

time	Wednesday, 1. 10.	Thursday, 2. 10.	Friday, 3. 10.
	CONFERENCE	WORKSHOP	CONFERENCE
08:00		REGISTRATION	REGISTRATION
8:30 - 8:45	8:30 Departure from Jožef Stefan Institute (JSI), Jamova cesta 39, Ljubljana to the institute's Reactor Center Podgorica by organized transport		Tomc: <i>Digital microfluidics: A fun way to manipulate droplets</i>
8:45 - 9:00		Opening of the workshop	
9:00 - 9:15	Opening of the conference	Zeman: <i>Energy Hubs: A Solution for Energy Balancing between Local Demand and Supply from Renewables</i>	Janez Krč <i>Slovenian Competence Center on Chips and Semiconductor Technologies – CC Chip.si</i>
9:15 - 9:30			Matej Kropivnik, Drago Strle <i>Design of HF Comparator in CMOS Sol Technology</i>
9:30 - 9:45	Pompe: <i>Fusion</i>		Rok Pirnat, Drago Strle <i>N-path Filters in CMOS Technology</i>
9:45 - 10:00		Jiang: <i>CO₂ electrolysis mechanism in MIEC cathode of solid oxide cell</i>	Ajda Tuševski, Urška Gazdag, Aleksander Matavž, Drago Strle, Miha Ravník, Igor Muševič <i>Integrated multi-channel artificial nose for detection of cancer</i>
10:00 - 10:15	Exhibition tour - Energy	Varnagiris: <i>Advancing Hydrogen Production: Methane Pyrolysis and the InnoHyppy Project Approach</i>	Coffee break
10:15 - 10:30	Coffee break		
10:30 - 10:45		Coffee break	Ajda Tuševski, Drago Strle <i>Noise Optimization and Simulation of Chopper Amplifier Used in Artificial Nose Detection System</i>
10:45 - 11:00	Prah: <i>Piezoelectric energy harvesting in the milliwatt range with polyvinylidene fluoride-based polymers</i>		Árpád Bűrmen <i>VACASK – a novel analog integrated circuit simulator</i>
11:00 - 11:15		Bucher: <i>Materials for Electrochemical Energy Conversion and Storage in Solid Oxide Fuel and Electrolysis Cells</i>	Patricio Bulić, Rok Češnovar <i>Open-Source EDA Tools for ASIC Design: Introducing OpenLane and the Chiplgnite Program</i>
11:15 - 11:30	Marko Robić, Mira Ristić, Marijan Marciuš, Stjepko Krehula, Svetozar Musić <i>Tuning Semiconductor Properties of Electrospun Iron Oxide Nanofibers</i>		Žan Regoršek, Andrej Žemva <i>Temporal Benchmarking of Neural Stereo Matching Models</i>
11:30 - 11:45	Sabi William Konsago, Katarina Žiberna, Aleksander Matavž, Barnik Mandal, Sebastjan Glinšek, Barbara Malič <i>Microstructure-Functional Properties Correlation in 0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃ Thin Films Prepared by Chemical Solution Deposition</i>	Cordaro: <i>What SOFC Commercialization Can Teach Materials Scientists</i>	Firas Chahed, Egon Pavlica <i>Equivalent Circuit Modelling and Study of Charge Transport at Microscopic Level of Organic Field-effect Transistor</i>
11:45 - 12:00	Lan Kresnik, Peter Majerič and Rebeka Rudolf <i>Plasma Jet Printing of Gold Nanoparticles for High Frequency Printed Circuit Boards</i>		Vedran Budinski, Simon Peveci, Matej Njegovec and Denis Donlagic <i>High numerical aperture fibers for fiber to chip coupling</i>
12:00 - 12:15	Matteo d'Angelo, Victor Regis, Ivana Goričan, Silvo Drnovšek and Hana Uršič <i>Powder aerosol deposition of Pb(Sc_{0.5}Ta_{0.5})O₃ thick films</i>	Žiga Bertalančič, Kostja Makarovič, Blaž Perko, Barbara Malič, Andraž Bradeško: <i>Fabrication and microstructural analysis of a Solid Oxide Fuel Cell</i>	
12:15 - 12:30			Lunch break
12:30 - 12:45			
12:45 - 13:00			
13:00 - 13:15	Relocate to JSI (Jamova cesta 39, Ljubljana) & Lunch break	Lunch break	
13:15 - 13:30			Anže Mraz, Viktor V. Kabanov, Rok Venturini, Damjan Svetin, Viktorija Yursa, Bor Brezec, Tevž Lotrič, Matic Merljak, Jan Ravník, Dimitris Kazazis, Simon Gerber, Yasin Ekinci, Mihai Gabureac, Dragan Mihalovic <i>Electric Field Driven Hybrid Memory Cell</i>
13:30 - 13:45		Milan Kovačič, Marko Jošt, Janez Krč and Marko Topič <i>Optimization of Thin-Film Layer Thicknesses on Light Outcoupling in Perovskite LEDs</i>	Pavel Popovski, corresponding author dr. Andrej Seljak <i>Measurements at single photon level sensitivity</i>

