

Conference Agenda

European Conference On Integrated Optics

Date: Monday, 17/June/2024

7:45am	Registration I	
-	Location: Foyer	
8:45am		
8:45am	Plenary IA	
-	Location: Ford + Generali Rooms	
10:45am		
	8:45am - 9:15am	
	Welcome	
	<u>Ulrich Rüdiger</u> , Jeremy Witzens, Joyce Poon, Lars Zimmermann, Wolfgang Freude	
	9:15am - 10:00am	
	Nanophotonics for tailoring radiation from fast electrons	
	<u>Marin Soljacic</u>	
	10:00am - 10:45am	
	Panel "PIC Technologies"	
	<u>TBD TBD</u>	
10:45am	Coffee Break I	
-	Location: Foyer	
11:15am		
11:15am	FORD IA: Quantum Technologies	GENERALI IA: Communication Systems and Microwave Photonics
-	Location: Ford Room	Location: Generali Room
12:30pm		
	11:15am - 11:45am	11:15am - 11:45am
	Integrated photonic quantum technologies	Next-generation coherent pluggables enabled through vertical integration
	<u>Anthony Laing</u>	<u>Daniel Semrau</u>
	11:45am - 12:15pm	11:45am - 12:00pm
	Quantum Key Distribution with Integrated Photonics	Sustainable Pbps Co-Packaged Optics using Passively Assembled, Flip-Chip Evanescent Couplers
	<u>Andrew Shields</u>	<u>Drew Michael Weninger</u> , Samuel Serna, Luigi Ranno, Lionel Kimerling, Anuradha Agarwal
	12:15pm - 12:30pm	12:00pm - 12:15pm
	On-chip phase sensing with undetected photons	Observation of fundamental charge noise in electro-optic photonic integrated circuits
	<u>Stefano Signorini</u> , Chiara Michelini, Lorenzo Pavesi, Valerio Pruneri	<u>Junyin Zhang</u> , Zihan Li, Johann Riemensberger, Grigory Lihachev, Guanhao Huang, Tobias Kippenberg
		12:15pm - 12:30pm
		Simultaneous Notch Filtering and True Time Delay RF Photonic Front-end
		<u>Shangqing Shi</u> , Kaixuan Ye, M.T. van den Berg, Okky Daulay, Gaojian Liu, David Marpaung
12:30pm	Lunch I	
-	Location: Foyer	
2:00pm		

2:00pm
-
2:45pm

Plenary IB
Location: **Ford + Generali Rooms**

2:00pm - 2:45pm

Integrated devices and high-dimensional photonic systems for quantum technologies
Christine Silberhorn

2:45pm
-
3:45pm

Poster I
Location: **Foyer**

CMOS electronic circuits in standard Silicon Photonics

Monica Crico, Samuele De Gaetano, Andres Martinez, Francesco Morichetti, Andrea Melloni, Giorgio Ferrari, Marco Sampietro, **Francesco Zanetto**

Comparison of thermo-optic phase shifters in silicon platforms

Yuxi Fang, Hong Deng, Xiangfeng Chen, Halil Cuma, Nagarjun K.P., Filippo Ferraro, Guy Lepage, Peter De Heyn, Wim Bogaerts

High rate silicon integrated source of hyperentangled photon pairs

Marcello Bacchi, Linda Gianini, Andrea Barone, Jonathan Faugier-Tovar, Sara Congia, Massimo Borghi, Noemi Tagliavacche, Luca Zatti, Quentin Wilmart, Ségolène Olivier, Marco Liscidini, Matteo Galli, Daniele Bajoni

Optomechanical Crystal Cavities for Mechanically-enabled All-Optical Upconversion of 3GPP 5G NR Signals

Raúl Ortiz, Vicente Fito, Maria Morant, Laura Mercadé, Roberto Llorente, Alejandro Martínez

Integrated Microwave Photonic Notch Filter in Thin-film Lithium Niobate

Chuangchuang Wei, Hanke Feng, Kaixuan Ye, Cheng Wang, David Marpaung

Generating Photon Pairs in a Hybrid Si-BTO Platform

Daniel William Marchant, Imad Faruque, Jorge Baretto

Microwave Photonic Notch Filter Using Stimulated Brillouin Scattering in a Si₃N₄-TeO₂ Hybrid Waveguide

Akhileshwar Mishra, Yvan Klaver, Randy te Morsche, Bruno Luís Segat Frare, Batoul Hashemi, Niloofar Majidian Taleghani, Pooya Torab Ahmadi, Evan Jonker, Jonathan Bradley, David Marpaung

Investigating the Spectral Response of a Taiji-CROW Device

Bulent Aslan, Riccardo Franchi, Stefano Biasi, Salamat Ali, Lorenzo Pavesi

Multimodal semi-analytical model for bound states in the continuum and unidirectional guided resonances in a photonic crystal

