

COURSE PROGRAM***Day 1: 12 November 2020***

- 09:00 – 09:10 Welcome, practical details and introduction of the experts
Roel Baets
Chair of ePIXfab, Prof. at Ghent University-imec, Belgium
- 09:10 – 09:45 **Tutorial: Introduction to Silicon Nitride PICs**
Roel Baets
Chair of ePIXfab, Prof. at Ghent University – imec, Belgium
- 09:45 – 10:15 **Topical Lecture: PECVD vs LPCVD silicon nitride and different wavelength ranges**
Andim Stassen
imec, Belgium
- 10:15 – 10:45 **Topical Lecture: Different waveguide types and associated fiber-chip coupling methods**
Douwe Geuzebroek
LioniX International, the Netherlands
- 10:45 – 11:15 **BREAK**
- 11:15 – 11:45 **Topical Lecture: Low-loss SiN waveguides: what does it take and how far can we go?**
Michael Geiselmann
LIGENTEC, Switzerland
- 11:45 – 12:15 **Topical Lecture: SOI + SiN co-integration**
Quentin Wilmart
CEA-LETI, France
- 12:15 – 12:45 **Topical Lecture: Integration of light sources – the options**
Camiel Op de Beeck
Ghent University – imec, Belgium
- 12:45 – 13:15 **Topical Lecture: Integration of modulators – the options**
TBA

Day 2: 13 November 2020

- 09:00 – 09:45 **Tutorial: Overview of the current state-of-the-art**
Jeremy Witzens
RWTH Aachen, Germany
- 09:45 – 10:15 **Topical Lecture: Integration of detectors – the options**
Anna Lena Giesecke
AMO GmbH, Germany
- 10:15 – 10:45 **Use Case: Medical Diagnostcs**
Jan-Willem Hoste
Antelope Dx, Belgium
- 10:45 – 11:15 **BREAK**
- 11:15 – 11:45 **Use Case: Quantum Computing**
Jörn Epping
QuiX, the Netherlands
- 11:45 – 12:15 **Use Case: Microwave Photonics and Optical Communication**
David Marpaung
University of Twente, the Netherlands
- 12:15 – 12:45 **Use Case: Beam forming and Lidar**
Xavier Rottenberg
Imec, Belgium
- 12:45 – 13:15 **Short presentation by various solution providers for SiN PICs**
Abdul Rahim
ePIXfab - Ghent University (Belgium)
- 13:15 – 13:20 Closing remarks at the end of the course