13:45 - 14:00	Stoica: <i>Exploring Auxetic Piezoelectric Metamaterials for Next-Gen Acoustic Transducers</i>	Fernando Solorio, Marko Topič, Marko Jošt <i>Long-term stability of wide bandgap perovskite solar cells</i>	Miloš Ljubotina, Marcus Albrechtsen, Zhe Liu, Leonardo Midolo, Andraž Debevc, Marko Topič, Janez Krč <i>Propagation Losses in Suspended GaAs Waveguides Caused by Scattering at Nanoscale Imperfections</i>
14:00 - 14:15		Arslan Ali, Marko Jošt, Marko Topič, Marko Jankovec <i>Water Ingress in Encapsulated Perovskite Solar Cells</i>	Matej Poljanšek, Andraž Debevc, Miloš Ljubotina, Merisha Fernando, Marko Topič, Janez Krč <i>Determination of Effective Refractive Index and Group Index of Waveguides in Photonic Integrated Circuits</i>
14:15 - 14:30	Ciprian Iliescu, Ana-Maria Zamfiresu, Florina S. Iliescu, Gratiela Pircalabioru- Gradisteanu <i>Sample Concentration in Paper-based Microfluidic Devices</i>	Žan Ajdič, Marko Topič, Marko Jošt <i>Effect of Bromide content on the long-term stability of FAcS perovskite solar cells</i>	Merisha Fernando, Andraž Debevc, Miloš Ljubotina, Marko Topič, Janez Krč <i>Design Of Integrated Passive Photonic Devices Based On Perovskite Material</i>
14:30 - 14:45	Florina Silvia Iliescu, Georgeta Luminița Gheorghiu, Amarachi Rosemary Osi <i>Biocompatible Microneedles Patch For Antinflammatory Transdermal Drug Delivery</i>	Žiga Miklič, Marko Topič <i>Mitigating Edge Soiling in Low-Tilted Photovoltaic Modules Using Passive Drainage Clips and Active Monitoring</i>	Closing of the conference
14:45 - 15:00	Aljaž Zadavec, Borut Pečar, Danilo Vrtačnik, Matej Možek <i>Micro Thermocycler for RNA Amplification in Quantitative Polymerase Chain Reaction System</i>	Jonas Aleksander Oražem, Marko Topič, Marko Jankovec <i>Dynamic Modelling of High-Efficiency solar cells</i>	
15:00 - 15:15	Coffee break	Jaša Vid Meh Peer, Marko Topič, Marko Jankovec <i>Bidirectional Switch Mode Power Converter for Vehicle Integrated Photovoltaic Applications</i>	
15:15 - 15:30		Sašo Domađenik, Marko Jankovec, Marko Topič <i>Synchronization and Time Drift Mitigation in Bluetooth Low Energy Sensors</i>	
15:30 - 15:45	Student section, 10 min per presenter: 1. Petra Leskovec, Jakob Jaš, Tomaž Jeromen, Bor Kokovnik, Luka Pogačnik <i>Development and Construction of a Magnetron Sputtering System</i> 2. Jurij Bregar, Matic Jakšič, Erik Žnider, Aleksandar Savković, Luka Pogačnik <i>Design and Construction of a Rocket Engine Performance Measurement System</i> 3. Luka Dobnikar <i>Development of an Ultrasonic Phased Array Sonar Using an ESP32 and HC-SR04 Sensors</i> 4. Ana Ločnikar Jarc, mentor Aleš Volčini <i>A home-made radio telescope</i> 5. Jadran Dirnbek, mentor: Aleš Volčini <i>Behind the Scenes: Animating the Music Video "Hin" by Mi2</i> 6. Amadej Arh, Jakob Puc, mentor: Aleš Volčini <i>Re-visiting the Iskra EMZ-1001 with a virtual machine and a compiler for assembly language</i> 7. Izak Virant, mentor Aleš Volčini <i>Functional Characteristics of a Homebuilt Solar Energy Storage System</i>	Coffee break	
15:45 - 16:00		Aadil Abass Shah, Meryem Lachhab, Barbara Malič, Elena Buixaderas, Mojca Otoničar <i>Tuning phase stability and relaxor behaviour in NaNbO₃ ceramics via site-selective dopant engineering</i>	
16:00 - 16:15		Nejc Suban, Hana Uršič <i>Investigation of the ceramic powders using piezoresponsive force microscopy</i>	
16:15 - 16:30		Anjana Baby, Laura Martinčič Neelakandan M Santhosh, Uroš Cvelbar <i>PLASMA-INDUCED SURFACE TAILORING OF Ti₂C MXENE FOR ADVANCED SUPERCAPACITORS</i>	
16:30 - 16:45		Laura Martinčič, Anjana Baby, Neelakandan M Santhosh, Uroš Cvelbar, Aleksander Zidanšek <i>PLASMA-ASSISTED SURFACE MODIFICATION OF Ti₂C MXENE FOR HIGH-PERFORMANCE SUPERCAPACITORS</i>	
16:45 - 17:00			
17:00 - 17:15	Poster session	Nana Brguljan, Jošt Oblak, Nik Gračanin, Slavko Bernik, Marjeta Maček Kržmanc, Matejka Podlogar <i>Optimization of ceramic slurry for 3D-printing of ZnO structures</i>	
17:15 - 17:30		Filip Kos Maligoj, Miran Mozetič, Gregor Primc, Janez Kovač, Dane Lojen, Rok Zaplotnik <i>Hydrogen-Induced Etching of Tin Films via Stannane Formation in Plasma Afterglow</i>	
17:30 - 17:45		Izabela Čurković, Brigita Kmet, Ana Vaneč, Liza Ivanjica, Strnad, Danjela Kuscer <i>Indium zinc oxide thin films by inkjet printing for transparent electronics</i>	
17:45 - 18:00			
18:00 - ...			
18:00 - ...	Celebration of the 60 th Edition	20:00 Dinner	
	Welcome party		

Legend:	
TTF	Students
TTF + MTD	OPTO
SMEMS	CHIP