

Monday, June 22

Co-Event ECIO / ePIXfab

1:00 PM	04:00	<p>DESIGN TOOLTRAINING:</p> <ul style="list-style-type: none"> - Lucedá - Lumerical - NazcaDesign - PhotonDesign - VPIPhotonics 	3:00 PM	02:00	<p>ePIXfab/JePPIX WORKSHOP</p> <p>Chairs: Roel Baets (Ghent University - imec, Belgium) and Kevin A. Williams (Technical University of Eindhoven, The Netherlands)</p> <p>Will MPW-service for integrated photonics grow or decline in the next 10 years?</p>

Tuesday, June 23

Opening remarks

Chairs: Delphine Marris-Morini and Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)

Plenary session 1

Chair: Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)

8:50 AM		<p>Roel Baets Ghent University - imec (Belgium)</p>		<p>Silicon photonics (academic perspective)</p>							
		<p>Keynote session 1 Chair: Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)</p>									
9:45 AM	00:30	<p>Wolfram Pernice University of Münster (Germany)</p>		<p>Phase change materials for neuromorphic computing</p>							
Break											
<p>Session 1 // Heterogeneous integration Chair: Daoxin Dai (Zhejiang University, China)</p>			<p>Session 2 // Sensing , spectroscopy and biophotonics Roel Baets (Ghent University - imec, Belgium)</p>								
10:45 AM	00:30	<p>Tetsuya Mizumoto Tokyo Institute of Technology (Japan)</p>		10:45 AM	00:15	<p>Dan Yi, Yaojing Zhang, Xinru Wu and Hon Ki Tsang Department of Electronic Engineering, The Chinese University of Hong Kong, Shatin, NT, Hong Kong SAR</p>		<p>Integrated Photonic Lantern for Speckle Spectroscopy</p>			
11:15 AM	00:15	<p>Mikhail Churav1, Simon Hönl2, Rui Ning Wang1, Charles Möhl2, Tianyi Liu1, J. Connor Skehan1, Johann Riemensberger1, Daniele Cairi2, Junqiu Liu1, Paul Seidler2, Tobias J. Kippenberg1 1 Swiss Federal Institute of Technology Lausanne (EPFL), Lausanne, Switzerland 2 IBM Research - Zurich, CH-5800, Rüschlikon, Switzerland</p>		<p>Hybrid silicon nitride-lithium niobate integrated platform for electro-optic conversion</p>		11:00 AM	00:15	<p>Lucas Deniel1, Erwan Weckenmann2, Diego Pérez Galacho1,+, Laurent Bramerie2, Carlos Alonso-Ramos1, Frédéric Boeuf3, Laurent Vivien1, Christophe Peucheret2, Delphine Marris-Morini1 1 Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120 Palaiseau, France 2 Univ Rennes, CNRS, FOTON - UMR 6082, F-22305 Lannion, France 3 ST Microelectronics, 850 rue Jean Monnet, 38920 Crolles, France</p>		<p>Tunable optical dual-comb experiments using silicon Mach-Zehnder modulators</p>	
11:30 AM	00:15	<p>Lukas Van Iseghem 1,2, Umar Khan 1,2, Pierre Edinger 3 , Carlos Errando-Herranz 3 , Alain Yuji Takabayashi 4, Hamed Sattari 4, Kristinn B. Gylfason 3, Niels Quack 4, Jeroen Beeckman 2, 5 and Wim Bogaerts 1, 2 1 Photonics Research Group, Ghent University-IMEC, Ghent, Belgium 2 Center of Nano and Biophotonics, Ghent, Belgium 3 KTH Royal Institute of Technology, Stockholm, Sweden. 4 Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, Switzerland. 5 Liquid Crystal and Photonics, Ghent University, Ghent, Belgium</p>		<p>Liquid crystal phase shifter integrated in a silicon photonics platform</p>		11:15 AM	00:30	<p>Laura Lechuga Catalan Institute of Nanoscience and Nanotechnology (Spain)</p>		<p>(INVITED) Optical biosensors</p>	
11:45 AM	00:15	<p>A.A. Kashi1, J.J.G.M. van der Tol1, Y. Jiao1 and K.Williams1 1 Institute for Photonic Integration (IPI), Eindhoven University of Technology, the Netherlands</p>		<p>Electro-Optic Slot Waveguide Phase Modulator in the IMOS platform</p>		11:45 AM	00:15	<p>Albert van Rees1, Cornelis A. A. Franken1, Youwen Fan1, Dimitri Geskus2, Ronald Dekker2, Douwe H. Geuzbroek2, Carsten Fallnich3, Peter J. M. van der Slot1, and Klaus-J. Boller1 1 Laser Physics and Nonlinear Optics, Faculty of Science and Technology, MESA+ Institute of Nanotechnology, University of Twente, Enschede, The Netherlands 2 Lionix International BV, Enschede, The Netherlands 3 Institute of Applied Physics, University of Münster, Münster, Germany</p>		<p>Realization of a Hybrid Integrated Diode laser for Visible Light</p>	
12:00 PM	00:15	<p>Alicia Ruiz-Cardad1, Guillaume Marcaud1, Jianhao Zhang1, Christian Lafforgue1, Joan Manel Ramirez3, Elena Durán-Valdeiglesias1, Ludovic Largeau1, Thomas Maroutian1, Sylvia Matzen1, Stephane Collin1, Carlos Alonso-Ramos1, Guillaume Agnus1, Sylvain Guerber1,4, Charles Baudot4, Frédéric Boeuf4, Vladyslav Vakarín , Eric Cassan1 , Delphine Marris-Morini1, Philippe Leocour1, Laurent Vivien1 1 Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies (C2N), Palaiseau, France 2 ILL-V lab, a joint lab from Nokia Bell Labs, Thales and CEA, 1 avenue Augustin Fresnel, 91767 Palaiseau Cedex 3 TR&D STMicroelectronics SAS, Crolles, 38920, France</p>		<p>Erbium-doped oxide for optical gain on hybrid silicon photonics platforms</p>		12:00 PM	00:15	<p>Mahir Asif Mohammed1, F.A. de Bot1, Oded Raz1 1 Electro-Optical Communications Group, Dept. of Electrical Engineering, Eindhoven University of Technology, Eindhoven</p>		<p>Highly Sensitive and Fast Responsive Photonic Integrated Relative Humidity Sensor using Porous SiO2 Cladding</p>	
12:15 PM	00:15	<p>Jorge Parra1, Todora Angelova1, Mariela Menghini2,3, Pia Homm2, Jean-Pierre Locquet2, Pablo Sanchis1 1 Nanophotonics Technology Center, Universitat Politècnica de València, Camino de Vera s/n, 46102 Valencia, Spain 2 Department of Physics and Astronomy, KU Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium 3 IMDEA Nanociencia, Calle Faraday 9, E28049, Madrid, Spain</p>		<p>Ultra-compact low-power hybrid VO2/Si waveguide switch</p>		12:15 PM	00:15	<p>Luis Torrijos-Moran, Paula Martinez-Perez and Jaime Garcia-Ruperez Nanophotonics Technology Center, Universitat Politècnica de València, Camino de Vera s/n, 46102 Valencia, Spain</p>		<p>Real-time functionalization and biosensing in subwavelength grating bimodal waveguides</p>	
12:30 PM	00:30	<p>Skylar Deckoff-Jones MIT (USA)</p>		<p>(INVITED) 2-D material photonic integration</p>							
Break											

