

<b>19.04 Monday</b>	
9 <sup>00</sup> -9 <sup>20</sup>	Opening ceremony
Session 1 – Invited talks (chairman: Agata Skwarek)	
9 <sup>20</sup> -9 <sup>50</sup>	<u>Michael Schiffer</u> - Heterogeneous Integration - an Enabler for Future Packaging Concepts
9 <sup>50</sup> -10 <sup>20</sup>	<u>Golta Khatibi</u> - Reliability and lifetime assessment in power electronics
Session 2 - Oral presentations (chairman: Piotr Jasiński)	
10 <sup>20</sup> -10 <sup>40</sup>	Anna Kot, Marta Radecka, Dominik Dorosz, <u>Katarzyna Zakrzewska</u> - Optoelectronic applications of up-converting TiO <sub>2</sub> :Er thin films
10 <sup>40</sup> -11 <sup>00</sup>	Damian Wojcieszak, Agata Obstarczyk, <u>Ewa Mańkowska</u> , Michał Mazur, Danuta Kaczmarek, Katarzyna Zakrzewska, Piotr Mazur- Effect of post-process annealing on the properties of p-type copper oxide thin films
11 <sup>00</sup> -11 <sup>20</sup>	<u>Anita Trenczek-Zajac</u> , Joanna Banaś-Gac, Marta Radecka- TiO <sub>2</sub> @Cu <sub>2</sub> O heterostructures for photoelectrochemical and photoelectrocatalytic applications
11 <sup>20</sup> -11 <sup>40</sup>	Coffee break
Session 3 – Oral presentations (chairman: Balázs Illés)	
11 <sup>40</sup> -12 <sup>00</sup>	<u>Przemysław Ptak</u> , Agata Skwarek, Krzysztof Górecki, Krzysztof Witek- The influence of SACX0307-ZnO nano-composite solder alloys on the optical and thermal properties of power LEDs
12 <sup>00</sup> -12 <sup>20</sup>	<u>Dániel Straubinger</u> , Attila Tóth, Viktor Kerek, András Szabó, Attila Géczy - Investigating solder beading phenomenon under surface-mounted electrolytic capacitors
12 <sup>20</sup> -13 <sup>20</sup>	Lunch break
Session 4 – Poster presentations (chairman: Agata Skwarek)	
13 <sup>20</sup> -16 <sup>10</sup>	(18 pcs 5-7-minutes presentations)
	<ol style="list-style-type: none"> <li>1. <u>Wojciech Filipowski</u>, Zbigniew Pruszowski, Natalia Waczyńska-Niemiec, Piotr Kowalik, Andrzej Czerwiński, Mariusz Płuska, Krzysztof Waczynski - The impact of chemical composition and morphology of resistive layer on electrical parameters of resistors based on amorphous Ni-Cu-P alloy obtained by electroless metallization</li> <li>2. <u>Kalina Detka</u>, Krzysztof Górecki - Influence of the magnetic core size and material on thermal properties of the inductor</li> <li>3. <u>Balázs Illés</u>, Richárd Szilágyi, Bálint Medgyes, Attila Géczy - Numerical Simulation of Electrochemical Migration of Ag in Contaminant-free Electrolyte</li> <li>4. <u>Krzysztof Posobkiewicz</u>, Krzysztof Górecki- The influence of selected factors on parameters of a cooling system with the Peltier module and forced air flow</li> <li>5. Krzysztof Górecki, Przemysław Ptak, <u>Barbara Dziurdzia</u>- The influence of the used soldering paste on optical and thermal parameters of LED modules</li> <li>6. <u>Sylwia Ilona Baluta</u>, Anna Lesiak, Kamila Spychalska, Joanna Cabaj, Karol Malecha - Carbon dots-based electrochemical biosensor for norepinephrine determination</li> <li>7. <u>Kinga Halicka</u>, Anna Lesiak, Joanna Cabaj, Karol Malecha - Optical Sensors Based on Nanomaterials</li> <li>8. <u>Tomasz Matusiak</u>, Arkadiusz Dąbrowski, Leszek Golonka - Sensitivity of light detector in optical sensor utilizing microplasma – hardware and software assumptions</li> </ol>

