

61st INTERNATIONAL CONFERENCE ON MICROELECTRONICS, DEVICES AND MATERIALS (MIDEM 2026)

Time	Monday 28.9. CONFERENCE		Tuesday 29.9. WORKSHOP on Integrated Photonics		Wednesday 30.9. CONFERENCE	
08:30-09:00		Registration		Registration		Registration
09:00-09:15		Conference Opening		Workshop Opening		Interplay of Corrugation Geometry and Dipole Orientation on Light Extraction in Organic and Perovskite LEDs <i>Milan Kovačič et al.</i>
09:15-09:30	Materials, Technology, and Devices-I	INVITED Flexible composites for energy storage and harvesting: how material design and processing affect functional properties <i>Giovanna Canu</i>	Workshop	PLENARY Silicon photonics: emerging trends, opportunities and challenges <i>Roel Baets</i>	Optoelectronics	Laser-scribed interconnections: from perovskite solar cells to mini-modules <i>Shivam Nauriyal et al.</i>
09:30-09:45		On the maximum in the piezoelectric response of the solid solution (1-x)BiFeO3-xBaTiO3 <i>Alberto Giribaldi et al.</i>				Integration of Temperature and Humidity Sensors into Encapsulated Perovskite Solar Cells <i>Arslan Ali et al.</i>
09:45-10:00		Utilization of Focused Ion Beam (FIB) for Cross-section and Transmission Electron Microscopy analyses of Semiconductors and Chips <i>Nik Gračanin et al.</i>				Power Management of Bluetooth Wireless Irradiance Sensors <i>Sašo Domadenik et al.</i>
10:00-10:15		Multiscale analysis of a commercial and lab-fabricated SOFC <i>Žiga Bertalančič et al.</i>				Fast Bidirectional IV Curve Acquisition of High-efficiency PV Modules <i>Jasja Vid Meh Peer et al.</i>
10:15-10:30						Electrical modelling of High Efficiency PV modules using Spice <i>Jonas Aleksander Oražem et al.</i>
10:30-10:45		Coffee break		Coffee break		Compositional Design of Wide-Bandgap Perovskites for Efficient and Stable Tandem Photovoltaics <i>Fernando Solorio et al.</i>
10:45-11:00						
11:00-11:15	Materials, Technology, and Devices-II	From SEM-Induced Carbon Contamination to Nanostructure Growth and Near-Surface Transformations <i>Ibrahim Hameli et al.</i>	Workshop	INVITED Photonic Integrated Circuits: From Sensing and Telecommunication to Quantum Applications <i>Borislav Hinkov</i>	Integrated Circuits and Electronics-I	Coffee break
11:15-11:30		Measured and simulated ion number density in low pressure argon RF plasma <i>Filip Kos Maligoj et al.</i>				A Switched-Capacitor Auto-Zeroing Ripple Reduction Loop for a Low-Noise Chopper Charge Amplifier used in an Artificial Nose detection system <i>Ajda Tuševski et al.</i>
11:30-11:45		PLASMA-SURFACE ENGINEERING OF Ti ₂ C MXENE FOR ENERGY STORAGE APPLICATIONS <i>Laura Martinčič et al.</i>				Transient Noise Simulation in VACASK <i>Árpád Búrmen</i>
11:45-12:00		Coaxial Core-Shell Carbon/Tin Sulfide Nanohybrids for High-Performance and Durable Supercapacitor Electrodes <i>Anjana Baby et al.</i>				A Grammatical-Evolution-Based Front-End for Automated EEC Initialization in EIS <i>M. Žic et al.; presenting: M. Kunaver</i>
12:00-12:15		Localized Surface Plasmon Resonance Enhanced Laser Lithography on Highly Insulating Substrates <i>Shafayet Yaseen et al.</i>				
12:15-13:45		Lunch break		Lunch break		Lunch break

