Joined online workshop

Towards a European Strategy on Quantum Photonics Integrated Circuits

Agenda

March 1st, 2021

	Topic
10.00	***Setting the scene: Welcome & Aim of the Workshop*** **Mike Wale,** Chair of QPIC Focus Group, Representative of Photonics 21, Eindhoven University of Technology **Eleni Diamanti**, Chair of QPIC Focus Group, Representative of the Quantum Flagship, Sorbonne University **Werner Steinhögl**, DG Connect, A.3: Microelectronics and Photonics Industry **Gustav Kalbe**, DG Connect, C.2: High Performance Computing & Quantum Technology
I. Strategic approach on QPICs in Europe	
10.15	***Presentation of the Draft Position Paper of the Joint Focus Group on Quantum PICs*** **Klaus Jöns**, Paderborn University (with support by **Emanuele Pelucchi** and **Georgios Fagas**, Tyndall National Institute)
10.45	***Discussion – how to build a European infrastructure in QPICs, critical elements needed?*** Moderated by **Mike Wale**, Eindhoven University of Technology • Opening statements ○ **Jelmer Renema**, QuiX ○ **Michael Förtsch**, Q.ant ○ **Andrew Lord**, BT ○ **Fabio Sciarrino**, Sapienza University of Rome ○ **Christoph Glingener**, ADVA
12.00	Break

II: Photonics Partnership & Quantum Flagship Projects & Services on (Q)PICs	
12.45	***Presentations: H2020 Photonics and Flagship projects and services related to QPIC*** Moderated by **Martin Schell**, Fraunhofer HHI • *CiViQ – Enabling Photonic Integration for CV-QKD*, Tobias Beckerwerth, Fraunhofer HHI • *PICs for quantum communication – the UNIQORN perspective*, Hannes Hübel, AIT • *PICs for Quantum Sensors in macQsimal*, Davide Grassani, CSEM • *SQUARE - Micro- and nano-photonics for optically addressable qubits*, David Hunger, KIT • *S2QUIP - Scalable Two-Dimensional Quantum Integrated Photonics*, Klaus Jöns, Paderborn University • *2D SIPC – 2D material enabled scalable quantum integrated photonic circuits*, Dmitri K. Efetov, ICFO • *Non-linear integrated quantum devices,* Christine Silberhorn, Paderborn University • *Photonics in iqClock*, Yeshpal Singh, University of Birmingham • *Quantum Communication PICs in the German QuNET program*, Moritz Kleinert, Fraunhofer HHI • *Advancing quantum capabilities and scale with integrated photonics*, Jonathan Matthews, University of Bristol • *Integrated photonic quantum computing*, Pascale Senellart, Université Paris-Saclay • *Quantum and PIC ecosystems in the Netherlands*, Joanne Wilson, TNO
14.25	Break
14.40	***Discussion – how and where to establish cooperative structures between existing projects and services; training needs and offers*** Moderated by **Anke Lohmann**, Anchored In and **Paolo Villoresi**, University of Padua
III: Final discussion, conclusions and next steps	
15.20	***Measures needed to build up a world class QPIC R&I infrastructure in Europe?*** Moderated by **Roberta Ramponi,** CNR IFN **Eleni Diamanti**, Sorbonne University **Anke Lohmann**, Anchored In **Mike Wale,** Eindhoven University of Technology **Klaus Jöns**, Paderborn University **Martin Schell**, Fraunhofer HHI
16.00	**End of Meeting**