Thomas Delplace, Tom van Loon, Minpeng Liang, Jaime Gómez Rivas, Bjorn Maes

An efficient singlet-triplet spin qubit to fiber interface assisted by a photonic crystal cavity

Kui Wu, Sebastian Kindel, Thomas Descamps, Tobias Hangleiter, Jan Christoph Müller, Rebecca Rodrigo, Florian Merget, Hendrik Bluhm, Jeremy Witzens

Integrated spin-phonon devices based on SiC on insulator platform

Ruoming Peng, Yan Tung Kong, Joerg Wrachtrup

Thermoelastic Acousto-Optic Modulation in Thin-Film Lithium Niobate Circuit

Zheng Zheng, Hanke Feng, Ahmet Tarik Isik, Kaixuan Ye, Peter van der Slot, Cheng Wang, David Marpaung

Photonic Integrated Filter in Silicon Nitride Technology for High-Performance Microwave Photonics Applications

Valentina Gemmato, Filippo Scotti, Federico Camponeschi, Luca Rinaldi, Manuel Reza, Marco Bartocci, Paolo Ghelfi, Claudio Porzi

Pulse Driving of Thermo-Optic Phase Shifters on an InP membrane

Qiyuan Sheng, Yi Wang, Kevin Williams, Yuqing Jiao

Design of Silicon-Based Quantum Squeezer

Mouhamad Al-Mahmoud, Stéphane Clemmen

All dielectric integrable optical isolators

Sevag Abadian, Getúlio Souza, Stanislav Winkler, Marian Bogdan Sirbu, Michail Symeonidis, Tolga Tekin

Performance of Bragg grating assisted multi-band add-drop filters on the silicon-on-insulator platform

Alejandro Fernández-Hinestrosa, José Manuel Luque-González, Pavel Cheben, Jens H. Schmid, Shurui Wang, J. Gonzalo Wangüemert-Pérez, Iñigo Molina-Fernández, Alejandro Ortega-Moñux

Waveguide undercut in high-confinement silicon nitride platform for enhanced phase-shifters performance

Anton Stroganov, Henry Francis, Camiel Op de Beeck, Davide Sacchetto, Ozren Petrovic, Antoine Brimont, Michael Geiselmann

3:45pm
-
6:00pm

FORD IB: Quantum Technologies
Location: **Ford Room**

3:45pm - 4:00pm

High-visibility interference for time bin encoded entanglement on silicon integrated platform

Yue Qin, Hongnan Xu, Gaolei Hu, Hon Ki Tsang

GENERALI IB: Microwave Photonics and Photon-Phonon Interaction

Location: **Generali Room**

3:45pm - 4:00pm

RF photonic self-interference cancellation system using silicon nitride ring resonator network

Maarten T. Eijkel, Redlef B. G. Braamhaar, Peter J. M. van der Slot, David A. I. Marpaung

4:00pm - 4:15pm

Silicon photonic circuits for on-chip photon-pair generation and wavelength demultiplexing

David Enrique Medina Quiroz, Paul Joseph Robin, Romain Dalidet, Laurent Labonte, Sebastien Tanzili, Laurent Vivien, Eric Cassan, Carlos Alonso Ramos

4:00pm - 4:15pm

Large-scale photonic chip based pulse interleaver for low-noise microwave generation

Zheru Qiu, Neetesh Singh, Yang Liu, Xinru Ji, Rui Ning Wang, Franz X. Kärtner, Tobias J. Kippenberg

4:15pm - 4:45pm

Single solid-state quantum emitter photonics for on-chip quantum information

Marcelo Davanco

4:15pm - 4:30pm

Agile Spectral Multiplication of Narrow-Band Comb using Integrated InP Multi-Wavelength Laser

Pablo Marin-Palomo, Shahab Abdollahi, Mathieu Ladouce, Martin Virte

4:45pm - 5:00pm

Fabrication of semiconductor membranes for an efficient spin qubit to photon interface assisted by a photonic crystal cavity

Sebastian Kindel, Kui Wu, Thomas Descamps, Rebecca Rodrigo, Arne Ludwig, Andreas D. Wieck, Jeremy Witzens, Hendrik Bluhm

4:30pm - 5:00pm

Engineering Photons and Phonons in Silicon Nanostructures

Carlos Ramos

5:00pm - 5:30pm

Atom-photon interactions in atomic vapor waveguides

Uriel Levy

5:30pm - 5:45pm

Industrial Ion Trap Chips with Integrated Optics

Alexander Zesar, Jakob Wahl, Sofia Cano Castro, Klemens Schüppert, Yves Colombe, Silke Auchter, Max Glantschnig, Clemens Rössler, Bernhard Lamprecht, Philipp Hurdax, Marco Schmauser, Marco Valentini, Philipp Schindler, Thomas Monz, Oscar Jimenez Gordillo, Andrea Melloni, Joachim Krenn