13:15 - 14:15	Poster Session 1 // Light sources and amplifiers Chair: Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)	13:15 - 14:15	Poster Session 2 // New technology, new materials, new modeling for nonlinear and passive devices Chair: Delphine Marris-Morini (Univ. Paris Saclay, CNRS, C2N, France)
Arab N 1, Poette J 1, Bastard L 1, Broquin J-E 1 <small>1Univ. Grenoble Alpes, CNRS, Grenoble INP, IMEP-LAHC, 38000 Grenoble, France</small>	Dual wavelength Y-junction glass integrated waveguides for mm-wave carrier generation		Chupao Lin 1, 2, David Schaubroeck 3, Gunther Roelkens1, 2, Roel Baets1, 2 and Nicolas Le Thomas1, 2 <small>1 Photonics Research Group, INTEC Department, Ghent University-imec, Technologiepark-Zwijnaarde, 9052 Ghent, Belgium 2 Center for Nano- and Biophotonics, Ghent University, Belgium 3 Centre of Microsystems Technology (CMST), imec and Ghent University, Technologiepark 126, B-9052 Zwijnaarde, Belgium</small>
Aref Rasoulzadeh Zali1, Steven Kleijn2, Luc Augustin2, Ripalta Stabile1, Nicola Calabretta1 <small>1 IPHECO research institute, Eindhoven University of Technology, Eindhoven, the Netherlands 2 Smart Photonics, High Tech Campus, Eindhoven, the Netherlands</small>	Low Polarization Sensitive Semiconductor Optical Amplifier Co-Integrated with Passive Waveguides for Optical Datacom and Telecom Networks		Jianhao Zhang,1 Carlos Alonso-Ramos,1 Laurent Vivien,1 Sailing He,2 Eric Cassan1 <small>1 Université Paris-Saclay, Univ. Paris-Sud, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120 Palaiseau, France. 2 State Key Laboratory for Modern Optical Instrumentation, Centre for Optical and Electromagnetic Research, Zhejiang Campus, Zhejiang University, Hangzhou 310058, China</small>
Qin Zou, Kamel Merghem, Badr-Edine Benkelfat, Musharrat Shabnam Samovar, CNRS, Télécom SudParis, Institut Polytechnique de Paris, 19 place Marguerite Perey, 91120 Palaiseau, France	Bifurcation and Chaotic Behavior of Feedback Semiconductor Lasers Operating in the Full Range of External Reflectivity		Pragati Aashna1 and K Thyagarajan2 <small>1Department of Physics, Indian Institute of Technology Delhi, Delhi, 110016 2Department of Physics, School of Engineering and Applied Sciences, Bennett University, Greater Noida, UP, 201310</small>
Julio Dario López1, Dan Zhao2,3, Mu-Chieh Lo4,*, Robinson Guzmán1, Xaveer Leijtsens2, and Guillermo Carpintero1 <small>1Universidad Carlos III de Madrid, Leganés, Spain 2Technische Universiteit Eindhoven, Eindhoven, Netherlands 3Now with ASML, Veldhoven, Netherlands 4University College London, London, UK</small>	Narrow-Linewidth DBR Laser Using Open-Access High-Precision Grating in InP PIC Generic Foundry Platform		Benedicto D1, Dias A2, Martín JC1, Vallés JA2, Solís J2 <small>1 Department of Applied Physics and 3IA, Faculty of Sciences, University of Zaragoza, C/ Pedro Cerbuna 12, 50009 Zaragoza (Spain). 2 Laser Processing Group, Instituto de Óptica "Daza de Valdes", CSIC, C/ Serrano 121, 28006 Madrid (Spain).</small>
Mariangela Gioannini1, Lorenzo Columbo1, Antonino Bologna1, Marco Novaresi1, Sebastian Romero- Garcia2, Dominic Siriani2, Jock Bovington2 <small>1 Department of Electronics and Telecommunication, Politecnico di Torino (Italy) 2 Cisco Systems, San Jose, CA, (US)</small>	Design of hybrid lasers for silicon photonics: efficiency, optical feedback tolerance and laser dynamics		J.-B. Dory1,2, J.-Y. Raty1,3, M. Ibnoussina2, J.-B. Jager4, A. Verdy1, F. d'Acipito5, M. Tessaire1, M. Bernard1, P. Colman2, A. Coillet2, B. Cluzet2 and P. Noé1 <small>1 Univ. Grenoble Alpes, CEA, LETI, F-38000 Grenoble, France. 2 ICB, UMR CNRS 5209, Université de Bourgogne Franche Comté, 21078 Dijon cedex, France 3 CESAM-Physics of Solids Interfaces and Nanostructures, B5, Université de Liège, Belgium. 4 Univ. Grenoble Alpes, CEA, INAC, F-38000 Grenoble, France. 5 CNRS-IOA-CEG-CEA-ESRF - The European Synchrotron, F-38043 Grenoble, France.</small>
Junfei Xia, Qixiang Cheng*, Tongyun Li, Richard V. Penty <small>Centre for Photonic Systems, Electrical Engineering Division, Department of Engineering, University of Cambridge, 9 JJ Thomson Avenue, Cambridge CB3 0FA, UK.</small>	The Design of Hybrid III-V on Silicon Optical Switch based on Mach-Zehnder and SOA Switching Elements		Glukhov I.A., Moiseev S.G., Dadoenkova Yu.S., Bentivegna F.F.L. <small>1 Lab-STICC (UMR 6285), CNRS, ENIB, CS 73862, Brest Cedex 3, France 29238 2 Ulyanovsk State University, 42 Leo Tolstoy str., Ulyanovsk, Russia 432017 3 Kotelnikov Institute of Radio Engineering and Electronics of the Russian Academy of Sciences, Ulyanovsk Branch, 48/2 Goncharov Str., Russia 432011 4 Ulyanovsk State Technical University, 32 Severnyy Venetz str., Ulyanovsk, Russia 432027</small>
E. Malysheva, A. Fiore, K.A.Williams, V.Dolores-Calzadilla <small>Institute for Photonic Integration, Eindhoven University of Technology, Eindhoven, The Netherlands</small>	Manufacture-compliant InP-based metal cavity nanolaser design		W.A.P.M. Hendriks, M. Dijkstra, C.I. van Emmerik, I. Hegeman S.M. Garcia-Blanco <small>MESA+ Institute, University of Twente, P.O. Box 217, 7550 AE, Enschede, The Netherlands</small>
Jack Mulcahy 1,2, John McCarthy1,2, Mohamad Dernaika 3, Albert A. Ruth 4, Sathesh Chandran 4, Prince M. Anandarajah 5, Eamonn P. Martin 5, Justin K. Alexander 6 & Frank H. Peters 1,2 <small>1Tyndall National Institute, Lee Maltings, Cork, Ireland 2Physics Department, University College Cork, Ireland 3Rockley Photonics Ireland, Lee Mills House, Lee Maltings, Cork, Ireland 4Physics Department & Environmental Research Institute, University College Cork, Cork, Ireland 5School of Electronic Engineering, Dublin City University, Glasnevin, Dublin 9, Ireland</small>	Monolithically Integrated Wavelength Tunable Dual Comb Source using Gain Switching		Zhengkai Jia1, Hua Yang2, Hui Wang1, Xing Dai1, Alison H. Perrott1,2, Frank H. Peters1,3 <small>1 Integrated Photonics Group, Tyndall National Institute, Cork, Ireland. 2Rockley Photonics Ireland, Cork, Ireland 3 Department of Physics, University College Cork, Cork, Ireland.</small>
Juan Navarro-Arenas, 1 Andrés F. Gualdrón-Reyes,2-3 Vladimir S. Chirvony, 1 Iván Mora-Seró,2 Juan Martínez-Pastor1 and Isaac Suárez 4 <small>1 Instituto de Ciencia de Materiales (ICMUV), Universidad de Valencia, C/ Catedrático José Beltrán, 2, 46100 Burjassot, Spain. 2 Institute of Advanced Materials (INAM), University Jaume I, Avenida de Vicent Sos Baynat, s/n, 12006 Castellón de la Plana, Castellón, Spain. 3 Biofuels Lab-IBEAR, Faculty of Basic Sciences, University of Pamplona, Pamplona, Colombia. C. P. 543350. 4 Escuela Técnica Superior de Ingeniería, Universidad de Valencia, C/Avenida de la Universidad s/n 46100 Burjassot, Valencia, Spain.</small>	Perovskite Nanocrystals: an Active Material for Integrated Optics		I.V. Kondratyev 1, M. Yu. Saygin 1, I. V. Dyakonov 1, S. S. Straupe 1, S. P. Kulik 1 <small>1 MSU Quantum Technology Centre, Leninskia gory 1, building 35, 119991, Moscow, Russia.</small>
Sander Reniers 1, Kevin Williams 1, Jos van der Tol 1, Yuqing Jiao 1 <small>1Institute for Photonic Integration (IPI), Eindhoven University of Technology</small>	An Accurate Characterization Method for Polarization Converters on the Indium Phosphide Membrane on Silicon Platform		S.M. Kostritskii1, Yu.N.Korkishko1, V.A. Fedorov1, O.G. Sevostyanov2, I.M. Chirkova2, E. Kokanyan3, M. Aillerie4 <small>1RIPC Optolink, Zelenograd, Sosnovaya al. 6A, 124489, Moscow, Russia 2Institute of Basic Sciences, 850000, Kemerovo, Russia 3Institute for Physical Research, Asharak-2, Armenia 4Centrale Supélec, LMOPS, University of Lorraine, Metz, France</small>
Stanislaw Stopiński, Krzysztof Stwice, Witold Pleskacz, Sławomir Szostak, Ryszard Kisiel and Ryszard Piramidowicz <small>Warsaw University of Technology, Institute of Microelectronics and Optoelectronics, Koszykowa 75, 00-662 Warsaw, Poland</small>	Hybrid Integration of a Single-Frequency Ring Laser with a Microelectronic Driver		Habib Mohamad 1, Sylvain Blaize 2, Alain Morand 1, Pierre Benech1 <small>1IMEP-LAHC, CNRS, Grenoble-INP, Institute of Engineering Univ. Grenoble Alpes, 38000 Grenoble, France. 2L2n, Université de Technologie de Troyes, 12 rue Marie Curie CS 42080 10004 Troyes Cedex, France.</small>
Zhengrui Tu1, Jianhao Zhang1, John Rönn2, Carlos Alonso-Ramos1, Xavier Leroux1, Laurent Vivien1, Zhipei Sun2, Eric Cassan1 <small>1 Centre de Nanosciences et de Nanotechnologies (C2N), Université Paris Saclay, Université Paris Sud, CNRS, 91120 Palaiseau, France 2 Department of Electronics and Nanoengineering, Aalto University, Tietoeitie 3, FI-00076 Espoo, Finland</small>	Prospect for compact on-chip lasing with hybrid erbium-doped silicon integration		Paramita Pal1*, E. Kumi Barimah1, Benjamin Dawson2 and Gin Jose1 <small>1School of chemical and process engineering, University of Leeds, LS2 9JT, UK</small>
Vincent Pelgrin1,2, Yuchen Wang2, Carlos Ramos1, Laurent Vivien1, Zhipei Sun2, Eric Cassan1 <small>1Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France 2 Department of Electronics and Nanoengineering, Aalto University, P.O. Box 13500, FI-00076 Aalto, Finland</small>	Kerr effect enhancement through hybrid integration of 2D materials on the silicon platform		R.Peyton 1, 2, D. Presti 1, 2, F. Videla 1 and G.A. Torchia 1, 2 <small>1 Centro de Investigaciones Ópticas (CONICET-CIC-UNLP) Camino Centenario y 506, s/n, M.B. Gonnet (1897), Buenos Aires, Argentina 2 Departamento de Ciencia y Tecnología, Universidad Nacional de Quilmes, Roque Saenz Peña 352, Bernal (1876), Buenos Aires, Argentina</small>
Dura Shahwar, Matteo Cherchi, Mikko Harjanne, and Timo Aalto <small>VTT Technical Research Centre of Finland</small>	Polarization splitter based on form birefringence for micron-scale Silicon photonics		Kang Wang <small>Université Paris-Saclay, CNRS, Laboratoire de Physique des Solides, 91405, Orsay, France</small>
			Valley-polarized beam propagation in metallic photonic graphene