Time	Monday 28.9. CONFERENCE	Tuesday 29.9. WORKSHOP on Integrated Photonics	Wednesday 30.9. CONFERENCE
13:45-14:00	0.7Pb(Fe0.5Nb0.5)O3–0.3BiFeO3 thick films for energy storage applications <i>Ivana Goričan et al.</i>	Workshop INVITED Quantum Photonic Integrated Circuits with Self-Assembled Quantum Dots <i>Leonardo Midolo</i> INVITED Microscale generation and control of nano-second light by light in liquid crystals <i>Igor Muševič</i>	Integrated Circuits and Electronics-I Device for Testing and Development of an Electric Vehicle Charging Station <i>Jani Zrnec et al.</i>
14:00-14:15	Optimization of Energy Storage Properties of Antiferroelectric Thick Films Through MLCC Architecture <i>Thomas Fourgassie et al.</i>		Reliability Challenges of Commercial Power p-Channel VDMOS Under NBT Stress <i>Danijel Danković et al.</i>
14:15-14:30	Preparation of Pb(Sc0.5Ta0.5)O3 thick films by powder aerosol deposition <i>Matteo d'Angelo et al.</i>		Impact of Prior NBT Stress on the Self-Heating Behavior of Power P- and N-Channel VDMOS Transistors <i>Sandra Veljković et al.</i>
14:30-14:45	Fabrication of polyimide thick films via powder aerosol deposition <i>Nejc Suban et al.</i>		Impact of Gamma Radiation on Breakdown Voltage Stability and Reliability of Gas-Filled Surge Arresters from Different Manufacturers <i>Emilija Živanović et al.</i>
14:45-15:00	Ascorbic Acid-Assisted Hydrothermal Growth of ZnO Films for Functional Semiconductor Applications <i>Karina N. Enriquez Maruri et al.; presenting: Matejka Podlogar</i>	Short Coffee break	Coffee break
15:00-15:15	Coffee break	Design and Characterization of Low-Loss Integrated Photonic Components and Interfaces <i>Andraž Debevc et al.</i>	Sensors and MEMS Fluidic platform for electrochemical detection of pesticides in water <i>Nina Pugelj et al.</i> Experimental Study of Cross-Regime Gas Transport Through Long Microcapillaries: Towards Reliable Predictive Models for MEMS <i>Milica Pena et al.</i> Label-free Hela Cells detection <i>Vera Gradišnik</i> Thermal Optimization of a DNA Amplification in a Micro-PCR System <i>Aljaž Zadravec et al.</i> Nanostructuring of Boron-Doped Diamond for Electrochemical, Sensing, and Environmental Applications <i>Marian Vojs et al.</i> Electrochemical Screen-Printed Electrode-Based Sensor For Ergosterol Detection As A Marker Of Potential Food Fungal Contamination <i>Lucie Korecká et al.</i> Practical Aspects in Electroanalysis with Screen-Printed Sensors with Boron-Doped Diamond Electrode <i>Radovan Metelka et al.</i>
15:15-15:30		Robust Coupler Design for Efficient Heterogeneous Integration of Quantum Photonic Devices <i>Miloš Ljubotina et al.</i>	
15:30-15:45	Development of an LCR meter <i>David Vidergar et al.</i> Designing a High-End PCB in Kicad <i>Timotej Hercog et al.</i>	Workshop Design of a Photonic Master for Nanoimprint Lithography of Perovskite Layer in Integrated Photonic Circuits <i>Merisha Fernando et al.</i>	
15:45-16:00	Optimizing Exhaustive Search for the Game of Domineering <i>Vid Furlan</i> Transforming Python Code into a Single Line <i>Aljaž Berginc et al.</i>	Design of Silicon Nitride Integrated Photonic Components for In-House Photonic Platform Characterization <i>Matej Poljanšek et al.</i> Design of Fabrication-Tolerant Multimode Interference Splitters in Silicon Nitride Photonic Integrated Circuits <i>Egor Chebaniuk et al.</i>	
16:00-16:15	High School Student Session Research and construction of a hard beta and gamma sensitive Geiger counter <i>Vid Horvat et al.</i> Research and Development of a Smart Two-Stage Model Rocket <i>Natan Jurca et al.</i> Construction and Characterization of a Pirani Vacuum Gauge Based on an Incandescent Light Bulb <i>Petra Leskovec et al.</i> Design and Development of a Thermal Evaporation System for Metal Thin Film Deposition <i>Tibor Maček et al.</i> Mastering the Curve: Hands-on Approach to Unreal Engine and VR Development <i>Niko Maren et al.</i> Design and Implementation of a 6-DOF Stewart Platform Motion Simulator for Racing Applications <i>Jakob Slapar et al.</i>		
16:15-16:30			
16:30-16:45			
16:45-17:00			
17:00-17:15		Ljubljana tour Meeting point: MIDEM Info point 16:35 or Kongresni trg 12, in front of the University 17:00	Conference Closing
17:15-18:00			
18:00-19:00	High School Student Poster Session		
19:00-19:30	Welcome party		
19:30-21:30		Conference dinner Pod Vrbo Ziherlova ul. 36	