5:45pm - 6:00pm

Photonic platform for industrially microfabricated ion traps

Sofia Cano Castro, Alexander Zesar, Max Glantschnig, Oscar A. Jimenez Gordillo, Silke Auchter, Yves Colombe, Clemens Rössler, Andrea Melloni

6:00pm
-
7:30pm

Welcome Reception
Location: **Foyer**

5:00pm - 5:15pm

Microwave-optical transduction using high-overtone bulk acoustic resonators on silicon nitride photonics

Terence Blesin, Wil Kao, Anat Siddharth, Rui Ning Wang, Alaina Attanasio, Hao Tian, Sunil A. Bhave, Tobias J. Kippenberg

5:15pm - 5:30pm

Brillouin-active Subwavelength Silicon Membrane Waveguides

Paula Nuño Ruano, Jianhao Zhang, David González-Andrade, Hiba el Batoul Ferhat, Daniele Melati, Eric Cassan, Pavel Cheben, Laurent Vivien, Norberto Daniel Lanzillotti-Kimura, Carlos Alonso-Ramos

5:30pm - 5:45pm

Net Brillouin gain in tellurite covered silicon nitride waveguides

Yvan Klaver, Randy te Morsche, Roel A. Botter, Batoul Hashemi, Bruno Segat Frare, Pooya Torab Ahmadi, Niloofar Majidian Taleghani, Evan Jonker, Kaixuan Ye, Akhileshwar Mishra, Redlef Braamhaar, Jonathan Bradley, David Marpaung

5:45pm - 6:00pm

Surface acoustic wave Brillouin scattering in thin-film lithium niobate waveguides

Kaixuan Ye, Hanke Feng, Yvan Klaver, Akshay Keloth, Akhileshwar Mishra, Cheng Wang, David Marpaung

Date: Tuesday, 18/June/2024

8:00am -	Registration II Location: Foyer	
9:00am -	Plenary II Location: Ford + Generali Rooms	
10:30am	9:00am - 9:45am A Particle Accelerator on a Photonic Chip: Design and Applications <u>Peter Hommelhoff</u>	
	9:45am - 10:30am Panel "Innovation & Emerging Applications" TBD TBD	
10:30am -	Coffee Break II Location: Foyer	
11:00am		
11:00am -	FORD IIA: Visible Photonics and Sensing Location: Ford Room	GENERALI IIA: Programmable Photonics Location: Generali Room
12:30pm	11:00am - 11:30am Integrated Photonic Biosensors <u>Iñigo Molina</u>	11:00am - 11:30am Programmable Integrated Photonics with Phase-change Materials Niloy Acharjee, <u>Carlos A. Ríos Ocampo</u>
	11:30am - 12:00pm Silicon photonics for medical and environmental sensing <u>Milos Nedeljkovic</u>	11:30am - 12:00pm Multilevel reconfigurable nanophotonics with low-loss phase-change materials <u>Sébastien Cuffe</u>
	12:00pm - 12:15pm Visible-light Optical Phased Arrays with a Convex Grating Emitter on Implantable Neural Probes for Spatially Targeted Deep Brain Optogenetics <u>Ankita Sharma</u> , Fu-Der Chen, Alperen Govdeli, Xianshu Luo, Hongyao Chua, Guo-Qiang Lo, Wesley D. Sacher, Joyce K.S. Poon	12:00pm - 12:15pm Sb₂Se₃ based Non-volatile Memory for Photonic Matrix-Vector Multiplications <u>Mukta Janpandit</u> , Rakshitha Kallega, Ramesh K, Chetan Singh Thakur, Shankar Kumar Selvaraja
	12:15pm - 12:30pm Focusing Optical Phased Array for Optically Enabled Probing of the Retina with Subcellular Resolution <u>Pedram Hosseini</u> , Prachi Agrawal, Alireza Tabatabaei Mashayekh, Sandra Johnen, Jeremy Witzens, Florian Merget	12:15pm - 12:30pm Reconfigurable silicon polarization rotator in the O-band using Sb₂Se₃ on the silicon-on-insulator platform <u>Jorge Parra</u> , Juan Navarro-Arenas, Amadeu Griol, Pablo Sanchis
12:30pm -	Lunch II Location: Foyer	
2:00pm		
2:00pm -	Ford IIB: Visible Photonics, Sensing, Polymer and Nonlinear Photonics Location: Ford Room	GENERALI IIB: Programmable Photonics Location: Generali Room
3:30pm	2:00pm - 2:15pm Beyond the free spectral range: on-chip spectrometer with multi-color cascaded colloidal quantum-dot photodiodes <u>Chao Pang</u> , Raúl López March, Ezat Kheradmand, Yuhao Deng, Luis Moreno Hagelsieb, Lukas Elsinger, David Cheyns, Pieter Geiregat, Zeger Hens, Dries Van Thourhout	2:00pm - 2:30pm Integration Technologies for High-Speed Neuromorphic Photonics <u>Giampiero Contestabile</u>
		2:30pm - 2:45pm