Break			
Session 3 // Integrated non linear photonics Chair: Sonia Garcia-Blanco (University of Twente, The Netherlands)		Session 4 // Mid-IR photonics Chair: Inigo Molina-Fernandez (Malaga University, Spain)	
2:30 PM	00:30	Camille Bres EPFL (Switzerland)	(INVITED) Supercontinuum generation in SiN
3:00 PM	00:15	Junqiu Liu ¹ , Hao Tian ² , Erwan Lucas ¹ , Arslan S. Raja ¹ , Grigory Lihachev ¹ , Rui Ning Wang ¹ , Jijun He ¹ , Tianyi Liu ¹ , Miles H. Anderson ¹ , Wenle Weng ¹ , Sunil A. Bhawe ² , and Tobias J. Kippenberg ¹ ¹ Institute of Physics, Swiss Federal Institute of Technology Lausanne (EPFL), CH-1015 Lausanne, Switzerland ² OxideMEMS Lab, Purdue University, 47907 West Lafayette, IN, USA	Monolithic piezoelectric control of soliton microcombs
3:15 PM	00:15	Anton Lukashchuk ¹ , Johann Riemensberger ¹ , Maxim Karpov ¹ , Erwan Lucas ¹ , Wenle Weng ¹ , Junqiu Liu ¹ , Tobias Kippenberg ¹ ¹ Institute of Physics (IPHY), Swiss Federal Institute of Technology in Lausanne (EPFL), CH-1015 Lausanne, Switzerland	Microresonator Soliton based parallel FMCW LiDAR
3:30 PM	00:15	Samuel Serna ^{1,2,3} , Hongtao Lin ³ , Carlos Alonso-Ramos ² , Xavier Le Roux ² , Kathleen A. Richardson ⁴ , Eric Cassan ² , Nicolas Dubreuil ^{5,6} , Juejun Hu ³ , and Laurent Vivien ² ¹ Department of Physics, Bridgewater State University, Bridgewater, Massachusetts 02325, USA ² Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France ³ Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA ⁴ College of Optics and Photonics-CREOL, University of Central Florida, Orlando, Florida 32816, USA ⁵ Laboratoire Charles Fabry, Institut d'Optique Graduate School, CNRS, Université Paris Saclay, 2 Avenue Augustin Fresnel, 91127 Palaiseau cedex, France ⁶ LP2N, Institut d'Optique Graduate School, CNRS, Univ. Bordeaux, 33400 Talence, France	A hybrid chalcogenide-on-silicon platform for nonlinear photonics
2:30 PM	00:15	Samu-Pekka Ojanen ¹ , Jukka Viheriää ¹ , Matteo Cherchi ² , Nouman Zia ¹ , Eero Koivusalo ¹ , Pentti Karioja ³ and Mircea Guina ¹ ¹ Optoelectronics Research Centre, Physics Unit, Tampere University, FI-33720 Tampere, Finland ² VTT Technical Research Centre of Finland, FI-02044 Espoo, Finland ³ VTT Technical Research Centre of Finland, FI-00570 Oulu, Finland	Widely Tunable 2.6 μm GaSb Diode Lasers Utilizing Diffraction Gratings or Silicon Photonics Reflectors
2:45 PM	00:15	Alberto Della Torre ¹ , Milan Sinobad ^{1,2} , Rémi Armand ¹ , Barry Luther-Davies ³ , Pan Ma ³ , Stephen Madden ³ , Sukanta Debbarma ³ , Khu Vu ³ , David J. Moss ⁴ , Arnan Mitchell ² , Jean-Michel Hartmann ⁵ , Jean-Marc Fedeli ⁵ , Christelle Montat ¹ , Christian Grillet ¹ ¹ Université de Lyon, Institut des Nanotechnologies de Lyon (INL), 69131 Ecully, France ² School of Engineering, RMIT University, Melbourne, VIC 3001, Australia ³ Laser Physics Center, Australian National University, Canberra, ACT 0100, Australia ⁴ Centre for Microphotonics, Swinburne University of Technology, Hawthorn, VIC 3122, Australia ⁵ Université Grenoble Alpes, CEA-Leti, 38054 Grenoble Cedex 9, France	Dispersion Trimming for Mid-Infrared Supercontinuum Generation in Silicon-Germanium on Silicon Waveguides
3:00 PM	00:30	Jérôme Faist ETH Zurich (Switzerland)	(INVITED) Quantum cascade lasers
3:30 PM	00:15	Miguel Montesinos-Ballester ¹ , Qiankun Liu ¹ , Carlos Alonso-Ramos ¹ , Xavier Le Roux ¹ , Lucas Deniel ¹ , David Bouville ¹ , Jacopo Frigerio ² , Andrea Ballabio ² , Laurent Vivien ¹ , Giovanni Isella ² , and Delphine Marris-Morini ¹ ¹ Université Paris-Saclay, Univ. Paris-Sud, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France ² L.N.ESS, Dipartimento di Fisica, Politecnico di Milano, Polo di Como, Via Anzani 42, 22100 Como, Italy	Optical modulation from 5 to 11 μm wavelength range using Ge-rich graded SiGe waveguides

Break			
Keynote session 2 Chair: Carlos Alonso-Ramos (Univ. Paris Saclay, CNRS, C2N, France)			
4:15 PM	00:30	Lionel Kimerling MIT (USA)	Roadmapping of integrated photonics
Session 5 // Optomechanics and On chip Plasmonics Chair: Eric Cassan (Univ. Paris Saclay, CNRS, C2N, France)		Session 6 // Transceivers and high speed devices Chair: Patrick Runge (Fraunhofer-Heinrich Hertz Institute, Germany)	
4:45 PM	00:30	Dvir Munk Bar-Ilan University (Israel)	(INVITED) Surface acoustic wave-photonic devices in standard silicon-on-insulator
5:15 PM	00:15	L. Mercade ¹ , L. L. Martin ^{1,2} , A. Griol ¹ , D. Navarro-Urrios ² , A. Martinez ¹ ¹ Nanophotonics Technology Center, Universitat Politècnica de València, Camino de Vera s/n, 46022 Valencia, Spain ² Departamento de Física, Facultad de Ciencias, Universidad de la Laguna ³ MIND-INLUB, Departament d'Enginyeria Elèctrica i Biomèdica, Facultat de Física, Universitat de Barcelona, Martí i Franquès 1, 08028 Barcelona, Spain	Frequency comb and microwave generation with a full phononic bandgap 1D optomechanical crystal cavity
5:30 PM	00:15	Dror Weisman ¹ , Ady Arie ¹ ¹ School of Electrical Engineering, Fleischman Faculty of Engineering and the Center for Light Matter Interaction, Tel-Aviv University, Tel-Aviv 6997801, Israel	Dynamic Control of Plasmonic Beams
4:45 PM	00:30	Mark Eamshaw Nokia - Bell Labs (USA)	(INVITED) Challenges and opportunities in photonics/electronics co-packaging for next generation transceivers
5:15 PM	00:15	Daniel Benedkovic ¹ , Léopold Virot ² , Guy Aubin ¹ , Jean-Michel Hartmann ² , Farah Amar ¹ , Bertrand Szlag ² , Xavier Le Roux ¹ , Carlos Alonso-Ramos ¹ , Paul Crozat ¹ , Eric Cassan ¹ , Delphine Marris-Morini ¹ , Charles Baudot ³ , Frédéric Boeuf ³ , Jean-Marc Fédéli ² , Christophe Kopp ² , and Laurent Vivien ¹ ¹ Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France ² University Grenoble, Alpes and CEA, LETI, Grenoble, France ³ STMicroelectronics, Silicon Technology Development, Crolles, France	Silicon-germanium p-i-n photodiodes with double heterojunction: high-speed operation at 10 Gbps and beyond
5:30 PM	00:15	G. Contestabile ¹ , F. Bontempi ¹ , and N. Andriolli ¹ ¹ Scuola Superiore Sant'Anna, Via Moruzzi 1, 56124 Pisa, Italy	240 Gb/s (8x30 Gb/s) Directly Modulated Transmitter Monolithically Integrated on InP
Special session Chair: Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)			
5:45 PM	00:20	Sébastien Tanzilli Institut de Physique de Nice (France)	Nonlinear integrated photonics on lithium niobate - A tribute to Marc De Micheli
6:05 PM	00:20	Oliver Graydon Nature Photonics (UK)	Latest trends of scientific publishing

Wednesday, June 24			
Keynote session 3 Chair: Delphine Marris-Morini (Univ. Paris Saclay, CNRS, C2N, France)			
9:00 AM	00:30	José Capmany Francoy Universitat Politècnica de València (Spain)	Programmable photonic integrated circuits
Session 7 // Integrated light source Chair: Pascual Muñoz (Universitat Politècnica de València, Spain)		Session 9 // Advances passive photonic devices Chair: Timo Aalto (VTT, Finland)	
9:30 AM	00:15	S. Boust ^{1,2} , Y. Ibrahim ¹ , J.-F. Paret ¹ , A. Garreau ¹ , K. Mekhazni ¹ , C. Fortin ¹ , F. Duport ¹ , M. Vallet ² , J.-M. Fedeli ³ , F. van Dijk ¹ ¹ Ili-V Lab, a joint lab between Nokia Bell Labs, Thales Research and Technology and CEA-LETI, 1 Avenue Augustin Fresnel, 91767 Palaiseau, France ² Univ. Rennes, CNRS, Institut FOTON – UMR 6062, 35000 Rennes, France ³ CEA-LETI Univ. Grenoble Alpes, 38000 Grenoble, France	Single-mode and multi-mode DBR lasers using InP-Si3N4/SiO2 integration
9:45 AM	00:15	Bozhang Dong ¹ , Jianan Duan ¹ , Heming Huang ¹ , Geza Kurczveil ² , Di Liang ² , and Frédéric Grillot ^{1,3} ¹ LTCI, Telecom Paris, Institut Polytechnique de Paris, 19 Place Marguerite Perey, 91120 Palaiseau, France ² Hewlett Packard Labs, 1501 Page Mill Rd, Palo Alto, CA 94304, USA ³ Center for High Technology Materials, University of New Mexico, Albuquerque, New-Mexico, 87106, USA	Study of hybrid silicon quantum dot frequency comb laser dynamic for 5G and datcom applications
9:30 AM	00:30	Daoxin Dai Zhejiang University (China)	(INVITED) High Performance Passive Silicon Photonics Building Blocks
10:00 AM	00:15	T. T. D. Dinh ¹ , X. Le Roux ¹ , J. Zhang ¹ , M. Montesinos ¹ , C. Lafforgue ^{1,2} , D. Benedkovic ¹ , P. Cheben ^{3,4} , E. Cassan ¹ , D. Marris-Morini ¹ , L. Vivien ¹ , and C. Alonso-Ramos ¹ ¹ Université Paris-Saclay, Univ. Paris-Sud, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France ² Ecole Normale Supérieure Paris-Saclay, Université Paris-Saclay, 94230 Cachan, France ³ National Research Council Canada, ON K1A0R6 Ottawa, Canada ⁴ Center for Research in Photonics, University of Ottawa, Ottawa K1N6N5, Canada	Dual-metamaterial silicon micro-ring resonators