Monday 28.9. CONFERENCE

08:30-09:00	Registration
09:00-09:15	Conference Opening
	Materials, Technology, and Devices-I <i>Chair: Slavko Bernik</i>
09:15-09:45	INVITED Flexible composites for energy storage and harvesting: how material design and processing affect functional properties <i>Giovanna Canu</i> National Research Council of Italy – Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATE), via De Marini 6, 16149 Genova, Italy
09:45-10:00	On the maximum in the piezoelectric response of the solid solution (1-x)BiFeO₃-xBaTiO₃ <i>Alberto Giribaldi^{1,2}, Tadej Rojac²</i> ¹ Jožef Stefan International Postgraduate School, Jamova cesta 39, 1000 Ljubljana, Slovenia ² Department of Electronic Ceramics, Jožef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia
10:00-10:15	Utilization of Focused Ion Beam (FIB) for Cross-section and Transmission Electron Microscopy analyses of Semiconductors and Chips <i>Nik Gračanin, Matejka Podlogar</i> Department for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia
10:15-10:30	Multiscale analysis of a commercial and lab-fabricated SOFC <i>Žiga Bertalančič^{1,2}, Kostja Makarovič¹, Blaž Perko¹, Duyen Nguyen³, Annie Le Gal La Salle³, Olivier Joubert³, Barbara Malič^{1,2}, Andraž Bradeško¹</i> ¹ Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Ljubljana, Slovenia ³ Institut des Matériaux de Nantes Jean Rouxel, Université de Nantes, CNRS, Nantes, France
10:30-11:00	Coffee break
	Materials, Technology, and Devices-II <i>Chair: Slavko Bernik</i>
11:00-11:15	From SEM-Induced Carbon Contamination to Nanostructure Growth and Near-Surface Transformations <i>Ibrahim Hameli^{1,2,3}, Vasyl Shvallyal², Neelakandan M. Santhosh², Ardita Kurtishaj Hamzaj^{1,2}, Oleg Baranov^{2,3}, Uroš Cvelbar^{1,2}, Janez Zavašnik^{1,2}</i> ¹ Department of Gaseous Electronics (F6), Jožef Stefan Institute, Jamova cesta 39, SI-1000 Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Jamova cesta 39, SI-1000 Ljubljana, Slovenia ³ Department of Physics, University of Prishtina "Hasan Prishtina", George Bush 31, 10000 Prishtina, Kosovo
11:15-11:30	Measured and simulated ion number density in low pressure argon RF plasma <i>Filip Kos Maligoj¹, Rok Zaplotnik²</i> ¹ Department of Surface Engineering, F4, Jozef Stefan Institute, Jamova 39, 1000 Ljubljana, Slovenia ² Faculty of Mathematics and Physics, University of Ljubljana, Jadranska 19, 1000 Ljubljana, Slovenia
11:30-11:45	PLASMA-SURFACE ENGINEERING OF Ti₂C MXENE FOR ENERGY STORAGE APPLICATIONS <i>Laura Martinčič¹, Anjana Baby¹, Neelakandan M Santhosh¹, Uroš Cvelbar¹, Aleksander Zidanšek²</i> ¹ Department of Gaseous Electronics (F6), Jožef Stefan Institute, Ljubljana, ² Department of Condensed Matter Physics (F5), Jožef Stefan Institute, Ljubljana

11:45-12:00	Coaxial Core-Shell Carbon/Tin Sulfide Nanohybrids for High-Performance and Durable Supercapacitor Electrodes <i>Anjana Baby, Janez Zavasnik, Neelakandan M Santhosh</i> Department of Gaseous electronics (F6), Jožef Stefan Institute, Slovenia
12:00-12:15	Localized Surface Plasmon Resonance Enhanced Laser Lithography on Highly Insulating Substrates <i>Shafayet Yaseen^{1,2}, Damjan Vengust¹, Vasyl Shvalya¹, Uroš Cvelbar^{1,2}</i> ¹ Jožef Stefan Institute, Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Ljubljana, Slovenia
12:15-13:45	Lunch break
	Thin and Thick Films <i>Chair: Hana Uršič Nemevšek</i>
13:45-14:00	0.7Pb(Fe_{0.5}Nb_{0.5})O₃-0.3BiFeO₃ thick films for energy storage applications <i>Ivana Goričan^{1,2}, Andreja Benčan^{1,2}, Silvo Drnovšek¹, Antonio Iacomini¹, Nejc Suban^{1,2}, Brigita Kmet¹, Uroš Prah¹, Tadej Rojac^{1,2}, Hana Uršič^{1,2}</i> ¹ Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Ljubljana, Slovenia
14:00-14:15	Optimization of Energy Storage Properties of Antiferroelectric Thick Films Through MLCC Architecture <i>Thomas Fourgassie, Aadil Abass Shah, Žiga Bertalanič, Andraž Bradeško, Danjela Kuščer, Mojca Otoničar</i> Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia
14:15-14:30	Preparation of Pb(Sc_{0.5}Ta_{0.5})O₃ thick films by powder aerosol deposition <i>Matteo d'Angelo¹, Victor Regis^{1,2}, Ivana Goričan^{1,2}, Hana Uršič^{1,2}</i> ¹ Electronic Ceramics Department, Jožef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Jamova cesta 39, 1000 Ljubljana, Slovenia
14:30-14:45	Fabrication of polyimide thick films via powder aerosol deposition <i>Nejc Suban^{1,2}, Blaž Velkavrh^{1,2}, Matej Šadl¹, Andraž Bradeško², Victor Regis^{1,2}, Brigita Kmet¹, Ivana Goričan^{1,2}, Alaka Panda¹, Soukaina Merselmiz¹, Hana Uršič^{1,2}</i> ¹ Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Ljubljana, Slovenia
14:45-15:00	Ascorbic Acid-Assisted Hydrothermal Growth of ZnO Films for Functional Semiconductor Applications <i>Karina N. Enriquez Maruri^{1,2}, Klara Laura Cokan^{1,2}, Tina Radošević¹, <u>Matejka Podlogar¹</u></i> ¹ Department for Nanostructured Materials, Jožef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia ² Jožef Stefan International Postgraduate School, Jamova cesta 39, 1000 Ljubljana, Slovenia
15:00-15:30	Coffee break

High School Student Session Chair: Matija Pirc	
15:30-17:15	Development of an LCR meter <i>David Vidergar, David Zindović, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering Designing a High-End PCB in Kicad <i>Timotej Hercog, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering Optimizing Exhaustive Search for the Game of Domineering <i>Vid Furlan</i> The Upper Secondary School of Electrical and Computer Engineering Transforming Python Code into a Single Line <i>Aljaž Berginc, Matic Podpadec, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering Research and construction of a hard beta and gamma sensitive Geiger counter <i>Vid Horvat, Aleš Volčini, Rasto Snoj, Urban Pompe</i> The Upper Secondary School of Electrical and Computer Engineering Research and Development of a Smart Two-Stage Model Rocket <i>Natan Jurca, Iztok Merljak, Rasto Snoj, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering Construction and Characterization of a Pirani Vacuum Gauge Based on an Incandescent Light Bulb <i>Petra Leskovec^{1,2}, Matic Jakšič^{2,3}, Tomaž Jeromen^{2,3}, Bor Kokovnik², Luka Pogačnik</i> ¹ Gimnazija Bežigrad, Ljubljana, Slovenia ² Zavod 404, Ljubljana, Slovenia ³ Gimnazija Ledina, Ljubljana, Slovenia Design and Development of a Thermal Evaporation System for Metal Thin Film Deposition <i>Tibor Maček^{1,2}, Matic Strgar^{1,2}, Lenart Percl Antolič^{1,2}, Bor Kokovnik², Luka Pogačnik²</i> ¹ Gimnazija Vič, Ljubljana, Slovenia ² Zavod 404, Ljubljana, Slovenia Mastering the Curve: Hands-on Approach to Unreal Engine and VR Development <i>Niko Maren, Tilen Šimenc, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering Design and Implementation of a 6-DOF Stewart Platform Motion Simulator for Racing Applications <i>Jakob Slapar, David Zindović, Aleš Volčini</i> The Upper Secondary School of Electrical and Computer Engineering
17:15-18:00	High School Student Poster Session
18:00-19:00	Welcome party

Tuesday 29.9. WORKSHOP on Integrated Photonics

08:30-09:00	Registration
09:00-09:15	Workshop Opening
09:15-10:00	Workshop <i>Chair: Janez Krč</i>
	PLENARY Silicon photonics: emerging trends, opportunities and challenges <i>Roel Baets</i> Photonics Research Group, Department of Information Technology (INTEC), Ghent University and imec, Ghent, Belgium
10:00-10:30	INVITED Photonic Integrated Circuits for Signal Processing and Computing <i>Andrea Melloni</i> Department of Electronics, Information and Bioengineering, Politecnico di Milano, 20133 Milano, Italy
10:30-11:00	Coffee break
11:00-11:30	Workshop <i>Chair: Andraž Debevc</i>
	INVITED Photonic Integrated Circuits: From Sensing and Telecommunication to Quantum Applications <i>Borislav Hinkov</i> Integrated Photonics Technologies, Silicon Austria Labs, Villach, Austria
11:30-12:00	INVITED Electro-optic modulators and frequency combs in thin-film lithium niobate <i>Urban Senica</i> Laboratory for Nanoscale Optics, John A. Paulson School of Engineering and Applied Sciences, Harvard University, Cambridge MA, USA
12:00-12:15	Group photo
12:15-13:45	Lunch break
13:45-14:15	Workshop <i>Chair: Andraž Debevc</i>
	INVITED Quantum Photonic Integrated Circuits with Self-Assembled Quantum Dots <i>Leonardo Midolo</i> Niels Bohr Institute, University of Copenhagen, Denmark.
14:15-14:45	INVITED Microscale generation and control of nanosecond light by light in liquid crystals <i>Igor Muševič^{1,2}</i> ¹ Condensed Matter Physics Department, J. Stefan Institute; Jamova 39, 1000 Ljubljana, Slovenia ² Faculty of Mathematics and Physics, University of Ljubljana; Jadranska 19, 1000 Ljubljana, Slovenia
14:45-15:00	Short Coffee break

	Workshop <i>Chair: Janez Krč</i>
15:00-15:15	Design and Characterization of Low-Loss Integrated Photonic Components and Interfaces <i>Andraž Debevc, Miloš Ljubotina, Merisha Fernando, Matej Poljanšek, Marko Topič, Janez Krč</i> University of Ljubljana, Faculty of Electrical Engineering, Ljubljana, Slovenia
15:15-15:30	Robust Coupler Design for Efficient Heterogeneous Integration of Quantum Photonic Devices <i>Miloš Ljubotina¹, Jasper De Witte^{2,3}, Zhe Liu^{4,5}, Andraž Debevc¹, Leonardo Midolo⁴, Gunther Roelkens^{2,3}, Bart Kuyken^{2,3}, Dries Van Thourhout^{2,3}, Marko Topič¹, Janez Krč¹</i> ¹ Faculty of Electrical Engineering, University of Ljubljana, Tržaška cesta 25, 1000 Ljubljana, Slovenia ² Photonics Research Group, Ghent University - imec, Technologiepark-Zwijnaarde 126, 9052 Ghent, Belgium ³ Center for Nano- and Biophotonics (NB-Photonics), Ghent University, Technologiepark Zwijnaarde 15, 9052 Ghent, Belgium ⁴ Center for Hybrid Quantum Networks, Niels Bohr Institute, University of Copenhagen, Blegdamsvej 17, 2100 Copenhagen, Denmark ⁵ Sparrow Quantum ApS, Nordre Fasanvej 215, 2000 Frederiksberg, Denmark
15:30-15:45	Design of a Photonic Master for Nanoimprint Lithography of Perovskite Layer in Integrated Photonic Circuits <i>Merisha Fernando, Andraž Debevc, Miloš Ljubotina, Marko Topič, Janez Krč.</i> University of Ljubljana, Faculty of Electrical Engineering, Tržaška 25, 1000 Ljubljana, Slovenia.
15:45-16:00	Design of Silicon Nitride Integrated Photonic Components for In-House Photonic Platform Characterization <i>Matej Poljanšek, Andraž Debevc, Miloš Ljubotina, Merisha Fernando, Marko Topič, Janez Krč</i> University of Ljubljana, Faculty of electrical engineering, Tržaška 25, 1000 Ljubljana, Slovenia
16:00-16:15	Design of Fabrication-Tolerant Multimode Interference Splitters in Silicon Nitride Photonic Integrated Circuits <i>Egor Chebaniuk, Matej Poljanšek, Andraž Debevc</i> Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia
17:00-19:00	Ljubljana tour Meeting point: MIDEM Info point 16:35 or Kongresni trg 12, in front of the University 17:00
19:30-21:30	Conference dinner Pod Vrbo Ziherlova ul. 36