2:15pm - 2:30pm

Characterization of Grating Out-couplers in the Ultraviolet-C wavelength range for on-chip spectroscopy

Chenming Su, Nicolas Le Thomas

2:30pm - 2:45pm

Efficient Modelling of 3D-printed Freeform Waveguides by a Dedicated Beam-Propagation Method (BPM) Based on Transformation Optics

Sina Foroutan-Barenji, Jonas Krimmer, Wolfgang Freude, Christian Koos

2:45pm - 3:00pm

Wavelength Tunable, Polymer-Based Arrayed Waveguide Gratings for Hybrid Integration

Martin Kresse, Moritz Kleinert, David de Felipe, Tianwen Qian, Philipp Winklhofer, Madeleine Weigel, Klara Mihov, Jakob Reck, Crispin Zawadzki, Norbert Keil, Martin Schell

3:00pm - 3:30pm

Power-efficient silicon nitride soliton microcombs

Victor Torres Company

3:30pm
-
4:30pm

Poster II

Location: **Foyer**

An ultra-small InP Microdisk laser diode for programmable non-linear activation functions in neuromorphic photonics

Christos Pappas, Andrea Demarchi, Ioannis Roumpos, Guilhem Madiot, Miltiadis Moralis-Pegios, Geroge Giamougiannis, Apostolos Tsakyridis, Alexandre Bazin, Francesco Manegatti, Grégoire Beaudoin, Konstantinos Pantzas, Isabelle Sagnes, Fabrice Raineri, Nikos Pleros

Waveguide spectral lens and solar spectrum measurement in the visible-near-infrared region

Shijie Ke, Ziyang Zhang

Fast Prototyping of Facet-Attached Microlenses Using 2PP Printing

Gandolf Feigl, Matthias Jannach, Samuel M. Hörmann, Jakob Wilhelm Hinum-Wagner, Alexander Bergmann

Control of Programmable Optical Processors by using a Neural-Network Digital Twin

Gabriele Cavicchioli, Francesco Maria Sances, Andrea Melloni, Francesco Morichetti

Combining Photonic Integrated Circuits and Detectors with Absolute Responsivity as an Absolute Power Source

Lars Kristian Gretland Skaar, Johanne Heitmann Solheim, Jarle Gran

Thermo-optical robustness of crystalline Sb₂Se₃/Si waveguides at 1310 nm

Iñigo Lopez-Mulet, Jorge Parra, Miroslavna Kovylyna, Pablo Sanchis

Towards Large-Language Model Assisted Layout of Silicon Photonic Integrated Circuits

A Photonic Convolution Processor Based on Matched Pair of Arrayed Waveguide Gratings

Caiyue Zhao, Dan Yi, Zunyue Zhang, Hongnan Xu, Hon Ki Tsang

2:45pm - 3:00pm

Two Modes Unscrambling using a Single Micro-ring Resonator

Dan Yi, Hon Ki Tsang

3:00pm - 3:15pm

Photo-thermal Plasmonic Sensors for Transparent Detection and Control of Integrated Photonic Devices

Alessandro di Tria, Andres Martinez, Francesco Zanetto, Manuel Kohli, Juerg Leuthold, Alexandre Bouhelier, Francesco Morichetti, Andrea Melloni, Giorgio Ferrari, Marco Sampietro

3:15pm - 3:30pm

Hybrid SiN – Al(Ga)N optical phase shifter at 1550 nm

Cyrille Barrera, Yohan Désières, Amélie Dussaigne, Eva Kempf, Ludovic Dupré, Pierre Ferret, Carlos Alonso-Ramos, Frédéric Barbier, Jean-Gabriel Mattei, Laurent Clément, Laetitia Adelmini, Laurent Vivien, Frédéric Boeuf

Jason Liu, [Ankita Sharma](#), Cheick Doumbia, Joyce K.S. Poon

Functional programmable waveguide engine and arbitrary beam splitter

[Zeyu Deng](#), Ziyang Zhang

Towards monolithically integrated fluorescence microscopy using photonic integrated circuits

[Quentin Desmeth](#), Steven Vanuytsel, Victor Garcia-Munoz, Andim Stassen, Qingzong Deng, Vittal Thanjavur Prakasam, Vladimir Leonov, Seungkyu Ha, Pol Van Dorpe, Niels Verellen

Design of Microrings with complex waveguide crosssections to reduce non-linear effects of silicon

[Stefania Cucco](#), novarese marco, mariangela gioannini

Robust Fabrication of Photonic Neuromorphic Reservoir for Modulation Format Identification

[Enes Seker](#), Rijil Thomas, Guillermo von Hünefeld, Stephan Suckow, Gregor Ronniger, Mahdi Kaveh, Pooyan Safari, Isaac Sackey, David Stahl, Colja Schubert, Johannes Karl Fischer, Ronald Freund, Max C. Lemme

Microresonator frequency comb with improved efficiency via pump recycling in a gain medium

[Bastian Ruhnke](#), Mahmoud A. Gaafar, Thibault Wildi, Markus Ludwig, Alexander Ulanov, Thibault Voumard, Kai Wang, Milan Sinobad, Jan Lorenzen, Henry Francis, Jose Carreira, Michael Geiselmann, Neetesh Singh, Franz X. Kärtner, Sonia M. Garcia-Blanco, Tobias Herr

Si₃N₄ Microring-Resonator-Based Integrated Photonic Sensor for Enhanced Label-free Biofluid Analysis in the 850nm Optical Band

[Jakob Reck](#), Klara Mihov, Martin Kresse, David de Felipe, Tianwen Qian, Madeleine Weigel, Csongor Keuer, Philipp Winklhofer, Crispin Zawadzki, Moritz Kleinert, Norbert Keil, Martin Schell

Computer-generated MMI-type visible multi-wavelength combiner with monitor branch using Zr-doped PLC

[Junji Sakamoto](#), Yuji Fujiwara, Satomi Katayose, Toshikazu Hashimoto

On-chip optical neural network based on multimode interference

[Zhangqi Dang](#), Ziyang Zhang

All-optical XOR gate based on a saturable cavity

[Isaac Kimanga Luntadila Lufungula](#), Dries Van Thourhout

Reconfigurable Photonic Integrated Circuit for All-Optical Matrix Inversion

[Gabriele Cavicchioli](#), David A. B. Miller, Nader Engheta, Andrea Melloni, Francesco Morichetti

First Polymer-based Passive Optical Waveguide for the Visible Range from 633 nm down to 488 nm

[Tianwen Qian](#), Robin Kraft, Thomas Wiglenda, Crispin Zawadzki, Klara Mihov, Martin Kresse, Madeleine Weigel, Jakob Reck, Csongor Keuer, Philipp Winklhofer, Moritz Kleinert, David de Felipe, Arne Schleunitz, Norbert Keil, Martin Schell

4:30pm
-
6:00pm

FORD IIC: Nonlinear Photonics
Location: **Ford Room**

4:30pm - 4:45pm

Phase-stabilized electrically-driven microresonator frequency comb

GENERALI IIC: Programmable Photonics and Optical MEMS

Location: **Generali Room**

4:30pm - 4:45pm

1x22 Optical Switch by Thermo-Optic Waveguide Lens

Alexander Ulanov, Thibault Wildi, Thibault Voumard,
Bastian Ruhnke, Tobias Herr

Tao Chen, Ziyang Zhang

4:45pm - 5:00pm

**An Integrated Gallium Phosphide Optical
Parametric Amplifier**

Nikolai Kuznetsov, Alberto Nardi, Alisa Davydova,
Mikhail Churaev, Johann Riemensberger, Paul Seidler,
Tobias J. Kippenberg

4:45pm - 5:15pm

**MEMS-based integrated photonic elements for
ultra-low-power programmability**

Kyoungsik Yu

5:00pm - 5:15pm

Lithium tantalate photonic integrated circuits
Chengli Wang, Zihan Li, Xin Ou, Tobias Kippenberg

5:15pm - 5:30pm

**Monolithically Integrated Visible-Light MEMS
Switch**

Alperen Govdeli, Hong Chen, Saeed S. Azadeh, John N.
Straguzzi, Hongyao Chua, Guo-Qiang Lo, Joyce K. S.
Poon, Wesley D. Sacher

5:15pm - 5:30pm

**Broadband nonlinear photonics in integrated
gallium nitride waveguides**

Weichen Fan, Markus Ludwig, Ian Rousseau, Bastian
Ruhnke, Thibault Wildi, Tobias Herr

5:30pm - 5:45pm

**Photonic Integrated Piezo-MEMS (Pip-MEMS)
Device for 1D Beam Scanning**

Venkatachalam P., Daniel Yumnam, Sushma Gali,
Mruthyunjaya K. Swamy, Shankar Kumar Selvaraja

5:30pm - 5:45pm

**Voltage-controllable second-order susceptibility
in arsenic sulfide film**

Laurids Wardenberg, Benito Bunk, Georg von Freymann,
Jörg Schilling

5:45pm - 6:00pm

**Nanomechanical phase shifting on a gallium
arsenide platform**

Celeste Qvotrup, Rodrigo Thomas, Zhe Liu, Marcus
Albrechtsen, Arne Ludwig, Andreas Wieck, Leonardo
Midolo

5:45pm - 6:00pm

**Second Harmonic Generation and $\chi(2)$ Cascading
in Periodically Poled MgO:LiNbO₃ Photonic Wires**

Halvor Fergestad, Daiheng Fu, Muhammed Alqedra,
Kore Hasse, Detlef Kip, Val Zwiller, Katia Gallo

7:30pm

Conference Dinner

Location: **Restaurant Ratskeller**

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10:00pm

Date: Wednesday, 19/June/2024

8:00am -	Registration III Location: Foyer	
9:00am -	Plenary III Location: Ford + Generali Rooms	
10:30am	9:00am - 9:45am Plasmonics for Integrated Optics <u>Juerg Leuthold</u>	
	9:45am - 10:30am Advances in electro-optical components for datacom and sensing applications <u>Anna Tatarczak</u>	
10:30am -	Coffee Break III Location: Foyer	
11:00am -	FORD IIIA: Lasers Location: Ford Room	GENERALI IIIA: Thin Film Lithium Niobate, Assembly & Test Location: Generali Room
12:30pm	11:00am - 11:30am 3D integration enabling ultra-low noise isolator-free lasers in silicon photonics <u>Chao Xiang</u>	11:00am - 11:30am Integrated and nonlinear photonics in thin film lithium niobate <u>Katia Gallo</u>
	11:30am - 11:45am Widely tunable external cavity laser across the 1634-1777nm spectrum with sub-kHz linewidth <u>Fathema Farjana</u> , Albert Van Rees, Dimitri Geskus	11:30am - 11:45am Standardized TFLN Photonic Integrated Circuits Platform Hamed Sattari, Ivan Prieto, <u>Homa Zarebidaki</u> , Jacopo Leo, Gregory Choong, Mattia Orvietani, Fatemeh Arefi, Alberto Della Torre, Yves Petremand, Michele Palmieri, Olivier Dubochet, Michel Despont
	11:45am - 12:00pm External Cavity 637-nm Laser with Increased RSOA-to-PIC Alignment Tolerance and a Filtered Sagnac-Loop Reflector with Single Output Waveguide <u>Georgios Sinatkas</u> , Arijit Misra, Florian Merget, Jeremy Witzens	11:45am - 12:00pm Compact silicon-rich SiN/LiNbO3 Mach Zehnder and microring modulators. <u>Clément BEN BRAHAM</u> , Ali BELAROUCI, Carlos ALONSO-RAMOS, Régis OROBTCHOUK, Laurent VIVIEN, Yohan DESIERES
	12:00pm - 12:15pm Widely Tunable GaSb/Si3N4 Vernier Hybrid Laser Emitting Around 2.55 μm <u>Samu-Pekka Ojanen</u> , Nouman Zia, Jukka Viheriälä, Eero Koivusalo, Joonas Hilska, Heidi Tuorila, Mircea Guina	12:00pm - 12:15pm Foundry Fabricated Thin-Film Lithium Niobate Electro-Optic Modulators for Blue Light <u>Tianyi Liu</u> , Vahid Ansari, Engjell Bebeti, John N. Straguzzi, Alperen Govdeli, Wesley D. Sacher, Joyce K. S. Poon
	12:15pm - 12:30pm Pound-Drever-Hall laser frequency stabilization of tunable 1.55μm monolithically integrated semiconductor lasers using an integrated phase modulator. <u>Rachel A. Jones</u> , Kevin A. Williams, Erwin A. J. M. Bente	12:15pm - 12:30pm Repeatability of automated edge coupling for wafer level testing <u>Anna Peczek</u> , Tino Minner, Quan Yuan, Christian Mai, Dan Rishavy, Lars Zimmermann
12:30pm -	Lunch III Location: Foyer	
2:00pm		