10:00 AM	00:15	Liwei Tang ¹ , Shuai Shao ¹ , Minghua Chen ¹ , Sigang Yang ¹ , Hongwei Chen ¹ <small>1 Department of Electronic Engineering, Tsinghua University, Beijing, 100084, China</small>	Frequency Modulated Continuous Wave Narrow Linewidth Laser Diode Based on Self-injection locking with External Micro-ring Resonator	10:15 AM	00:15	David González-Andrade ¹ , José Manuel Luque-González ² , J. Gonzalo Wangüemert-Pérez ² , Alejandro Ortega-Moñux ² , Pavel Cheben ³ , Írigo Molina-Fernández ^{2,4} , Aitor V. Velasco ¹ <small>1 Instituto de Óptica Daza de Valdes, Consejo Superior de Investigaciones Científicas (CSIC), Madrid 28006, Spain 2 Departamento de Ingeniería de Comunicaciones, ETSI Telecomunicación, Universidad de Málaga, Málaga 29071, Spain 3 National Research Council Canada, 1200 Montreal Road, Bldg. M50, Ottawa K1A 0R6, Canada 4 Bionand Center for Nanomedicine and Biotechnology, Parque Tecnológico de Andalucía, Málaga 29590, Spain</small>	Ultra-Broadband Passive Phase Shifter Using Anisotropic Subwavelength Metamaterials				
Session 8 // Integrated quantum optics Chair: Sana Pyka (EPIC)				10:30 AM	00:15	José Manuel Luque-González ¹ , Aine Herrero-Bermello ^{2†} , Alejandro Ortega-Moñux ¹ , Marina Sánchez-Rodríguez ¹ , Aitor V. Velasco ² , Jens H. Schmid ³ , Pavel Cheben ³ , Írigo Molina-Fernández ^{1,4} , Robert Hair ^{1,4} <small>1 Universidad de Málaga, Dpto. de Ingeniería de Comunicaciones, ETSI Telecomunicación, Campus de Teatinos s/n, 29071 Málaga, Spain 2 Institute of Optics, Spanish National Research Council, 28006 Madrid, Spain 3 National Research Council Canada, 1200 Montreal Road, Bldg. M50, Ottawa K1A 0R6, Canada 4 Bionand Center for Nanomedicine and Biotechnology, Parque Tecnológico de Andalucía, 29590 Málaga, Spain</small>	Independent phase matching for TE and TM polarization in directional couplers with tilted subwavelength structures				
10:15 AM	00:15	Alexandre Mainos ¹ , Stefano Paesani ¹ , Massimo Borghi ² , Stefano Signorini ³ , Lorenzo Pavesi ³ , Anthony Laing ¹ <small>1 Quantum Engineering Technology Labs, H. H. Wills Physics Laboratory and Department of Electrical and Electronic Engineering, University of Bristol, Bristol BS81FD, UK 2 SM Optics S.R.L., Research Programs, Via John Fitzgerald Kennedy 2, 20871 Vimercate, Italy 3 Department of Physics, University of Trento, Via Sommarive 14, 38123 Trento, Italy</small>	Near-optimal Sources of Single Photons in Silicon Quantum Photonics based on Intermodal Spontaneous Four-Wave-Mixing	10:45 AM	00:15	Yeyu Tong ¹ , Xuetong Zhou ¹ , Yi Wang ¹ , Chi-Wai Chow ² and Hon Ki Tsang ¹ <small>1 Department of Electronic Engineering, The Chinese University of Hong Kong, Shatin, Hong Kong, P. R. China 2 Department of Photonics, National Chiao Tung University, Hsinchu, Taiwan</small>	Bridging the Graded-Index Few-Mode Fibre with Photonic Integrated Circuits via Efficient Diffraction Waveguide Gratings				
10:30 AM	00:15	Dorian Oser ¹ , Florent Mazaes ² , Carlos Alonso-Ramos ¹ , Xavier Le Roux ¹ , Laurent Vivien ¹ , Sébastien Tanzilli ² , Eric Cassan ¹ , Laurent Labonte ² <small>1 Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies (C2N), Palaiseau, France 2 Université Côte d'Azur, CNRS, Institut de physique de Nice, France</small>	Silicon source providing multi-spectral photon pairs with high-quality entanglement								
10:45 AM	00:15	H. O. Çirkinoglu ¹ , R. Santos ² , K. Williams ¹ , X. Leijtens ¹ <small>1 Eindhoven University of Technology, 5612 AZ, Eindhoven, The Netherlands 2 SMART Photonics, Eindhoven, The Netherlands</small>	Monolithically integrated differential phase shift transmitter for quantum key distribution								
Break											
Keynote session 4 Chair: Eric Cassan (Univ. Paris Saclay, CNRS, C2N, France)											
11:30 AM	00:30	Christian Koos <small>Karlsruher Institut fuer Technologie (Germany)</small>	Hybrid photonic circuits: From high-speed communications to THz signal processing	Session 11 // Passive integrated photonic structures and new platforms Chair: Andrea Melloni (Politecnico di Milano, Italy)							
Session 10 // Programmable, reconfigurable integrated photonics and neural network Chair: José Capmany (Universitat Politècnica de València, Spain)											
12:00 PM	00:30	Bert Jan Offrein <small>IBM Research - Zurich</small>	(INVITED) Optical Neural Network	12:00 PM	00:15	Mazyar Milanizadeh , Matteo Petri, Francesco Morichetti and Andrea Melloni <small>Departamento de Electronica, Informacione e Biogegeeria - Politecnico di Milano, Milano, 20133 Italy</small>	Polarization insensitive tunable hitless filter for extended C band				
12:30 PM	00:15	Alain Y. Takabayashi ¹ , Hamed Sattari ¹ , Pierre Edinger ² , Peter Verheyen ³ , Kristinn B. Gyllfason ² , Wim Bogarts ⁴ , Niels Quack ¹ <small>1 Ecole Polytechnique Fédérale de Lausanne (EPFL), CH-1015 Lausanne, Switzerland 2 KTH Royal Institute of Technology, Malvinas väg 10, SE-100 44 Stockholm, Sweden 3 IMEC, 3DSIP Department, SI Photonics Group, Leuven, Belgium 4 Ghent University – IMEC, Department of Information Technology, Photonics Research Group, Technologiepark-Zwijnaarde 15, 9052 Ghent, Belgium</small>	Broadband Compact Single-Pole Double-Throw Silicon Photonic MEMS Switch	12:15 PM	00:15	Pisu Jiang ¹ and Krishna C. Balram ¹ <small>1 OET Labs, University of Bristol, Woodland Road, Bristol BS8 1UB, UK</small>	Building large scale photonic integrated circuits in suspended gallium arsenide: Passives				
12:45 PM	00:15	Mazyar Milanizadeh ¹ , Elena Damiani ¹ , Tigers Jonuzi ¹ , Mario Junior Mencagli ² , Brian Edwards ³ , David A.B. Miller ⁴ , Nader Engheta ³ , Andrea Melloni ¹ , Francesco Morichetti ¹ <small>1 Dipartimento di Elettronica, Informazione e Biogegeeria - Politecnico di Milano, Milano, 20133 Italy 2 Dept. of Electrical and Computer Engineering - UNC at Charlotte, Charlotte, NC, USA 3 Department of ESE - University of Pennsylvania, Philadelphia, Pennsylvania, USA 4 Ginzton Laboratory - Stanford University, Spilker Building, Stanford, CA, USA</small>	Recursive MZI mesh for integral equation implementation	12:30 PM	00:15	Madeleine Weigel ¹ , Moritz Kleinert ¹ , Hauke Conrad ¹ , Anja Scheu ¹ , Martin Kresse ¹ , Crispin Zawadzki ¹ , David de Felipe ¹ , Norbert Keil ¹ , Martin Schell ¹ <small>1 Fraunhofer Heinrich Heitz Institute, Einsteinufer 37, 10587 Berlin, Germany</small>	3D Photonic Integration: Cascaded 1x1 3D Multi-mode Interference Couplers for Vertical Multi-layer Connections				
1:00 PM	00:15	Iman Zand ^{1, 2} , Xiangfeng Chen ^{1, 2} , Wim Bogarts ^{1, 2} <small>1 Photonics Research Group, Department of Information Technology, Ghent University-IMEC, 9052 Ghent, Belgium 2 Center of Nano and Biophotonics, Ghent University, 9052 Ghent, Belgium</small>	Application-specific Scaling in Programmable Photonic Circuits	12:45 PM	00:15	Juan Fernández ^{1,2} , Joan Felipe ¹ , José Serrano ¹ , Raffaele Caroselli ¹ , Bernardo Gargallo ¹ , David Domenech ¹ , Pascual Muñoz ^{1,2} <small>1 VLC Photonics S.L., c/ Camino de Vera s/n - 46022, Valencia - Spain 2 Universitat Politècnica de València, c/ Camino de Vera s/n - 46022, Valencia - Spain</small>	Statistical analysis of passive components manufactured in a thick silicon nitride platform				
				1:00 PM	00:15	Piotr. J. Cegielski ¹ , Stephan Suckow ¹ , Anna Lena Giesecke ¹ , Caroline Porschais ¹ , Holger Lerch ¹ , Maik Lüticke ¹ , Bartos Chmielak ¹ , Max C. Lemme ^{1,2} <small>1 AMO GmbH, Otto-Blumenthal-Str. 25, 52074 Aachen, Germany 2 Chair of Electronic Devices, RWTH-Aachen University, Otto-Blumenthal-Str. 25, Aachen, Germany</small>	Silicon Nitride Waveguides and Spot Size Converters with < 1.76 dB Loss Over Broad Wavelength Range from 1010 nm to 1110 nm for OCT Applications				
Break											
Poster Session 3 // Optoelectronic devices and Integrated photonic circuits Chair: Delphine Maris-Morini (Univ. Paris Saclay, CNRS, C2N, France)				Poster Session 4 // SIN devices, Resonator and sensors Chair: Eric Cassan (Univ. Paris Saclay, CNRS, C2N, France)							
Ercan Karagöz ^{1,2} , Evren Öztekin ^{1,2} , Mutlu Gökkavas ¹ , Ekmele Özbay ^{1,3} <small>1 Bilkent University, Nanotechnology Research Center, Ankara, Turkey 2 Hacettepe University, Department of Nanotechnology and Nanomedicine, Ankara, Turkey 3 Bilkent University, Department of Electrical and Electronics Engineering, Ankara, Turkey</small>				LinB03 V-Groove Fabrication for Optical Fibre Pigtailing							
				Alberto Tibaldi ^{1, 2} , Mohammadamin Ghomashiri ¹ , Francesco Bertazzini ² , Marco Vallone ¹ , Andrea Palmieri ¹ , Michele Goano ^{1,2} , and Giovanni Ghione ¹ <small>1 Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Turin, Italy 2 IEIT-CNR c/o Politecnico di Torino, 10129 Turin, Italy</small>				Modeling of plasmonic organic hybrid E/O modulators: towards a comprehensive 3D simulation framework			
				M. de Goede ¹ , M. Dijkstra ¹ , N. Acharya ^{2,3} , G. Kozyreff ² and S.M. Garcia-Bianco ¹ <small>1 Optical Sciences, MESA+ Institute for Nanotechnology, University of Twente, P.O. Box 217, 7500 AE Enschede, the Netherlands 2 Optique Nonlinéaire Théorique, Université libre de Bruxelles, CP 231, Brussels, Belgium 3 Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie, D-12489 Berlin, Germany</small>				Mode-splitting in a ring resonator for self-referenced sensing			
				Nirmalendu Acharya ¹ Mohamed Maher ² and Gregory Kozyreff ² <small>1 Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie, D-12489 Berlin, Germany 2 Optique Nonlinéaire Théorique, Université libre de Bruxelles (U.L.B.), CP 231, 1050 Bruxelles, Belgium</small>				Self-referenced Sensing in Microring Resonators			

