

Opening	14.00-14.20		
Monday afternoon sessions			
Monday	14:20-16:20		Nanostructures and nanotechnologies
Kromka	Czech Academy of Sciences, Prague	Czech Republic	Diamond based solution-gated transistors for biosensor use
Hulman	Slovak Academy of Sciences, Bratislava	Slovak Republic	Thin layers of 2D transition metal dichalcogenides
Sojkova	Slovak Academy of Sciences, Bratislava	Slovak Republic	PtSe ₂ few-layer films grown on NbN superconducting substrate
Huran	Joint Institute for Nuclear Research, Dubna	Russia	Electron beam-plasma vacuum deposition of very thin carbon films on quartz substrates: Photo-electron emission properties
Mikolasek	Slovak University of Technology, Bratislava	Slovak Republic	Analysis of Li-ion battery degradation mechanism by advanced electrical characterization
Coffee	16.40-17.00		
Monday	16.40-19.00		Electronic and photonic devices
Novak	Slovak Academy of Sciences, Bratislava	Slovak Republic	Influence of edge rich surface on growth of MoS ₂ from thin molybdenum layer
Vavrinsky	Slovak University of Technology, Bratislava	Slovak Republic	Concept of modern stress-meter
Chovan	International Laser Centre SCSTI, Bratislava	Slovak Republic	Temperature characterization of fiber array to photonics chip coupling
Osvald	Slovak Academy of Sciences, Bratislava	Slovak Republic	Vertical current transport in p-GaN/AlGaN/GaN structures
Hasko	International Laser Centre SCSTI, Bratislava	Slovak Republic	Investigations of various layers for photo-electrochemical water splitting applications using Kelvin probe force microscopy
Remes	Czech Academy of Sciences, Prague	Czech Republic	Surface treatment of ZnO microrods by the inductively coupled hydrogen plasma with self-biased holder
Buryi	Czech Academy of Sciences, Prague	Czech Republic	Investigation of GaN thin films by electrically detected magnetic resonance and luminescence techniques
Welcome reception	19:30		
Tuesday morning sessions			
Tuesday	8.30-10.30		Materials and technologies
Hornak	University of West Bohemia, Plzen	Czech Republic	Cold-curing potting compounds and possibilities of their modification by incorporation of nanoparticles
Radziewicz	Wroclaw University of Science and Technology, Wroclaw	Poland	Gradient-doped InP cladding layers for QCL grown by LP-MOVPE
Badura	Wroclaw University of Science and Technology, Wroclaw	Poland	Influence of the substrate heating on the defects density of MOVPE grown layers
Dawidowski	Wroclaw University of Science and Technology, Wroclaw	Poland	How does nitrogen incorporate into GaAsN epitaxial layers?
Gucmann	Slovak Academy of Sciences, Bratislava	Slovak Republic	Growth and properties of e-Ga ₂ O ₃ on sapphire substrates
Coffee	10.30-10.50		
Tuesday	10.50-12.30		Electronic devices
Marek	Slovak University of Technology, Bratislava	Slovak Republic	Power SiC MOSFET under repetitive UIS and short circuit stress
Chvala	Slovak University of Technology, Bratislava	Slovak Republic	Calibration of electrothermal circuit model of power IGBT module
Florovic	Slovak University of Technology, Bratislava	Slovak Republic	Channel temperature determination of HEMT in quasi-static operation
Prazmowska-Czajka	Wroclaw University of Science and Technology, Wroclaw	Poland	Flexible meshes for medical application
Stafiniak	Wroclaw University of Science and Technology, Wroclaw	Poland	Atomic layer etching of gallium nitride
Lunch	12.30-13.30		
Tuesday afternoon sessions			
Tuesday	13.30-15.30		PhD competition I
Drobny	Slovak University of Technology, Bratislava	Slovak Republic	Investigation of Emission and Capture Processes in Si IGBT
Egyenes-Pörsök	Slovak Academy of Sciences, Bratislava	Slovak Republic	Optimization of Ohmic contact formation for α -Ga ₂ O ₃ epitaxial layers grown by MOCVD
Feiler	Slovak University of Technology, Bratislava	Slovak Republic	Design and simulation of optical waveguide sensor based on SiN material platform utilising surface plasmon resonance
Grochowska	Cadence Design Systems, Warsaw	Poland	The impact of well-edge proximity effect on MOS threshold voltage in submicron CMOS technologies
Hrda	Slovak Academy of Sciences, Bratislava	Slovak Republic	Selenium content influences the charge carrier mobility in few-layer PtSe ₂ films
Chymo	Slovak University of Technology, Bratislava	Slovak Republic	Preparation and analysis of Ni/NiO based MIS photoanodes
Kemeny	Slovak University of Technology, Bratislava	Slovak Republic	Impedance characterization of Li-ion batteries for ageing mechanism analysis
Koci	Czech Academy of Sciences, Prague	Czech Republic	Development and measurement of gas sensors based on diamond and transition metal dichalcogenide materials
Krawczyk	Wroclaw University of Science and Technology, Wroclaw	Poland	Pitfalls of implementation of metal oxide nanowires-based gas sensor
Łozińska	Wroclaw University of Science and Technology, Wroclaw	Poland	Study of the epitaxial interface of AlInAs/InP heterostructure using the photoluminescence technique
