in-situ metrology for process-control during front-end semiconductor manufacturing of photonic quantum devices</i> 3C: Martin Ebert (CORNERSTONE/Southampton) <i>Challenges linked with transitioning nanofabrication to larger substrates</i> 3D: Friederike Jöhlinger (Wave Photonics) <i>Streamlining Photonic Chip Design</i> 3E: Yameng Cao (NPL) <i>Scaling-up imaging-metrology for materials with quantum and photonic applications</i>
10:45	Coffee	
11:15	Session 4 <i>Chair:</i> <i>Yameng Cao (NPL)</i>	4A: Rosemary Scowen (Toshiba) <i>Quantum sources and detectors for quantum key distribution applications</i> 4B: Annika Moslein (Quantum Dice) <i>Scaling Quantum Randomness</i> 4C: Sam Johnson (Innovate UK) <i>Commercialising Photonic Quantum Technologies in the UK</i> 4D: Gavin Jones (BSI) <i>Standards Development for Quantum Technologies</i>
12:30	Breakout discussion Venue TBA	Workshop breakout sessions 5A: Single photon sources (Fabrication, Characterization) 5B: Single Photons (Integration and Devices) 5C: Quantum Computing Applications
13:20	Close	Summary, follow-up
13:30	Lunch	
14:30	End	