<p>A. Brimont¹, D. Zurita¹, V. C. Duarte², T. Mengual², B. Chmielak³, S. Suckow³, A. Giesecke³, M. A. Piqueras², P. Sanchis¹</p> <p>¹Nanophotonics Technology Center, Universitat Politècnica de València, Camino de Vera s/n, 46022 Valencia, Spain ²ZAS Photonics, Camino de Vera s/n, 46022 Valencia, Spain 3AMO GmbH, Otto-Blumenthal-Str. 25, 52074 Aachen, Germany</p>	<p>Optical fiber-to-chip assembly process for ultra-low loss photonic devices based on silicon nitride for space applications</p>	<p>Myriam Bonduelle¹, Guillermo Martín¹, Alain Morand², Guodong Zhang³, Guanghua Cheng³, 4 Ciro d'Amico³, Razvan Stoian³</p> <p>¹Univ. Grenoble Alpes, CNRS, IPAG, F-38400, Grenoble, France ²Univ. Grenoble Alpes, CNRS, Grenoble INP⁺, IMEP-LAHC, F-38000, Grenoble, France ³Laboratoire Hubert Curien, UMR 5516 CNRS, Université de Lyon, Université Jean Monnet, 42000 St. Etienne, France ⁴State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics, CAS, 710119 Xi'an, Shaanxi, China</p>	<p>Study and Optimisation of Laser Written Nano-Antenna devoted to sampling in Integrated Optic Spectrometers for the Near-IR</p>
<p>L. C. Andreani^{1,2,3}, D. Gerace¹, M. Passoni¹, G. Chinnia R. Devarapu^{2,3}, L. O'Faolain^{2,3}</p> <p>¹ Department of Physics, University of Pavia, Via Bassi 6, I-27100 Pavia, Italy ² Centre for Advanced Photonics and Process Analysis, Cork Institute of Technology, Cork, Ireland ³ Tyndall National Institute, Cork, Ireland</p>	<p>Slow Light with Interleaved p-n junction to Reduce the Energy Dissipation of Mach-Zehnder Modulators in Silicon Photonics</p>	<p>Dimitrios Chaltzitheocharis^{1,3}, Themistoklis Chrysostomidis^{1,3}, Gianni Roubos^{1,3}, Dimitra Ketzaki^{2,3}, Georgios Patsamanis^{1,3}, Cosimo Calò⁴, Christophe Caillaud⁴, Davide Sacchetto⁵, Michael Zervas⁵, Konstantinos Vysokinos^{1,2}</p> <p>¹ School of Physics, Aristotle University of Thessaloniki, Greece ² Department of Informatics, Aristotle University of Thessaloniki, Greece ³ Centre for Interdisciplinary Research and Innovation, Aristotle University of Thessaloniki, Greece ⁴ IiV-Lab, a joint laboratory between Nokia, Thales, and CEA Leti, 1 av. A. Fresnel 91707 Palaiseau, France ⁵ LIGENTEC SA, EPFL Innovation Park, Bâtiment C, CH-1015 Lausanne, Switzerland</p>	<p>Directional Coupling Interface between Si-rich nitride and Si₃N₄ Waveguides Towards the Monolithic Co-integration of QD-INP and Si₃N₄ Photonic Components on Si</p>
<p>Robinson Guzman¹, Alberto Zarzuelo², Jessica César¹, Muhsin Ali¹, Jean-Raphael Fernández², Oscar Valles², Miguel Virseda², Fernando Martín², Luc Augustin³ and Guillermo Carpintero¹</p> <p>¹Universidad Carlos III de Madrid, 28911 Leganés, Madrid, Spain ²SENER Aerospace, 28760 Tres Cantos, Madrid, Spain ³SMART Photonics, 5656 AE Eindhoven, The Netherlands</p>	<p>Integrated Microwave Photonic Signal Generation System based on the External Modulation Technique</p>	<p>Hongsik Jung¹</p> <p>¹ Hongik University</p>	<p>Guided-Wave, Electro-Optic Electric-Field Sensors Utilizing Ti Diffused Lithium-Niobate (Ti:LiNbO₃) Channel Waveguides</p>
<p>Reza Hosseini^{1,3}, Shahryar Sabouri¹, Arijit Misra², Stefan Preußer², Thomas Schneider², and Kambiz Jamshidi¹</p> <p>¹ Integrated Photonic Devices Lab, Chair of RF, Technische Universität Dresden, 01062 Dresden, Germany ² Terahertz-Photonics Group, Institut für Hochfrequenztechnik, TU Braunschweig, Schmetzstraße 22, 38106 Braunschweig, Germany ³ SIMULIA Solution Consultant at Dassault Systemes Deutschland GmbH</p>	<p>Side Mode Suppression Ratio Reduction in Mach-Zehnder Modulators Using Slow-Light Waveguides</p>	<p>Pedro-Andrei Krochin-Yepey^{1,2}, Ulrike Scholz¹, Andre Zimmermann^{2,3}</p> <p>¹ Department of Microsystems and Nanotechnologies (CRARY), Corporate Sector Research and Advance Engineering, Robert Bosch GmbH, 71272 Remmingen, Germany ² Institute for Micro Integration (IMI), University of Stuttgart, 70569 Stuttgart, Germany ³ Hahn-Schickard, 70569 Stuttgart Germany</p>	<p>CMOS Compatible Thermal Management Solutions for Silicon Photonic Optical Phased Arrays</p>
<p>Mihai Kusko¹, Rebeca Tudor¹, Stefan Caramizoiu¹, Cristian Kusko¹</p> <p>¹ National Institute for R&D in Microtechnologies IMT-Bucharest, 126A Eroii Iancu Nicolae Str., Voluntari, 077190, Romania</p>	<p>Design of an integrated optical circuit for generation of optical vortex</p>	<p>I.A. Krutov, M.Yu. Saygin, I.V. Dyakonov, S.P. Kulik</p> <p>Quantum Technology Centre, Faculty of Physics, M.V. Lomonosov Moscow State University, GSP-1, Leninskiy gory, Moscow 119991 Russian Federation</p>	<p>Optimized low-loss integrated photonics silicon-nitride Y-branch splitter</p>
<p>Christian Lafforgue¹, Mathias Berciano^{1,2}, Lucas Deniel¹, Guillaume Marcaud^{1,3}, Xavier Le Roux¹, Carlos Alonso-Ramos¹, Daniel Benedikovic¹, Alicia Ruiz-Caridad¹, Paul Crozat¹, Delphine Marris-Morini¹, Eric Cassan¹, Laurent Vivien¹</p> <p>¹ Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120 Palaiseau, France ² Now at IMEC, Kapellekreef 75, Leuven, Belgium ³ Now at Yale University, New Haven, US</p>	<p>Strain-induced electro-optical effect in silicon Mach-Zehnder modulators</p>	<p>Marcin Lelit^{1,2}, Mateusz Stolikowski^{1,2}, Andrzej Kazmierczak¹, Stanislaw Stopiński¹, Krzysztof Anders¹, Maciej Filipiak², Marcin Juchniowiec², Bartłomiej Stonio^{1,2}, Bartosz Michalak², Krystian Pavlov², Piotr Wiśniewski^{1,2}, Romuald B. Beck^{1,2} and Ryszard Piramidowicz¹</p> <p>¹ Warsaw University of Technology, Institute of Microelectronics and Optoelectronics, Koszykowa 75, 00-662 Warsaw, Poland ² Warsaw University of Technology, Centre for Advanced Materials and Technologies CEZAMAT, Poleczki 19, 02-822 Warsaw, Poland</p>	<p>Silicon nitride passive photonic platform for applications at visible wavelengths: design, fabrication and characterization</p>