Micek	University of Zilina	Slovak Republic	Microring structure for near-field focusing
Minarik	Slovak University of Technology, Bratislava	Slovak Republic	In-rush current limiter for battery operated DC-DC converter modules
Coffee	15.30-15.50		

Tuesday	15.50-18.00		PhD competition II
Mizera	University of Zilina	Slovak Republic	Concept of 3D Polymer based MMI Splitter
Ondrejka	Slovak University of Technology, Bratislava	Slovak Republic	MoS ₂ disulfides based supercapacitors and water splitting structures
Podlucky	Slovak University of Technology, Bratislava	Slovak Republic	Fabrication of integrated photonics waveguides based on Silicon Oxynitride
Pohorelec	Slovak Academy of Sciences, Bratislava	Slovak Republic	Mg doping of InAlN layers
Sobota	Slovak University of Technology, Bratislava	Slovak Republic	Electrical characterization of new high mobility n-type semiconductors based on quateriophene
Stępnia	Wrocław University of Science and Technology, Wrocław	Poland	Modelling of GaN selective area metalorganic vapour phase epitaxy
Stępniewski	Warsaw University of Technology, Warsaw	Poland	A precise temperature sensor with polynomial calibration
Sichman	Slovak Academy of Sciences, Bratislava	Slovak Republic	Optimization of SiCl ₄ – based reactive ion etching and nickel hard mask for GaN on GaN vertical structures
Vincze	International Laser Centre SCSTI, Bratislava	Slovak Republic	Impact of gate voltage on the response time of CuPc and ZnPc photosensitive organic field-effect transistors
Vojtekova	Slovak Academy of Sciences, Bratislava	Slovak Republic	Optical conductance and absorption in selenised few-layered PtSe ₂ films
Wiechowski	Warsaw University of Technology, Warsaw	Poland	Fully-integrated intermediate frequency stage of dual-frequency multi-system global navigation satellite system (GNSS) receiver in CMOS 110 nm technology
Ziman	Slovak University of Technology, Bratislava	Slovak Republic	Simulations of surface plasmon resonance based fiber probe
Zawadzka	Wrocław University of Science and Technology, Wrocław	Poland	Experimental aspects of chromium etching process for the lithography mask fabrication
Conference dinner	19:30		
Wednesday morning social program			
Trip/light hiking			
Wednesday afternoon session			
Wednesday	19.30-21.00		Poster Session
Drobny	Slovak University of Technology, Bratislava	Slovak Republic	Study of semi-vertical GaN-on-Si FETs by DLTFs with optical excitation
Durisova	University of Zilina	Slovak Republic	AFM analysis of microring zone structure
Gasó	University of Zilina	Slovak Republic	Polymer based waveguide Bragg grating prepared by DLW
Goraus	University of Zilina	Slovak Republic	Michelson interferometer for lab on fiber applications
Hardon	University of Zilina	Slovak Republic	The influence of ZnO nanoparticles on the dielectric properties of two types of polyurethanes
Hrabina	Czech Academy of Sciences, Brno	Czech Republic	Optical performance of antireflective coatings in iodine-filled absorption cells
Chymo	Slovak University of Technology, Bratislava	Slovak Republic	Characterization of MIS photoanodes with thin Pt layer for water splitting applications
Kacik	University of Zilina	Slovak Republic	Impact of train speed on the train axle determination
Kozarik	Slovak University of Technology, Bratislava	Slovak Republic	Degradation of 600V GaN HEMT with p-GaN gate under repetitive short circuit stress
Kuzma	Slovak University of Technology, Bratislava	Slovak Republic	Near-field probes based on nanocone and nanopyramid– design and simulation
Latal	Technical University of Ostrava, Ostrava	Czech Republic	Solution of optical fiber ends for visible light communication applications
Potocky	Czech Academy of Sciences, Prague	Slovak Republic	Diamond films and structures grown from polyacrylonitrile composites
Pribytny	Slovak University of Technology, Bratislava	Slovak Republic	Analysis and optimization of power module supported by new TCAD simulation methodology for 3-D electro-physical and advanced thermal analysis
Serecunova	Vorarlberg University of Applied Sciences, Dornbirn	Austria	Influence of different shapes of output waveguides on optical performance of 1x128 multimode interference splitter
Seyringer	Vorarlberg University of Applied Sciences, Dornbirn	Austria	Design of 16-channel, 100-GHz polymer-based AWG
Slusna	Slovak Academy of Sciences, Bratislava	Slovak Republic	Orientation of Few-Layer MoS ₂ Films: In-Situ X-ray Scattering Study 2 During Sulfurization
Suslik	University of Zilina	Slovak Republic	3D photonic structures for optoelectronics applications
Vanderka	Technical University of Ostrava, Ostrava	Czech Republic	Construction of optical probe for magnetic field measurement
Vanko	Slovak Academy of Sciences, Bratislava	Slovak Republic	Impact of MoS ₂ 2D layers on performance of AlGaIn/GaN HEMTs
Zehetner	Vorarlberg University of Applied Sciences, Dornbirn	Austria	Fabrication of passive and active photonic coupling structures using fs-laser ablation