Optics & Photonics in Sweden 2025

Conference & Exhibition

PhotonicSweden
The Swedish Technology Platform in Optics and Photonics

KTH VETENSKAP OCH KONST

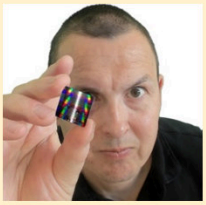
JOHN LINCOLN
Director, Chief Executive Harlin Ltd, UK

OPS-2025 Keynote Talk
"Photonics present and future:- the scale and impact of as industry vital to the 21st century"
John Lincoln, Director, Harlin Ltd; Chief Executive, Photonics Leadership Group; Europe Strategy Director, SPIE; Member of multiple advisory boards
https://www.linkedin.com/in/johnrlincoln/

John is SPIE's Europe Strategy Director and Chief Executive of the UK Photonics Leadership Group supporting the alignment of policy, industry and research strategy in the £18.5bn UK Photonics industry.

John has over 35 years' experience in the industry developing products, business and policy impacts. John has run his business development consultancy, Harlin Ltd, since 2006 helping SMEs, Universities, VCs and governments to identify growth opportunities and technology impact at company, national and international level.

John sits on multiple advisory boards, is a non-executive director of Dialight PLC and entrepreneur coach for the European Innovation Council.



WIM BOGAERTS
Professor at Ghent University/IMAC, Belgium

OPS-2025 Keynote Talk
"Silicon photonics chip and its complex circuits performance of electrical-to-optical conversions and light coupling"
Prof Wim Bogaerts specializes in silicon photonics, design of complex photonics circuits, and programmable photonics. During and after his PhD, he laid the foundations for IMEC's silicon photonics platform, and the multi-project-wafer service ePIXfab which made this technology accessible for many researchers in Europe and beyond. To enable design of these circuits, Wim and his colleagues developed the parametric design software IPKISS. In 2014, Wim co-founded the spin-off company Luceda Photonics (since 2025 part of the Semitronix group), to commercialize IPKISS, which is now used by thousands of designers worldwide. In 2016, Wim received a consolidator grant from the European Research Council, and returned full-time to Ghent University, with a research focus on programmable photonics. Since 2023 Wim is also chair of ePIXfab, the European alliance to promote the silicon photonics ecosystem. He is a Fellow of the IEEE and OPTICA, and senior member of the SPIE.

YEN-CHIEH HUANG
Professor at National Tsing Hua University (NTHU), Taiwan

OPS-2025 Keynote Talk
"Photonic Chips for Electron Acceleration and Radiation."
Prof. Huang is Co-inventor of laser-driven particle acceleration on a chip—a breakthrough poised to miniaturize high-energy accelerators. His compact design generates nano-electron bunches for x-ray superradiance, potentially brighter than large-scale synchrotrons, with applications in materials science and radiotherapy. He also holds the record for high-energy THz generation used in particle acceleration. He's renowned for pioneering work in nonlinear optics, especially with periodically poled lithium niobate (PPLN) crystals. In 2000, he founded HC Photonics, first to commercialize quasi-phase-matched crystals.

He also pioneered LED-pumped lasers—cost-effective, long-lived sources. His team built megawatt-class systems able to machine hard materials. In 2023, he founded LEDlas, commercializing the world's first MW-class LED-pumped solid-state laser. A key figure in global photonics, Prof. Huang has held visiting positions at Stanford, KTH, and Peking University, and collaborates widely. He's authored numerous papers, patents, a widely used optics textbook, and helped organize over 40 conferences.

CHARLOTT SAMUELSSON
Senior Vice President at Mycronic AB, Sweden

OPS-2025 Keynote Talk
"More than 50 years of innovation – Mycronic´s journey to the heart of the display and semiconductor industry"
Charlott is head of the Pattern Generator divisions at Mycronic AB. She is MSc in Technical Physics and Tech. Lic. in Electron Physics from Chalmers University of Technology in Gothenburg. After five years in the defence industry, Charlott joined Mycronic in 1996 and has since then been part of Mycronic journey from a start-up to large cap. Since 2017, Charlott has been managing the Pattern Generator business.

Mycronic is a world-leading provider of flexible, high-precision production solutions for electronics manufacturing. In 1971, a group of Swedish engineers from the Royal Institute of Technology in Stockholm began work on developing what was later became Mycronic´s first comercial laser mask writer. This fundamental technology is today strategic for the whole display industry and key for a cost-efficient manufacturing of semiconductor. Mycronic has maintained its role as a global leader in laser mask writer expertise and the mask writers are now the core business for one of Mycronics four divisions.