Wednesday 30.9. CONFERENCE

08:30-09:00	Registration
	Optoelectronics <i>Chair: Marko Topič</i>
09:00-09:15	Interplay of Corrugation Geometry and Dipole Orientation on Light Extraction in Organic and Perovskite LEDs <i>Milan Kovačič, Janez Krč, Marko Topič</i> Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia
09:15-09:30	Laser-scribed interconnections: from perovskite solar cells to mini-modules <i>Shivam Nauriyal, Marko Topič, Marko Jošt</i> Faculty of Electrical Engineering, University of Ljubljana, Tržaška 25, 1000 Ljubljana, Slovenia
09:30-09:45	Integration of Temperature and Humidity Sensors into Encapsulated Perovskite Solar Cells <i>Arslan Ali, Marko Jošt, Kristijan Brecl, Marko Topič, Marko Jankovec</i> Faculty of Electrical Engineering, University of Ljubljana, Tržaška 25, 1000 Ljubljana, Slovenia
09:45-10:00	Power Management of Bluetooth Wireless Irradiance Sensors <i>Sašo Domadenik, Marko Jankovec, Marko Topič</i> Laboratory of Photovoltaics and Optoelectronics, University of Ljubljana, Faculty of Electrical
10:00-10:15	Fast Bidirectional IV Curve Acquisition of High-efficiency PV Modules <i>Jaša Vid Meh Peer, Marko Topič, Marko Jankovec</i> Laboratory of Photovoltaics and Optoelectronics,
10:15-10:30	Electrical modelling of High Efficiency PV modules using Spice <i>Jonas Aleksander Oražem^{1,2}, Marko Topič¹, Marko Jankovec¹</i> ¹ Faculty of Electrical Engineering, University of Ljubljana, Tržaška cesta 25, 1000 Ljubljana, Slovenia ² Metrel d.o.o., Ljubljanska cesta 77, 1354 Horjul, Slovenia
10:30-10:45	Compositional Design of Wide-Bandgap Perovskites for Efficient and Stable Tandem Photovoltaics <i>Fernando Solorio, Marko Topič, Marko Jošt</i> Faculty of Electrical Engineering, University of Ljubljana,
10:45-11:15	Coffee break
	Integrated Circuits and Electronics-I <i>Chair: Andrej Žemva</i>
11:15-11:30	A Switched-Capacitor Auto-Zeroing Ripple Reduction Loop for a Low-Noise Chopper Charge Amplifier used in an Artificial Nose detection system <i>Ajda Tuševski, Drago Strle</i> University of Ljubljana, Department of Electrical Engineering,, Tržaška 25, 1000 Ljubljana, Sloveni
11:30-11:45	Transient Noise Simulation in VACASK <i>Árpád Bűrmen</i> Faculty of Electrical Engineering, University of Ljubljana, Tržaška cesta 25, Ljubljana, Slovenia
11:45-12:00	A Grammatical-Evolution-Based Front-End for Automated EEC Initialization in EIS <i>M. Žic¹, M. Kunaver², A. Bűrmen², T. Tuma²</i> ¹ Ruđer Bošković Institute, Zagreb, Croatia ² Faculty of Electrical Engineering, University of Ljubljana, Slovenia
12:00-12:15	A Single-Microcontroller Control System for Throttleable Rocket Engines <i>Leon Ulčakar^{1,2}, Andrej Žemva¹</i> ¹ Faculty of Electrical Engineering, University of Ljubljana, 1000 Ljubljana, Slovenia ² Noordung Labs, 1000 Ljubljana, Slovenia
12:15-13:45	Lunch break

