



47th International Microelectronics and Packaging
IMAPS Poland Conference,
20-23 September 2026, Bukowina Tatrzańska, Poland



Conference programme

Sunday, 20 September 2026	
16:00 – 21:00	Conference registration
18:30	Dinner
19:30	IMAPS Poland Board Meeting

Monday, 21 September 2026	
7:30 – 9:30	Breakfast
9:30 – 9:40	Conference Opening – Piotr Markowski
9:40 – 10:00	Opening Presentation Anna Szerling <i>Łukasiewicz – Institute of Microelectronics and Photonics: 60 Years of Innovation, Science, and Technology</i>
	Oral session I – Chairmen: Agata Skwarek-Illés, Piotr Markowski
10:00 – 10:30	Patrycja Suchorska-Woźniak , Bartosz Nowak, Csaba Farkas, Afrodyta Daskalakis, Anastazja Sofińska, Wojciech Wiśniewski <i>Gas sensor based on biodegradable components</i>
10:30 – 11:00	Jarosław Domaradzki , Kacper Adamiak, Magdalena Milek, Sindy Fuhrmann, Damian Wojcieszak, Michał Mazur, Diego Pozo-Ayuso, Sebastian Müller <i>Effect of enamel fusing temperature on copper-to-glass adhesion</i>
11:00 – 11:30	Coffee break
	Oral session II – Chairmen: Jarosław Domaradzki, Wojciech Filipowski
11:30 – 12:00	Bartosz Kamecki , Katarzyna Ostrowska, Piotr Jasiński, Sebastian Molin <i>Evaluating OER Catalyst Degradation in Alkaline Seawater Electrolysis Using a Zero-Gap Cell Configuration</i>
12:00 – 12:30	Krzysztof Czyż , Krzysztof Rola, Łukasz Duda, Paweł Karasiński, Małgorzata Guzik, Joanna Cybińska <i>Low-Loss Sol-Gel SiO₂-TiO₂ Rib Waveguides Fabricated by Photolithography and ICP-RIE</i>
	Industry and Exhibitor Session – Chairman: Beata Synkiewicz-Musialska
12:30 – 12:40	XTPL - Aleksandra Chudzyńska , Nina Szczotka, Aleksandra Motyka, Mateusz Łysień, Piotr Kołodziej, Magdalena Stępień, Łukasz Witczak, Sławomir Drozdek, Aneta Wiatrowska <i>Ultra precise Dispensing for Next Generation PCB and Display Repair</i>
12:40 – 12:50	Miflex – Grzegorz Wieczorek <i>Advancing European Electronics through Innovation, Strategic Partnerships and Manufacturing</i>
12:50 – 13:00	Haiku Tech Europe - Yavuz Selim Ayhan <i>Multilayer Ceramic Manufacturing: Complete Solution</i>
13:00 – 14:00	Lunch
14:00 – 15:30	Poster Session I – Chairmen: Krzysztof Górecki, Andrzej Dziedzic
15:30 – 16:00	Coffee break
16:00 – 17:30	Poster Session II – Chairmen: Marcin Słoma, Mariusz Węglarski
18:30	Grill

Tuesday, 22 September 2026	
7:30 – 9:30	Breakfast
	Oral session III – Young Researchers – Chairmen: Piotr Firek, Karol Malecha
9:30 – 9:50	Nikita Bailiuk , Piotr Jankowski-Michułowicz, Mariusz Węglarski <i>A comparative study of traditional and inductively coupled UHF RFID transponders across diverse 3D-printed polymers</i>
9:50 – 10:10	Wojciech Wiśniewski , Afrodyta Daskalakis, Andrzej Dziedzic, Patrycja Suchorska-Woźniak <i>The Effect of UV Irradiation and Temperature on VOC Detection Using β-Ga₂O₃ NWs</i>
10:10 – 10:30	Afrodyta Daskalakis , Anastazja Sofińska, Wojciech Wiśniewski, Bartosz Nowak, Anna Solipiwo-Pieścik, Małgorzata Kabsch, Ryszard Korbutowicz, Patrycja Suchorska-Woźniak <i>Influence of Substrates on the Photocatalytic Performance of Gallium Oxide Thin Films</i>
10:30 – 10:50	Gabriela Małyszko , Katarzyna Ostrowska, Bartłomiej Lemieszek, Julia Urbanek, Piotr Jasiński, Sylwia Pawłowska <i>Porosity-Tuned NiFe-LDH/MWCNT Conductive Hydrogel Electrodes with Enhanced Charge Transport and Electrolyte Accessibility for the Oxygen Evolution Reaction</i>
10:50 – 11:20	Coffee break
11:20 – 13:00	Poster Session III – Chairmen: Przemysław Ptak, Jarosław Kita
13:00 – 14:00	Lunch
14:00 – 18:00	Social programme
18:00	IMAPS Poland General Meeting
19:30	Gala dinner

