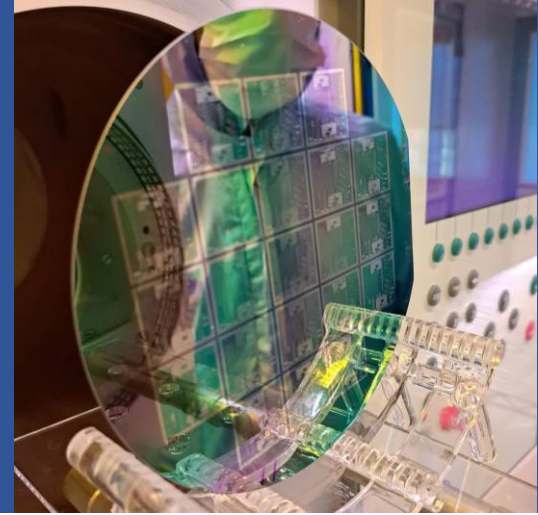


## WORKSHOP

# Integration of novel materials into silicon photonics

Aachen, Forum M  
November 21-22, 2022



## Venue

Forum M  
Mayersche Buchhandlung Aachen  
Buchkremerstraße 1-7, Aachen

## Workshop program

---

### Monday, November 21, 2022

---

11:00 – 12:00 Registration

12:00 – 13:00 Lunch

13:00 – 13:30 [Stephan Suckow \(AMO GmbH\)](#)  
Opening

13:30 – 14:00 [Anna Lena Schall-Giesecke \(Fraunhofer IMS, University of Duisburg-Essen\)](#)  
“Material integration into dielectric photonic waveguide platforms”

14:00 – 14:30 [Jeremy Witzens \(RWTH Aachen University\)](#)  
“Remanent reconfiguration of chalcogenide devices on SOI-photonics”

14:30 – 15:00 [Ioannis Zeimpekis \(University of Southampton\)](#)  
“Chalcogenides for integrated Photonics”

15:00 – 16:00 Coffee break + Poster session

16:00 – 16:30 [Martin Heck \(TU/e\)](#)  
“Heterogeneous integration of InP and silicon photonics”

16:30 – 17:00 [Fabrice Ranieri \(C2N, Université Côte d’Azur\)](#)  
“III-V on Si nanosources”

17:00 – 17:30 [Matthias Wuttig \(RWTH Aachen University\)](#)  
“Tailoring Phase Change Materials for Photonic and Neuromorphic Applications”

19:00 – 22:00 [Workshop Dinner at “Ratskeller” \(Markt 40, 52062 Aachen\)](#)

---

## Tuesday, November 22, 2022

09:00 – 09:30	Steven Koester (University of Minnesota) “2D materials integration for integrated optoelectronic applications”
09:30 – 10:00	Loyd J. McKnight (Fraunhofer Centre for Applied Photonics - Glasgow) “Integration of lithium niobate on silicon nitride photonics”
10:00 – 10:30	Ueli Koch (ETH Zürich) “Integration of Plasmonics – Exploiting Nonlinear Materials at Highest Speeds”
10:30 – 11:00	Coffee Break
11:00 – 11:30	Mario Zapata (CSIC) “Nanoantenna-emitter hybrids coupled to waveguides”
11:30 – 12:00	Eva Desgué (THALES) “Growth of PtSe <sub>2</sub> films by molecular beam epitaxy for high frequency optoelectronics”
12:00 – 12:30	Delphine Pommier (THALES) “Graphene and PtSe <sub>2</sub> based photodetection and optoelectronic mixing”
12:30 – 14:00	Lunch
14:00 – 14:20	Despoina Petousi (ADVA Optical Networking) “An industrial perspective on integrated photonics for telecommunication”
14:20 – 14:45	Round table discussion
14:45 – 15:00	Break
<b>2D-EPL Workshop – Pioneering 2D materials for the semiconductor industry</b>	
15:00 – 15:15	Inge Asselberghs (IMEC) 2D Experimental Pilot Line update
15:15 – 16:00	Dries Van Thourhout (IMEC, Ghent University) “Integration of graphene and 2D-materials on Si and SiN Photonic ICs”
16:00 – 16:30	Mindaugas Lukosius (IHP) “Towards the integration of graphene modulators in a CMOS pilot line”
16:30 – 17:00	Panel discussion

Organized by:



Funded by:

