

<b>Sunday 2.10.2022</b>				
17:00 Registration desk open				
19:00 - 21:00 Welcoming glass of wine and registration				
<b>Monday 3.10.2022</b>				
08:30 Registration desk open				
09:00 - 09:10 Opening Address				
<b>Session 1:</b>				
09:10 - 9:50	INVITED	Mikhail Belkin	Technical University of Munich	QCL-based mid-infrared photonic integration on InP
09:50 - 10:10	Contributed	Kiran Saba	Institute of High Pressure Physics PAS	Towards the realization of Photonic Integrated Circuits (PICs) based on low-loss GaN waveguides
10:10 - 10:30	Contributed	Dorota Pierscińska	Lukasiewicz – Institute of Microelectronics and Photonics	Thermal considerations of multi emitter QCL system
10:30 - 10:50	Contributed	Lukasz Sterczewski	Wroclaw University of Science and Technology	Modal leakage in interband cascade lasers diagnosed using far-field optical profilometry
10:50 - 11:10	Contributed	Piotr Gutowski	Lukasiewicz – Institute of Microelectronics and Photonics	MBE Growth Technology of Long Wavelength ( $\lambda \sim 13\mu\text{m}$ ) Quantum Cascade Lasers
Coffee break				
<b>Session 2:</b>				
11:40 - 12:20	INVITED	James Lott	Technical University Berlin	Vertical cavity surface emitting lasers (VCSELs) for optical wireless
12:20 - 12:40	Contributed	Marcin Gębski	Łódź University of Technology	Impact of VCSEL array geometry on their performance
12:40 - 13:00	Contributed	Lilli Kuhen	Zuse Institute Berlin	Computation of resonance modes in VCSELs by applying a contour integration eigenvalue solver
13:00 - 13:20	Contributed	Marek Ekielski	Lukasiewicz – Institute of Microelectronics and Photonics	Fabrication of monolithic high-contrast gratings for photonic applications
Lunch break				
<b>Session 3:</b>				
14:30 - 15:10	INVITED	Martin Kamp	University of Würzburg	Topological insulator vertical-cavity laser array
15:10 - 15:30	Contributed	Nasibeh Haghighi	Ferdinand-Braun-Institut	Impact of inter-VCSEL spacing and inter-VCSEL ridge connectors on top-surface-emitting electrically parallel two-dimensional 3-, 7-, and 19-element infrared VCSEL arrays
15:30 - 15:50	Contributed	Kiran Saba	Institute of High Pressure Physics PAS	Monolithic 2D-arrays of horizontal-to-vertical surface emitting laser diodes for cost efficient applications in visible light communication
15:50 - 16:10	Contributed	Mikołaj Badura	Wroclaw University of Science and Technology	Plasmonic distributed bragg reflector for quantum-cascade vertical-cavity surface-emitting laser
17:00 - 19:00 <b>Poster session</b>				
<b>Tuesday - 4.10.2022</b>				
<b>Session 4:</b>				
09:00 - 9:40	INVITED	Sven Einfeldt	Ferdinand-Braun-Institut	Reliability aspects of GaN-based ridge waveguide diode lasers
09:40 - 10:00	Contributed	Aleksandr Kuźmicz	Lukasiewicz – Institute of Microelectronics and Photonics	Selected aspects of optoelectronic III-V processing
10:00 - 10:20	Contributed	Marcin Siekacz	Institute of High Pressure Physics PAS	Stacks of GaN-based laser diodes interconnected by tunnel junctions
10:20 - 10:40	Contributed	Lukasz Piskorski	Łódź University of Technology	Supersymmetric nitride-based wide-ridge and single lateral mode edge-emitting lasers
Coffee break				
<b>Session 5:</b>				
11:10 - 11:50	INVITED	Nikola Opačak	TU Wien, Institute of Solid State Electronics	Parametric gain and solitons in free-running lasers
11:50 - 12:10	Contributed	Florian Pilat	TU Wien, Institute of Solid State Electronics	Measuring the Hot-Cavity Linewidth Enhancement Factor of a Semiconductor Frequency Comb
12:10 - 12:30	Contributed	Michał Kobecki	Technical University Dortmund	Generation and Detection of Coherent Phonons Wavepackets with Passively Mode-Locked Semiconductor Laser Diode.