Wednesday, 23 September 2026	
7:30 – 9:30	Breakfast
	Oral session IV – Chairmen: Barbara Swatowska, Dariusz Klepacki
9:30 – 10:00	Kamil Kaszyca , Marcin Myśliwiec, Strycharz Kamila, Michał Borysiewicz, Rafał Zybała <i>Parametric Open-Source Photolithography Mask Design with Python</i>
10:00 – 10:30	Balázs Illés , András Hegyessy, Agata Skwarek-Illés <i>Quality and reliability of SnBiAg-xTiO₂ composite solder joints</i>
10:30 – 11:00	Oliver Krammer , Balázs Illés, Áron Kerti, Attila Géczy <i>Investigating the Strength of Solder Joints Prepared on Biodegradable Printed Circuit Board Using SnBiAg Solder</i>
11:00 – 11:30	Mirosław Gierczak , Krzysztof Stojek, Andrzej Dziedzic <i>Thermal Characterization of Thermoelectric Structures and Thermal Interface Materials: From Material Conductivity to Interface Resistance</i>
11:30 – 12:00	Kiranmai Uppuluri <i>Screen-printed pH electrodes on wood and PLA substrate</i>
12:00	Farewell, End of Conference - Agata Skwarek-Illés
13:00 – 14:00	Lunch

Poster session I Monday, 21 September 2026, 14:00 – 15:30

1.	Andrzej Akseńczuk , Jerzy Dora, Jarosław Domaradzki, Michał Mazur, Damian Wojcieszak <i>Active Phosphate-Glycol Soldering Flux for Low-Thermal-Load Soldering of Passivated Electronic and Energy Components</i>
2.	Marcin Myśliwiec, Ryszard Kisiel <i>Thermal Interface Material based on Ag sintering technology for high Temperature applications (up to 450°C)</i>
3.	Marcin Myśliwiec , Natalia A. Łyszcz, Aleksander Małkowski, Ryszard Kisiel <i>Experimental Structures for Assessment of Solder Jetting Technology in Flip-Chip Packaging</i>
4.	Aneta Chołaj , Marek Kościelski, Wojciech Stęplewski, Andrzej Kiernich <i>Aging effects on the quality of solder joints in Bi-based and SAC soldering pastes on 3D-shaped aluminum cores</i>
5.	Andrzej Kiernich , Aneta Chołaj, Jan Oklej, Dorota Liszewska, Anna Sitek, Krzysztof Lipiec <i>Experimental Investigation of Via Filling Quality in VIPPO Structures for High-Density PCB Applications</i>
6.	Marek Guziewicz , Hubert Radecki, Wojciech Hendzelek, Marcin Myśliwiec, Janusz Woźny, Jacek Podgórski, Andrzej Kubiak, Marcin Janicki <i>Design Concept of 4H-SiC Schottky Barrier Diodes Toward 4 kV Blocking Capability</i>
7.	Ming-Yi Tsai , C. T. Chang, W. Y. Chen, T. Onishi <i>To Determine Biaxial Bending Strengths of TGV Glass Substrates in the Ring-on-Ring Test</i>
8.	Krzysztof Górecki , Agata Skwarek-Illés, Przemysław Ptak <i>Influence of the MCPCB substrate material on the thermal and optical parameters of power LEDs</i>
9.	Przemysław Ptak , Agata Skwarek-Illés, Krzysztof Górecki <i>Influence of SiC Addition to Solder Alloys on the Thermal and Optical Performance of Power LEDs</i>
10.	Damian Wojcieszak , Magdalena Milek, Sindy Fuhrmann, Paulina Kapuścik, Kacper Adamiak, Michał Mazur, Jarosław Domaradzki <i>Influence of the surface roughness on wetting and adhesion of enamel primer for metal-to-glass joints</i>
11.	Tomasz Bieniek , Grzegorz Janczyk, Piotr Prokaryn, Dobrowolski Rafał, Helena Kłos, Grzegorz Głuszko, Daniel Tomaszewski <i>Design of Test Structures for Signal Integrity Characterization of Advanced 3D Heterogeneous Integration Interposers</i>
12.	Tomasz Bieniek , Grzegorz Janczyk, Dariusz Szmigiel, Krzysztof Domański, Helena Kłos, Magdalena Ekwińska, Daniel Tomaszewski <i>European ECOSystem for green Electronics (EECONE) - European Flagship Initiative Advancing Sustainable Electronics through the 6R Strategy</i>
13.	Anna Baraniecka, Rafał Dobrowolski, Magdalena Kucharska, Zofia Markiewicz, Andrzej Panas, Piotr Prokaryn, Andrzej Sierakowski, Paweł Janus <i>Wafer-level Post-Fabrication Sharpening of Silicon AFM Tips on Completed Microcantilevers</i>
14.	Dorota Szwagierczak, Piotr Kapusta , Karolina Kwiecień, Beata Synkiewicz-Musialska, Marzena Olszewska-Placha, Jobin Varghese <i>Impact of Processing Parameters on Feasibility of Microwave Antenna Using ULTCC Technology</i>
15.	Karol Malecha <i>LTCC-Based Microreactor for Carbonylation Reaction – Preliminary Results</i>

