

8th ePIXfab Silicon Photonics Summer School
Ghent University | July 3-7, 2023



DETAILED PROGRAM

3 July 2023 (Monday)	4 July 2023 (Tuesday)	5 July 2023 (Wednesday)	6 July 2023 (Thursday)	7 July 2023 (Friday) Joint program with 5th Asia-Europe silicon photonics symposium
9:00 AM - 9:15 AM (15 min.) Welcome and housekeeping School organizing committee	09:00 - 10:00 AM (60 min.) Programmable integrated photonics Prof. Jose Capmany Universidad Politécnica de Valencia, Spain	09:00 - 10:00 AM (60 min.) Plasmonics – An Enabling Technology for Ultra-Fast Communications Prof. Juerg Leuthold ETH Zurich, Switzerland	09:00 AM - 10:00 AM (60 min.) Processing light with sound in integrated photonics Prof. Raphael van Laer Chalmers University of Technology, Sweden	09:00 AM - 9:45 AM (45 min.) Silicon photonic foundries: perspectives from the providers and the perspectives from the users Dr. Patrick Lo Guo Qiang Advanced Micro Foundry, Singapore
9:15 AM - 10:00 AM (45 min.) Introduction to silicon photonics Prof. Roel Baets Ghent University - imec	10:00 AM - 10:45 AM (45 min.) Coffee Break	10:00 AM - 10:45 AM (45 min.) Coffee Break	10:00 AM - 10:30 AM (30 min.) Coffee Break	9:45 AM - 10:30 AM (45 min.) Monolithic photonic-electronic co-integration Prof. Lars Zimmermann IHP, Germany
10:00 AM - 10:45 AM (45 min.) Coffee Break	10:45 AM - 11:45 AM (60 min.) Photonic Integration based on Lithium-Niobate-On-Insulator Prof. Liu Liu Zhejiang University, China	10:45 AM - 11:45 AM (60 min.) Electronic-photonic co-design /co-assembly for high-speed transceivers Prof. Peter Ossieur Ghent University - imec, Belgium	10:30 AM - 11:30 AM (60 min.) Mid-IR silicon photonics Dr. Milos Nedeljkovic University of Southampton, United Kingdom	10:30 AM - 11:00 AM (30 min.) Coffee Break
10:45 AM - 12:15 PM (90 min.) Passive components in silicon photonics Prof. Dries Van Thourhout Ghent University-imec, Belgium	11:45 AM - 12:45 PM (60 min.) Integration of lasers in silicon photonics Prof. Gunther Roelkens Ghent University - imec (Belgium)	11:45 AM - 12:45 PM (60 min.) Design, Manufacturing, and Packaging of Silicon Photonic Devices Dr. Padraic Morrissey Tyndall National Institute, Ireland	11:30 AM - 12:30 PM (60 min.) Dialogue between participants and experts Moderated session	11:00 AM - 11:45 PM (45 min.) Quantum silicon photonics Dr. Christian Haffner imec, Belgium
12:15 PM - 1:45 PM (90 min.) Lunch Break	12:45 - 2:00 PM (75 min.) Lunch Break	12:45 - 2:15 PM (90 min.) Lunch Break	12:30 - 1:30 PM (60 min.) Lunch Break	11:45 AM - 12:30 PM (45 min.) Future trends of silicon photonics Prof. Roel Baets Ghent University-imec, ePIXfab, Belgium
1:45 PM - 2:45 PM (60 min.) High-speed modulators in silicon photonics Dr. Laurent Vivien C2N, Paris-Saclay University, France	2:00 PM - 3:30 PM (90 min.) Silicon nitride integrated photonics Prof. Victor Torres Company Chalmers University of Technology, Sweden	2:15 PM - 3:15 PM (60 min.) Silicon and silicon nitride photonics innovation from academic labs Prof. Shankar Kumar Selvaraja Indian Institute of Science, India	1:30 PM - 3:00 PM (90 min.) The new multimode optics - self-configuring circuits and fundamental limits for photonic structures Prof. David Miller Stanford University, U.S.A	12:30 PM - 2:00 PM (90 min.) Lunch Break
2:45 PM - 3:30 PM (45 min.) Coffee Break	3:30 PM - 4:00 PM (30 min.) Coffee Break	3:15 PM - 4:00 PM (45 min.) Coffee Break	3:00 PM - 3:45 PM (45 min.) Coffee Break	
3:30 PM - 4:30 PM (60 min.) High-speed detectors in silicon photonics Dr. Laurent Vivien C2N, Paris-Saclay University, France	4:00 PM - 5:00 PM (60 min.) Silicon photonics for AI, and AI for silicon photonics - the good, the bad and the ugly. Dr. Thomas Van Vaerenbergh Hewlett Packard Enterprise, Belgium	4:00 PM - 5:00 PM (60 min.) Bio-sensors in silicon photonics Dr. Diedrik Vermeulen Siphox, U.S.A	3:45 PM - 4:45 PM (60 min.) Silicon photonics LIDAR Marcus Dahlem imec, Belgium	
4:30 PM - 5:30 PM (60 min.) Silicon photonics design methodologies Prof. Wim Bogaerts Ghent University - imec, Belgium	5:10 PM - 7:00 PM (110 min.) Poster Session I	5:10 PM - 7:00 PM (110 min.) Poster Session II	4:45 PM - 6:00 PM (75 min.) Sponsored talks and lab visits of Photonics Research Group	
6:00 PM - 7:30 PM (120 min.) Boat Trip + Group Photo			7:30 PM - onwards School Dinner	