12:30 - 12:50	Contributed	Maciej Dems	Łódź University of Technology	Single-Mode Emission in VCSELs with Antiresonant Islands
Lunch break				
<b>Session 6:</b>				
14:00 - 14:40	INVITED	Asa Haglund	Chalmers University of Technology	III-nitride VCSELs – this is the way
14:40 - 15:00	Contributed	Szymon Grzanka	Institute of High Pressure Physics PAS	InGaN external cavity diode laser and their tunability
15:00 - 15:20	Contributed	Robert Czerniecki	Institute of High Pressure Physics PAS	UVA laser with a thick single AlInGaN quantum well
15:20 - 15:40	Contributed	Michał Wasiak	Łódź University of Technology	Microphotoluminescence investigation of VCSEL structures
Coffee break				
<b>Session 7: Exhibitor Session</b>				
16:00 - 16:15		Lukasz Sadowski, Emil Bojarski	Devmatech	Novel technologies for the fabrication of photonic devices
16:15 - 16:30		Katarzyna Hryniewicka	MS SPEKTRUM	Opportunities of applications of Bruker FT-IR spectrometers in semiconductor research
16:30 - 16:45		Aliaksandr Yermak, Thomas Müller	FINETECH	The challenge of sub-micron accuracy packaging for photonics
16:45 - 17:00		Maciej Bazarnik	PIK Instruments	Scanning Electron Microscopy: Easier Than You Think
17:15 - 17:30		Christophe Defranoux	SEMILAB	Optical and electrical characterization of laser semiconductor structures
17:30 - 17:45		Waldemar Furman	Technolutions	Modern microscopy in microelectronics
17:45 - 18:00		Andreas Stamm	Oxford Instruments	Plasma processes for modern laser technology
19:30 <b>Conference dinner on boat</b>				
<b>Wednesday - 5.10.2022</b>				
<b>Session 8:</b>				
09:30 - 10:10	INVITED	Stephan Reitzenstein	Technische Universität Berlin	Physics and applications of high-beta nanolasers
10:10 - 10:30	Contributed	Tomasz Czystanowski	Łódź University of Technology	High quality factor vertical cavities enabled by low refractive index subwavelength gratings
10:30 - 10:50	Contributed	Weronika Glowadzka	Łódź University of Technology	Quality factor enhancement in finite-size subwavelength gratings
10:50 - 11:10	Contributed	Magdalena Marciniak	Łódź University of Technology	Modification of monolithic high contrast grating (MHCG) properties by varying its spatial parameters
Coffee break				
<b>Session 9:</b>				
11:40 - 12:00	Contributed	Anna Szerling	Lukasiewicz – Institute of Microelectronics and Photonics	The ion implantation for semiconductor lasers
12:00 - 12:20	Contributed	Grzegorz Sobczak	Lukasiewicz – Institute of Microelectronics and Photonics	Single frequency DFB quantum cascade lasers designed for NOx sensors
12:20 - 12:40	Contributed	Aleksandr Kuźmicz	Lukasiewicz – Institute of Microelectronics and Photonics	Development of optical and electrical confinement by oxidation in InP material system
12:40 - 13:00	Contributed	Artur Broda	Lukasiewicz – Institute of Microelectronics and Photonics	Development of Single-Mode Multiband Tunable External-Cavity Quantum-Cascade Laser System
Lunch break				
<b>Session 10:</b>				
14:00 - 14:40	INVITED	Jan Suffczyński	University of Warsaw	From linear to non-linear polariton regime in coupled optical microcavities
14:40 - 15:00	Contributed	Maciej Pieczarka	Wroclaw University of Science and Technology	Polariton to photon lasing crossover in an optically generated trap within a semiconductor microcavity
15:00 - 15:20	Contributed	Jan Muszalski	Lukasiewicz – Institute of Microelectronics and Photonics	Processing of InP-based MECSELs for High Power Emission
15:20 - 15:40	Contributed	Monika Mikulicz	Wroclaw University of Science and Technology	The Monolithic High Contrast Gratings based on InP for QCL-like surface emitting devices
Coffee break				
<b>Session 11:</b>				
16:00 - 16:40	INVITED	Anna Kafar	Institute of High Pressure Physics PAS	Use of wafer patterning for new functionalities of InGaN light emitters
16:40 - 17:00	Contributed	Dario Schavion	Institute of High Pressure Physics PAS	Ge doping for strain-free cladding layers in InGaN/GaN lasers
17:00 - 17:20	Contributed	Muhammed Aktas	Institute of High Pressure Physics PAS	InGaN Laser Diode with Polarization Doped P-Cladding Layer
17:20 - 17:40	Contributed	Aleksandra Wójcicka	Lukasiewicz – Institute of Microelectronics and Photonics	ZnO:Al with ultrathin subcontact layers as contacts to p-type GaN for high-efficiency blue LDs
<b>Closing remarks</b>				
Networking time/ Free time				
<b>Thursday - 6.10.2022</b>				
Breakfast and Departure				