

CLP DAY **Photonic chips for information and quantum applications**

Friday April 19, 2024

For further information, visit www.icfo.eu



PROGRAM

- 9:00-9:30 Welcome coffee and registration 9:30-9:35 **CLP Welcome** Silvia Carrasco, KTT Director, ICFO 9:35-9:40 Welcome Address, Photonics and guantum chips in the EU Lucilla Sioli Director for AI and Digital Industry, EU Commission 9:40-10:00 **National Chips Program** Jaime Martorell Comisionado Especial para el PERTE chip en España 10:00-10:25 **Quantum Flagship Qu-Pilot** Mika Prunnila VTT & Qu-Pilot coordinator 10:25-10:50 InP PIC Pilot Production Kevin Williams Eindhoven University of Tech & Coordinator of JEPPIX 10:50-11:15 Harnessing Light for a Brighter Future **Michael Peeters** VP R&D connectivity, IMEC 11:15-11:40 **Coffee Break** 11:40-12:05 Scaling low loss PIC fabrication from prototype to volume Gabriele Navickaite Director of Process Engineering, LIGENTEC 12:05-12:30 Photonic and Electronic Packaging Technologies – the transition from research to manufacturing Peter O'Brien Tyndall Institute & Photonics Packaging EU Pilot Line 12:30-13:30 Panel on market verticals Andreas Matiss, Senior Tech Manager of Corning Optical Comm. Carlos Abellan, CEO and co-founder of Quside Ana Gonzalez, Director of Strategic Partnerships at Ipronics Vanesa Diaz, CEO of LuxQuanta Alexia Salavrakos, Quantum Information Scientist at Quandela
- 13:30-14:30 Networking Lunch

SPEAKERS



Lucilla Sioli Director for AI and Digital Industry, EU Commission



Jaime Martorell Comisionado Especial para el PERTE chip en España



Mika Prunnila, Prof. at VTT and Qu-pilot coordinator

Mika is a professor at VTT's Microelectronics and Quantum Technologies research area. He has been involved in the preparation and execution of several collaborative national and international research projects, including Quantum Flagship project Qu-Pilot and quantum technology ecosystem project QuTI. Mika received his PhD from Aalto University in 2007. He is a co-founder of SemiQon company.



Kevin Williams, Eindhoven University of Tech & Coordinator of JEPPIX

Kevin is a full professor and chair of the Photonic Integration group at TU/e, where he has lead projects for wafer-scale membrane-based InP PICs and electronic cointegration. He is also chair of the joint EU platform for PICs & components – JePPIX, and coordinator of the EC funded JePPIX Pilot Line. Before, he was a Fellow at Cambridge U. and received the Marie Curie Chair & Dutch Vici Awards. Kevin received his PhD from Bath U. in 1995.



Michael Peeters, VP R&D connectivity, IMEC

As VP of R&D for Connectivity, Michael coordinates IMEC's R&D lines on next generation communication systems, from the materials, devices, circuits, signal processing all the way up to the orchestration engines. Previously, he worked at Nokia (CTO for the Wireline and Wireless business lines) and Bell Labs. He obtained his PhD degree in Applied Physics and Photonics from Vrije Universiteit Brussels.



Gabriele Navickaite, Director of Process Engineering, LIGENTEC

Gabriele is Director of Process Engineering at LIGENTEC, a company offering a lowloss silicon nitride PIC platform for specific solutions in communication, quantum computing, among others. Before joining LIGENTEC, she was a research engineer at ICFO in the group of Frank Koppens, and has over a decade of experience in micro fabrication processing. Gabriele graduated with a Master degree from UPC, KIT and Aix-Marseille.



Peter O'Brien, Prof. at Tyndall Institute, Photonics Packaging EU Pilot Line

Peter is head of the Photonics Packaging & Systems Integration Group at the Tyndall Institute, University College Cork. He is also director of the European Photonics Pilot Line PixApp and the European Photonics Academy Photonhub. He previously founded and was CEO of a biomedical photonics start-up. Prior to this, he was a post-doctoral scholar at CALTECH, research scientist at NASA's JPL, and PhD fellow in Physics at U. College Cork.



Andreas Matiss, Senior Tech Manager of Corning Optical Communications

Dr. Matiss received his PhD in 2008 from Duisburg-Essen University. After his PhD he worked for u2t photonics (now Coherent) where he led III-V device development for long-haul optical communication. In 2012, Andreas joined Corning Optical Communications, and currently leads the Optical Components & Integration department responsible for the development of Corning glass substrates for advanced photonic packaging.



Ana Gonzalez, Director of Strategic Partnerships at Ipronics

Dr. González is currently VP of Business Development at iPRONICS. Former R&D Manager at EPIC (European Photonics Industry Consortium), she has a solid network in the photonics industry with a large experience reaching out to commercial partners and new adopters of PIC technologies. Her expertise lies in the development of optical systems for telecom and datacom.



Carlos Abellan, CEO and co-founder of Quside

Carlos is cofounder and CEO at Quside, a quantum tech spin-off from ICFO. Carlos got his PhD in quantum technologies at ICFO, where he developed the quantum randomness technologies transferred to Quside. He has 10 years of experience in quantum & photonics technologies, and he is also co-inventor of multiple patent families and co-author of 15+ papers in top scientific journals. He received the award MIT Innovators Under 35 Europe.



Vanesa Diaz, CEO of LuxQuanta

Vanesa has over 20 years of expertise in the Telecom industry, with the majority of her career focused on developing new markets at Corning. Vanesa's background includes an MSc in Telecommunications Engineering and a master's in business & marketing from Griffith University, Australia. Leading LuxQuanta's team with vision and determination, Vanesa is propelling the QKD market and establishing the young start-up as an industry reference.



Alexia Salavrakos, Quantum Information Scientist at Quandela

Alexia Salavrakos works as a researcher at Quandela, a French startup dedicated to building a photonic quantum computer. She obtained her PhD at ICFO in 2019 on the topic of Bell inequalities for device-independent protocols. She also has professional experience in data science and machine learning.