<p>A. Meighan, W. Yao, M. Wale, and K.A. Williams</p> <p>Institute of Photonic Integration, Eindhoven University of Technology, P.O. Box 513, 5600 MB, the Netherlands</p>	<p>Microwave model for optimizing electro-optical modulation response of the Mach-Zehnder modulator</p>	<p>Maziyar Milanizadeh, Matteo Petrini, Francesco Morichetti and Andrea Melloni</p> <p>Dipartimento di Elettronica, Informazione e Bioingegneria - Politecnico di Milano, Milano, 20133 Italy</p>	<p>FSR free coupled microring resonator filter on extended C-band in silicon photonics</p>
<p>Rahul D. Mishra¹, Lalit Singh¹, Swati Rajput¹, Sourabh Jain¹ and Mukesh Kumar^{1*}</p> <p>¹ Optoelectronic Nanodevice Research Laboratory, Department of Electrical Engineering, Indian Institute of Technology Indore, Madhya Pradesh, India</p>	<p>Enhanced Optical Readout in Resistive Memory Through Plasmonic Amplification</p>	<p>Nevlacil S., Mueller P., Maese-Novo A., Sagmeister M., Kraft J., Rank E., Drexler W., Hainberger R.</p> <p>¹AIT Austrian Institute of Technology GmbH, Gleifengasse 4, 1210, Vienna, Austria ²Zams AG, Tobelbader Straße 30, 8141 Premsta ten, Austria ³Medical University of Vienna, Waehringer Gürtel 18-20, 1090 Vienna, Austria</p>	<p>PECVD SIN photonic integrated circuit for swept source OCT at 840 nm</p>
<p>Aleksandra Paśnikowska, Stanislaw Stopiński, Andrzej Kazmierczak, Ryszard Piramidowicz</p> <p>Warsaw University of Technology, Institute of Microelectronics and Optoelectronics, Koszykowa 75, 00-662 Warszawa, Poland</p>	<p>InP-based integrated OLT and ONU with cyclic AWG for WDM-PON</p>	<p>Georgios Patsamanis^{1,2}, Dimitra Ketzaki^{1,3}, Dimitrios Chaltzitheocharis^{1,2}, Konstantinos Vysokinos^{1,2}</p> <p>¹ Centre for Interdisciplinary Research and Innovation, Aristotle University of Thessaloniki, Greece ² School of Physics, Aristotle University of Thessaloniki, Greece ³ Department of Informatics, Aristotle University of Thessaloniki, Greece</p>	<p>Horizontal slot-based polarization beam splitter on Silicon Nitride</p>
<p>C. Porzi¹, F. Falconi², L. Ansalone³, P. Ghelfi², A. Bogoni^{1,2}</p> <p>¹ TFCIP Institute, Scuola Superiore Sant'Anna, Pisa, Italy ² PNTLab, CNIT, Pisa, Italy ³ Agenzia Spaziale Italiana, Roma, Italy</p>	<p>Fast Silicon Photonics Wavelength-Selective Phase Shifter</p>	<p>Mauricio Tosi¹, Jeffrey H. Martinez², Roberto Peyton², Alejandro Fasciszewski¹, Gustavo Torchia^{2,3}, Nicolás Abadía^{3,4}, Jorge Parra⁵, Pablo Sanchis⁵, Laureano A. Bulus-Rossini^{1,3,6}, Pablo A. Costanzo-Caso^{1,3,6}</p> <p>¹ Comisión Nacional de Energía Atómica (CNEA), Argentina ² Centro de Investigaciones Ópticas – CIOp (CONICET – CIPCA – UNLP), La Plata (BA), Argentina ³ Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina ⁴ Institute for Compound Semiconductors & School of Physics and Astronomy, Cardiff University, Cardiff, UK ⁵ Nanophotonics Technology Center, Universitat Politècnica de València, Cam. de Vera, 46022 Valencia, Spain ⁶ Instituto Balseiro (Universidad Nacional de Cuyo – CNEA), Bariloche (RN), Argentina</p>	<p>Fabrication of Silicon Nitride PIC by Laser Direct Writing</p>
<p>N. Tessema, K. Prifti, A. Rasoulzadehzhali, R. Stabile, N. Calabretta</p> <p>Institute for Photonic Integration, Dept. of Elec. Eng, Eindhoven University of Technology, PO Box 513, 5600MB Eindhoven, The Netherlands</p>	<p>Compact InP Wavelength Blocker based on a Single AWG and SOA gates for Metro Networks</p>	<p>J. Enrique Va'zquez-Lozano, Alejandro Martínez</p> <p>Nanophotonics Technology Center, Universitat Politècnica de València, Camino de Vera s/n, 46022 Valencia, Spain</p>	<p>Chiroptical Applications Enabled by Integrated Photonic Waveguides</p>
<p>Frederik Thiele¹, Jan Philipp Hoßker¹, Felix vom Bruch², Harald Herrmann², Raimund Ricken², Viktor Quiring², Christof Eigner², Christine Silberhorn², Tim J. Bartley¹</p> <p>¹ Mesoscopic Quantum Optics, Department of Physics, Paderborn University, Warburger Str. 100, 33098 Paderborn, Germany ² Integrated Quantum Optics, Department of Physics, Paderborn University, Warburger Str. 100, 33098 Paderborn, Germany</p>	<p>Cryogenic operation of a polarisation circulator and directional coupler in LiNbO₃ for quantum circuits</p>	<p>N. Verellen^{1*}, Q. Deng^{1,2}, O. Arisev^{1,2}, D. Kuznetsov^{1,2}, K. de Wijts^{1,2}, S. Libbrecht¹, Md. Mahmud ul Hasan¹, M. Ferreira Cao¹, B. Du Bois¹, P. Neutens², L. Luo^{1,2}, S. Ha^{1,2}, K. Covenst¹, R. Vos¹, L. Lagae^{1,2}, and P. Van Dorpe^{1,2}</p> <p>¹ imec, Kapellekreef 75, Leuven, Belgium ² KU Leuven, Dept. of physics and astronomy, Leuven, Belgium</p>	<p>Enabling High-Resolution Fluorescence Microscopy and Detection using Integrated Photonics</p>
<p>Jerry Yeung¹ and Markus Pollnau¹</p> <p>¹ Advanced Technology Institute, Department of Electrical and Electronic Engineering, University of Surrey, Guildford GU2 7XH, United Kingdom</p>	<p>Light-Intensity Distributions in Distributed-Feedback Resonators</p>		