Integrated Circuits and Electronics-II <i>Chair: Andrej Žemva</i>	
13:45-14:00	Device for Testing and Development of an Electric Vehicle Charging Station <i>Jani Zrnec, Andrej Žemva</i> Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia
14:00-14:15	Reliability Challenges of Commercial Power p-Channel VDMOS Under NBT Stress <i>Danijel Danković, Emilija Živanović, Lana Tasić, Dunja Đorđević, Miloš Marjanović, Sandra Veljković, Nikola Mitrović, Vojkan Davidović, Goran Ristić</i> Faculty of Electronic Engineering, University of Niš, Serbia, Aleksandra Medvedeva 4, 18000 Niš, Serbia
14:15-14:30	Impact of Prior NBT Stress on the Self-Heating Behavior of Power P- and N-Channel VDMOS Transistors <i>Sandra Veljković, Nikola Mitrović, Emilija Živanović, Miloš Marjanović, Lana Tasić, Dunja Đorđević, Vojkan Davidović, Goran Ristić, Danijel Danković</i> Department of Microelectronics, Faculty of Electronic Engineering, University of Niš, Niš, Serbia
14:30-14:45	Impact of Gamma Radiation on Breakdown Voltage Stability and Reliability of Gas-Filled Surge Arresters from Different Manufacturers <i>Emilija Živanović, Sandra Veljković</i> Department of Microelectronics, Faculty of Electronics Engineering, University of Niš, Niš, Serbia
14:45-15:15	Coffee break
Sensors and MEMS <i>Chair: Matej Možek</i>	
15:15-15:30	Fluidic platform for electrochemical detection of pesticides in water <i>Nina Pugelj^{1,2}, Andraž Bradeško^{1,2}, Izabela Čurković¹, Darko Belavič¹, Danjela Kuščer^{1,2}</i> ¹ Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia ² Jožef Stefan Postgraduate School, Ljubljana, Slovenia
15:30-15:45	Experimental Study of Cross-Regime Gas Transport Through Long Microcapillaries: Towards Reliable Predictive Models for MEMS <i>Milica Pena^{1,2}, Ardita Kurtishaj Hamzaj^{1,2}, Marko Žumer¹, Oleg Baranov¹, Vincenc Nemanič¹, Uroš Cvelbar^{1,2}</i> ¹ Institute Jožef Stefan, Department of Gaseous electronics F6, Ljubljana, Slovenia ² Jožef Stefan Postgraduate School, Ljubljana, Slovenia
15:45-16:00	Label-free Hela Cells detection <i>Vera Gradišnik^{1,2}</i> ¹ Department of Automation and Electronics, University of Rijeka, Faculty of Engineering, Rijeka, Croatia ² Center for Micro- and Nonosciences and Technologies, Rijeka, Croatia
16:00-16:15	Thermal Optimization of a DNA Amplification in a Micro-PCR System <i>Aljaž Zadavec, Borut Pečar, Danilo Vrtačnik, Matej Možek</i> Laboratory of Microsensor Structures and Electronics (LMSE), Faculty of electrical engineering, University of

16:15-16:30	Nanostructuring of Boron-Doped Diamond for Electrochemical, Sensing, and Environmental Applications <i>Marian Vojs¹, Marián Marton¹, Pavol Michniak¹, Miroslav Behúl¹, Michal Pifko¹, Andrea Vojs Staňová^{2,3}</i> ¹ Institute of Electronics and Photonics, Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Ilkovičova 3, 841 04 Bratislava, Slovak Republic ² Comenius University in Bratislava, Faculty of Natural Sciences, Department of Analytical Chemistry, Ilkovičova 6, SK-842 15 Bratislava, Slovak Republic ³ University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Zátíší 728/II, CZ-389 25 Vodňany, Czech Republic
16:30-16:45	Electrochemical Screen-Printed Electrode-Based Sensor For Ergosterol Detection As A Marker Of Potential Food Fungal Contamination <i>Lucie Korecká¹, Dominik Novák¹, Iveta Brožková¹, Marian Vojs³, Radovan Metelka²</i> ¹ Department of Biological and Biochemical Sciences, Faculty of Chemical Technology, University of Pardubice, Pardubice, Czech Republic ³ Institute of Electronics and Photonics, Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Bratislava, Slovak Republic ² Department of Analytical Chemistry, Faculty of Chemical Technology, University of Pardubice, Pardubice, Czech Republic
16:45-17:00	Practical Aspects in Electroanalysis with Screen-Printed Sensors with Boron-Doped Diamond Electrode <i>Radovan Metelka¹, Martina Svitáková¹, Monika Bínová¹, Jelena Ostojić², Dalibor Stanković²</i> ¹ Department of Analytical Chemistry, Faculty of Chemical Technology, University of Pardubice, Pardubice, Czech Republic ² Faculty of Chemistry, University of Belgrade, Belgrade, Serbia
17:00-17:15	Conference Closing