<p>2:00pm - 3:30pm</p>	<p>FORD IIIB: Lasers & Isolators Location: Ford Room</p> <p>2:00pm - 2:15pm High power 1.8 W tunable laser based on CMOS compatible power amplifier <u>Neetesh Singh</u>, Jan Lorenzen, Muharrem Kilinc, Kai Wang, Milan Sinobad, Henry Francis, Michael Geiselmann, Umit Demirbas, Mikhail Pergament, Sonia Garcia-Blanco, Franz Kaertner</p>	<p>GENERALI IIIB: Assembly & Test, Free Space Location: Generali Room</p> <p>2:00pm - 2:30pm Advanced transfer printing for the integration of micron-scale devices <u>Michael Strain</u></p>
	<p>2:15pm - 2:30pm Micro-transfer-printed O-band GaAs QD-on-Si widely tunable laser <u>Jing Zhang</u>, Yang Liu, Ali Uzun, Evangelia Delli, Laurens Bogaert, Senbiao Qin, Konstantin Morozov, Sergey Mikhrin, Johanna Rimböck, Ruggero Loi, Peter Ossieur, Guy Lepage, Peter Verheyen, Dimitrios Velenis, Chiara Marchese, Joris Van Campenhout, Geert Morthier, Gunther Roelkens</p>	<p>2:30pm - 2:45pm Demonstration of micro-transfer printing thick optical components on glass and silicon wafers <u>Saif Wakeel</u>, Padraic E. Morrissey, HowYuan Hwang, Peter O'Brien</p> <p>2:45pm - 3:15pm Cutting-edge Integrated Photonics in Space <u>Caterina Ciminelli</u></p>
	<p>2:30pm - 2:45pm Widely tunable laser on IMOS platform <u>Tasfia Kabir</u>, Yi Wang, Stefano Tondini, Yuqing Jiao, Kevin Williams, Maritjn Heck</p>	<p>3:15pm - 3:30pm Automatic Real-Time Configuration of a 15-channel Free-Space Optical Receiver with a Fully Integrated CMOS Controller <u>Emanuele Sacchi</u>, Francesco Zanetto, Andres Ivan Martinez Rojas, SeyedMohammad SeyedinNavadeh, Francesco Morichetti, Andrea Ivano Melloni, Marco Sampietro, Giorgio Ferrari</p>
	<p>2:45pm - 3:00pm Ultrafast tunable photonic integrated E-DBR Pockels laser <u>Anat Siddharth</u>, Simone Bianconi, Zheru Qiu, Rui N. Wang, Mohammad J. Beryhi, Tobias J. Kippenberg, Johann Riemensberger</p>	
<p>3:30pm - 4:30pm</p>	<p>3:00pm - 3:30pm THz Bandwidth Nonmagnetic Isolators in Silicon <u>Peter Rakich</u></p> <p>Poster III Location: Foyer</p> <p>On-chip calibration of an optical phased array through chip facet reflections <u>Marco Gagino</u>, Alonso Millan-Mejia, Erwin Bente, Victor Dolores-Calzadilla</p> <p>Polymer-Ge hybrid waveguide for flexible photonic integration <u>Jinyuan Liu</u>, Zhenming Ding, Ziyang Zhang</p> <p>Analyzing frequency combs in multi-section hybrid silicon quantum dot laser using Hanbury Brown-Twiss measurements <u>Mingzhao Shi</u>, Shihao Ding, Heming Huang, Geza Kurczveil, Raymond G. Beausoleil, Frédéric Grillot</p> <p>Development of PECVD SiN thin films for integrated photonic applications on 300 mm wafers <u>Margarita Lapteva</u>, Vinya Vibhuti, Mircea-Traian Catuneanu, Jens Knobbe, Peter Reinig, Sascha Bönhardt, Kambiz Jamshidi</p> <p>Discretely Tunable GaSb/Si3N4 Hybrid Laser Emitting at 2594, 2629, and 2670 nm <u>Samu-Pekka Ojanen</u>, Nouman Zia, Jukka Viheriälä, Eero Koivusalo, Joonas Hilska, Heidi Tuorila, Mircea Guina</p>	

Low-loss, buried InGaAs/InP integrated waveguides operating in a wide mid-infrared range

Miguel Montesinos-Ballester, Lucius Miller, Victor Turpaud, Elsa Joechl, Mathieu Bertrand, Delphine Marris-Morini, Emilio Gini, Jerome Faist

Study of a SiN microresonator with a variable coupler at 1550 nm

Sylvain Boust, Jonathan Faugier-Tovar, Sylvain Guerber, Quentin Wilmart, François Duport, Frédéric Van Dijk

Electro-Optic Modulator in Thin-Film Lithium Niobate Foundry Process

Alberto Della Torre, Homa Zarebidaki, Jacopo Leo, Arno Mettraux, Gregory Choong, Mattia Orvietani, Yves Petremand, Ivan Prieto, Olivier Dubochet, Michel Despont, Hamed Sattari

Monolithically integrated active/passive GaAs laser platform including high-Q ring resonators

Jan-Philipp Koester, Hans Wenzel, Jörg Fricke, Poojitha Sammeta, Olaf Brox, Matthias Reggentin, Pietro Della Casa, Markus Weyers, Andrea Knigge

Integrated photonic in-plane beam converter for Bessel-Gaussian beam generation

Jaewhan Lee, Jae-hoon Lee, Sangsik Kim

Aluminium nitride integrated photonics for the infrared spectral range

Soheila Mardani, Bjorn Jongebloed, Meindert Dijkstra, Sonia García-Blanco

Additive manufacturing of strip-loaded thin-film lithium niobate waveguides by means of two-photon polymerization

Alexandra Rittmeier, Elisavet Chatzizyrlis, Angeliki Afentaki, Jörg Neumann, Andreas Wienke, Dietmar Kracht, Michael Kues, Moritz Hinkelmann

Integrated GeSn Heterojunction Phototransistor on Si

Michael Oehme, Christian Spieth, Sören Schäfer, Maurice Wanitzek, Lukas Seidel, Michael Hack, Erich Kasper, Daniel Schwarz