Break

Plenary session 2							
Chair: Carlos Alonso-Ramos (Univ. Paris Saclay, CNRS, C2N, France)							
3:00 PM	00:45	Marko Loncar Harvard University(USA)	Integrated Lithium Niobate Photonics				
Keynote session 5							
Chair: Carlos Alonso-Ramos (Univ. Paris Saclay, CNRS, C2N, France)							
3:45 PM	00:30	Pavel Cheben National Research Council (Canada)	Metamaterial-inspired silicon photonics				
Break							
Session 12 // Transceiver and high speed devices			Session 13 // Advances passive photonic devices				
Chair: Kevin A. Williams (Technical University of Eindhoven, The Netherlands)			Chair: Pavel Cheben (National Research Council, Canada)				
4:45 PM	00:15	Danhao Ma 1, Yiding Lin ² , Ruitao Wen ³ , Lionel Kirmerling ¹ , Jurgen Michel ¹ 1 Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA 2 School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, Singapore 3 Department of Materials Science and Engineering, Southern University of Science and Technology, China	Tensile Strained Ge _{0.99} Si _{0.01} EA Modulator Arrays for Integrated Broadband Modulation	4:45 PM	00:30	Dan-Xia Xu National Research Council (Canada)	(INVITED) Machine learning assisted design for integrated photonics
5:00 PM	00:15	A. Moscoso-Mártir 1, J. Koch ² , J. Müller ¹ , S. Sharif Azadeh ^{1,3} , S. Pachnicke ² , J. Witzens ¹ 1 Institute of Integrated Photonics, RWTH Aachen University, Aloys-Riedler-Str. 4, 52074 Aachen, Germany 2 Chair of Communications, Faculty of Engineering, Kiel University, Kaiserstraße 2, 24143 Kiel, Germany 3 Now at NINT Department, Max Planck Institute of Microstructure Physics, 06120 Halle, Germany	Silicon Photonics DWDM NLFT Soliton Transmitter Implementation and Link Budget Assessment	5:15 PM	00:15	Hao Sun 1 and Lawrence R. Chen ¹ 1 Department of Electrical and Computer Engineering, McGill University, Montreal, QC H3A 0E9 Canada	Discretely tunable optical delay line using step-chirped subwavelength grating Bragg gratings
5:15 PM	00:30	Andrew Rickman Rockley Photonics (USA)	(INVITED) Silicon photonics (industrial perspective and ramp-up plans)	5:30 PM	00:30	Gordon Keeler Defense Advanced Research Projects Agency (USA)	(INVITED) Integrated Photonics for Precision Beam Steering and Timing Applications
Session 14 // Integrated light source			Session 15 // Optomechanics and On chip Plasmonics				
Chair: Gunther Roelkens (Ghent University - imec, Belgium)			Chair: Pablo Sanchis (Universitat Politècnica de València, Spain)				
5:45 PM	00:15	John McCarthy 1,2, Mohamad Dernaika 3, Jack Mulcahy 1,2, Albert A. Ruth 4, Satheesh Chandran 4, Prince M. Anandarajah 5, Eamonn P. Martin 5, Justin K. Alexander 6, Frank H. Peters 1,2 1 Tyndall National Institute, Lee Maltings, Cork, Ireland 2 Physics Department, University College Cork, College Road, Cork, Ireland 3 Rockley Photonics Ireland, Lee Mills House, Lee Maltings, Cork, Ireland 4 Physics Department and Environmental Research Institute, University College Cork, Cork, Ireland 5 School of Electronic Engineering, Dublin City University, Glasnevin, Dublin 9, Ireland 6 Aegonyx, Montreal, QC, Canada	Monolithically Integrated Tunable Comb Source using Gain Switched Slotted Fabry-Perot Lasers	6:00 PM	00:30	Raphael Van Laer Stanford University (USA)	(INVITED) Integrated photonics meets integrated photonics: controlling phonons and photons at the wavelength scale
6:00 PM	00:15	P. Fanneau 1, C. Besancon ¹ , H. Elfaiki ¹ , T. Veroleat ¹ , D. Neel ¹ , N. Vaissiere ¹ , S. Malthoultre ² , V. Muffato, C Jany ² , A. Shen ¹ , C. Caillaud ¹ , J. Decobert ¹ , D. Bitauld ¹ , S. Olivier ² , K. Hassan ² and J. M. Ramirez ¹ 1 ILL-V Lab, Avenue Augustin Fresnel, 1, Palaiseau 91197, France 2 CEA LETI, Minatec, Grenoble, France	Heterogeneous integration of III-V materials on Silicon photonic platforms: In the quest for high power, single-longitudinal mode and widely tuneable on-chip laser diodes	6:30 PM	00:15	Jianhao Zhang ,1 Omar Ortiz,1 Xavier Le-Roux,1 Eric Cassan,1 Laurent Vivien,1 Delphine Marris-Morini,1 Daniel Lanzillotti Kimura,1 Carlos Alonso-Ramos ¹ 1 UniversitéParis-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120, Palaiseau, France.	Subwavelength engineering for Brillouin gain optimization in silicon optomechanical waveguides
6:15 PM	00:30	Songtao Liu University of California, Santa Barbara (USA)	(INVITED) Progress on monolithic quantum dot lasers and amplifiers	6:45 PM	00:15	Aude Martin 1, Ines Ghorbel ^{1,2} , Maelle Benefice ¹ , Rui Zhu ² , Sylvain Combrie ¹ , Rémy Braive ^{2,3} , Alfredo De Rossi ¹ 1 Thales Research and Technology, 1, avenue Augustin Fresnel, 91767 Palaiseau Cedex 2 Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies (C2N), 10, Boulevard Thomas Gobert, 91120 Palaiseau, France 3 Université Paris Diderot, Sorbonne Paris Cité, 75207 Paris Cedex 13, France	Generation of a compact oscillator using self-injected piezoelectric optomechanical crystal
Closing remarks							
Chairs: Delphine Marris-Morini and Laurent Vivien (Univ. Paris Saclay, CNRS, C2N, France)							