Poster session II Monday, 21 September 2026, 16:00 – 17:30

1.	Kacper Skrobacz , Piotr Jankowski-Mihułowicz, Mariusz Węglarski <i>RFID Chip Sensitivity Measurement Station</i>
2.	Michał Oleksyk , Piotr Jankowski-Mihułowicz, Mariusz Węglarski <i>Fabrication and Characterization of a Structure Produced Using a Laser Induced Graphene Method for RFID Applications</i>
3.	Anna Ziobro , Piotr Jankowski-Mihułowicz, Mariusz Węglarski <i>Enhancement of the Read Range of Textronic UHF RFID Transponders</i>
4.	Mariusz Węglarski , Piotr Jankowski-Mihułowicz, Katarzyna Stańczyk-Firmuga, Magdalena Nizioł <i>The Influence of Washing Processes on RFIDtex Antenna Properties</i>
5.	Zuzanna Pamuła , Bartłomiej Podsiadły, Katarzyna Daszykowska, Marcin Słoma <i>Tuning the Performance of 3D-Printed Energy Harvesters via Controlled Porosity and Infill Topology</i>
6.	Zofia Wiacek , Marcin Słoma <i>Electromechanical Characterization of 3D-Printed TPU CNT Structures for Triboelectric Energy Harvesting</i>
7.	Kacper Skarżyński , Bartłomiej Podsiadły, Marcin Słoma <i>3D-Printed Patch Antenna for Energy Harvesting</i>
8.	Kazimierz Kamuda, Dariusz Klepacki , Wiesław Sabat, Kazimierz Kuryło, Mariusz Skoczylas <i>Conditioning of Electromagnetic Field Energy in a Harvester System with a Supercapacitor as the Main Energy Storage Device</i>
9.	Mirosław Gierczak , Kacper Sosnowski <i>Modular Wind Tunnel Platform for Dynamic Characterization of Electromagnetic Microgenerators</i>
10.	Lidia Jędrzejewska , Olga Rac-Rumijowska <i>Flexible Pressure Sensor Printed on Textiles for Use in Foot Ulcer Prevention System</i>
11.	Piotr Markowski , Bartłomiej Trzop <i>Thermoelectric Energy Generator Fabricated in Thick-Film/LTCC Technology</i>
12.	Szymon Wójcik , Piotr Markowski, Patryk Pyt, Andrzej Dziedzic <i>Planar Thick-Film CuNi-Cu Thermoelectric Microgenerator for RFID Applications</i>
13.	Grzegorz Janczyk , Tomasz Bieniek, Paweł Pieńczuk, Adam Jarosz, Jakub Żelech, Antoni Dziedzic <i>Development of Photoplethysmography Based Wearable Unit for Sport and Medical Care Applications</i>
14.	Grzegorz Janczyk , Tomasz Bieniek, Paweł Pieńczuk, Adam Jarosz, Jakub Żelech, Antoni Dziedzic, Helena Kłos, Dariusz Szmigiel <i>Development of the Application Specific ROIC for SpO₂ Signal Acquisition in Wearable Devices</i>

Poster session III Tuesday, 22 September 2026, 11:20 – 13:00

1.	Izabela Lewandowska , Karolina Cysewska <i>Electrochemically Controlled Dexamethasone Release from PEDOT Based Thin Films for Bioelectrode Applications</i>
2.	Natalia Zalewska, Izabela Lewandowska , Karolina Cysewska <i>Balancing Adhesion and Conductivity in Ultrathin PEDOT:PSS Composite Films on PDMS for Soft and Flexible Bioelectronics</i>
3.	Paweł Chodasewicz , Michał Mazur, Milena Kiliszkiewicz, Artur Wiatrowski, Ewa Mańkowska, Jarosław Domaradzki <i>Investigation of Work Function of Bulk Gold Using UPS and KPFM Techniques</i>
4.	Milena Kiliszkiewicz , Witold Posadowski, Jarosław Domaradzki <i>Magnetron Co-Sputtered AZO-CuOx Multilayer Structures: Optical, Thermoelectric and Morphological Properties</i>
5.	Piotr Firek , Witold Szymański, Mariusz Dudek <i>Electrical and Mechanical Properties of HfOxNy Thin Films Deposited by Reactive Magnetron Sputtering</i>
6.	Weronika Arendarska , Natalia Beshchasna, Ivan Lopez, Anton Fica, Anja Hofmann, Julia Krzekotowska, Piotr Jasiński, Karolina Cysewska <i>Engineering Conductive Polymer Coatings on Metallic Stents for Advanced Cardiovascular Applications</i>
7.	Mateusz Węglewski , Katarzyna Płacheta, Marta Radecka, Katarzyna Zakrzewska <i>Upconversion Luminescence in Er³⁺/Yb³⁺:TiO₂ Thin Films for Optical Security Applications</i>
8.	Jakub Zięba , Katarzyna Płacheta, Marta Radecka, Katarzyna Zakrzewska <i>Soft X-ray Absorption Spectra of TiO_{2-x} Thin Films for Green Hydrogen Generation</i>
9.	Jarosław Kita , Ralf Moos, and Gunter Hagen <i>A Novel Hydrogen Sensor for High-Temperature Environments Developed in Thick-Film Technology</i>
10.	Katarzyna Ostrowska , Kacper Mróz, Piotr Jasiński, Sebastian Molin <i>Development of Spray-Coated NiFe-LDH Electrodes for Efficient and Scalable Hydrogen Evolution</i>
11.	Karolina Kwiecień , Wojciech Guziewicz, Dominik Wojcieszczak, Tadeusz Uhl, Beata Synkiewicz-Musialska, Shreyas Srivatsa <i>Thick Film MXene Resistive Heaters for Harsh Environments</i>
12.	Krzysztof Szostak <i>Development and Optimization of Ceramic Slurries for YSZ Solid Electrolytes Used in SOFCs</i>
13.	Justyna Ignaczak , Piotr Jasiński, Sebastian Molin <i>Advanced Electrophoretic Deposition of Tailored Protective Coatings for SOFC Interconnects</i>
14.	Mateusz Kocoń, Barbara Swatowska <i>Analysis of the Influence of Mechanical and Environmental Damage on Electrical Parameters of Photovoltaic Mini-Modules</i>
15.	Urszula Wawrzaszek , Jarosław Domaradzki <i>Investigation of Electrical Performance of Gel Electrolyte for Electrochromic Applications</i>
16.	Magdalena Gębicka, Angelika Fedor , Stanisław Karcz, Dominik Grochala, Artur Rydosz <i>Preliminary studies on the biofunctionalization of chips fabricated using the GLAD/TWD method</i>