Self-Aligned Fibre-to-Chip Edge Coupling Structure with Suspended Taper

Imene Si Hadi Mohand, Paul Baroux, Etienne Herth, Abdelmounaim Harouri, Jean René Coudeville, Xavier Checoury

Silicon Photonic Wafer-Scale Yield of Single Mode Resonator with Broadband DBR Mirrors

Arnab Goswami, Pratyasha Priyadarshini, Gan Yih Loong, Ng Chew Yan, Deleep Nair, Anjan Chakravorty, Bijoy Krishna Das

Silicon nitride C-band grating coupler with reduced waveguide back-reflection using adaptively corrected elliptical grates

Ibrahim Ghannam, Florian Merget, Jeremy Witzens

Spot Size Converters for Enhanced Coupling Efficiency between Single Mode Fibers and High-Confinement Si₃N₄ Waveguides

Klara Mihov, Aron Elias Lutz, Moritz Kleinert, Martin Kresse, Daniel Preuß, Jakob Reck, David de Felipe, Tianwen Qian, Madeleine Weigel, Csongor Keuer, Philipp Winklhofer, Crispin Zawadzki, Norbert Keil, Martin Schell

<p>4:30pm - 6:00pm</p>	<p>Highly flexible dielectric platform for post-CMOS photonics <u>Marcus Westhues</u>, Thomas Gerschke, Julia Hauser, Roman Burkard, Aleksandar Nestic, Anna Lena Schall-Giesecke</p> <p>FORD IIIC: Amplifiers and EO Devices Location: Ford Room</p> <p>4:30pm - 4:45pm External net gain in monolithically integrated Si₃N₄-Al₂O₃:Er³⁺ spiral waveguide amplifiers Dawson Bonneville, <u>Carlos E Osornio</u>, Ivo Hegeman, Quentin Coulad, Meindert Dijkstra, Sonia M Garcia-Blanco</p>	<p>GENERALI IIIC: Free Space Location: Generali Room</p> <p>4:30pm - 4:45pm Integrated Mode-Selective Repeater for Free-Space Optical Communications <u>Seyedmohammad Seyedinnavadeh</u>, Alessandro di Tria, Francesco Zanetto, Giorgio Ferrari, Marco Sampietro, Andrea Melloni, Francesco Morichetti</p>
	<p>4:45pm - 5:15pm High-Speed Conductive Oxide Modulator with Sub-Volt Driving Voltage <u>Alan Wang</u></p>	<p>4:45pm - 5:15pm New integrated LiDAR technology using chip-integrated beam steering and frequency-angular imaging <u>Mo Li</u></p>
	<p>5:15pm - 5:30pm III-V electro-absorption modulation and detection devices integrated to 220 nm silicon-on-insulator <u>Owen Moynihan</u>, Samir Ghosh, James O Callaghan, Brendan Roycroft, Kevin Thomas, Emanuele Pelucchi, Brian Corbett</p>	<p>5:15pm - 5:30pm Wavefront shaper based on integrated photonics <u>Filip Milojković</u>, Niels Verellen, Roelof Jansen, Frederic Peyskens, Mathias Prost, Jon Øyvind Kjellman, Xavier Rottenberg, Pol Van Dorpe</p>
	<p>5:30pm - 5:45pm Ge-fin Photodiodes with 3-dB Bandwidths well beyond 110 GHz for O-Band Receiver Subsystems <u>Daniel Steckler</u>, Stefan Lischke, Anna Peczek, Lars Zimmermann</p>	<p>5:30pm - 5:45pm Silicon Nitride Metalenses at Near-Infrared Wavelengths Manufactured Using Deep-Ultraviolet Scanner Lithography <u>David De Vocht</u>, Luise Armbruster, Alonso Millan-Mejia, Angel Savov, Yuqing Jiao, Erwin Bente</p>
	<p>5:45pm - 6:00pm Integrated-SiGe waveguide photodetector in the 5.2-10 μm wavelength range operating at room temperature <u>Thi Hao Nhi Nguyen</u>, Victor Turpaud, Natnicha Koompai, Jonathan Peltier, Stefano Calcaterra, Giovanni Isella, Jean-René Coudeville, Carlos Alonso-Ramos, Laurent Vivien, Jacopo Frigerio, Delphine Marris-Morini</p>	<p>5:45pm - 6:00pm Chirped Bragg gratings for on chip pulse compression in the mid-infrared wavelength range <u>Annabelle BRICOUT</u>, Victor TURPAUD, Thi-Hao-Nhi NGUYEN, Hamza DELY, Natnicha KOOMPAL, Stefano CALCATERRA, Jacopo FRIGERIO, Samson EDMOND, Jean-René COUDEVILLE, Etienne HERTH, Carlos ALONSO-RAMOS, Laurent VIVIEN, Giovanni ISELLA, Delphine MARRIS-MORINI</p>
<p>6:00pm - 6:30pm</p>	<p>Awards & Closing Ceremony Location: Ford + Generali Rooms</p>	