	<p>9. <u>Grzegorz Tomaszewski</u>, Piotr Jankowski-Mihułowicz, Jerzy Potencki, Alena Pietrikova, Peter Lukacs - Inkjet-Printed HF Antenna Made on PET Substrate</p> <p>10. <u>Camilla Kärnfelt</u>, Nicolas Ryon - Screen Printing on Low Temperature Cofired Ceramics</p> <p>11. <u>Marcin Słoma</u>, Liubomir Bezgan, Kamil Wawrzycki, Bartomiej Podsiadły - Fused deposition of metals for 3D printed electronic circuits</p> <p>12. <u>Marcin Słoma</u>, Michał Wierzbicki, Andrzej Skalski - Composite powders with carbon nanotubes for laser printing of electronics</p> <p>13. <u>Bartłomiej Wałpuski</u>, Marcin Słoma - Accelerated testing and reliability of FDM based structural electronics</p> <p>14. <u>Dagmara Michoń</u>, Marta Radecka, Andrzej Brudnik, Joanna Banaś-Gac, Katarzyna Zakrzewska - Light activated sorption of gases on thin films</p> <p>15. <u>Marta Dmistrz</u>, Paweł Kalinowski, Piotr Jasiński, Grzegorz Jasiński - Gas mixtures recognition using an array of amperometric gas sensors with drifting or faulty sensors</p> <p>16. <u>Paweł Kalinowski</u>, Grzegorz Jasinski, Piotr Jasinski - Maintaining of the gas concentration prediction possibility with an array of semiconductor gas sensors in case of sensors' failure</p> <p>17. <u>Barbara Swatowska</u>, Mateusz Wlazło, Zbigniew Starowicz, Piotr Pane, Robert Socha - Antireflective-passivation coatings Al<sub>2</sub>O<sub>3</sub>+TiO<sub>2</sub> and their properties</p> <p>18. <u>Zazilah May</u>, Noor A'in A.Rahma, Alam M.D Khorshed<sup>1</sup> - Hydrogen Evolution Monitoring on Carbon Steel Pipe Based on Acoustic Emission Signal</p>
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<b>20.04 Tuesday</b>	
Session 5 – Invited talks (chairman: Piotr Jasiński)	
9 <sup>00</sup> -9 <sup>30</sup>	<u>Knut Eilif Aasmundtveit</u> - Solid-Liquid Interdiffusion (SLID) bonding; for thermal challenges in microsystem bonding
9 <sup>30</sup> -10 <sup>00</sup>	<u>Kostja Makarovič</u> - LTCC technology in Slovenia: An overview from materials to 3D devices
Session 6 - Oral presentations (chairman: Jarosław Domaradzki)	
10 <sup>00</sup> -10 <sup>20</sup>	<u>Agnieszka Drewniak</u> , Karolina Górnicka, Hassan Javed Federico Smeacetto, Piotr Jasiński, Sebastian Molin - Accelerated reactivity tests of glass-ceramic sealants and steel interconnects at high temperature
10 <sup>20</sup> -10 <sup>40</sup>	Arkadiusz Dąbrowski, Mateusz Czok, <u>Witold Nawrot</u> , Michał Babij, Piotr Bielówka, Szymon Gburek, Karol Malecha - LTCC Strip Electrode Arrays for Gas Electron Multiplier Detectors
10 <sup>40</sup> -11 <sup>00</sup>	<u>Dorota Szwagierczak</u> , Beata Synkiewicz-Musialska, Jan Kulawik, Norbert Pałka - Sintering, microstructure and dielectric properties of copper borates for high frequency LTCC applications
11 <sup>00</sup> -11 <sup>20</sup>	Coffee break
Session 7 – Oral presentations (chairman: Piotr Firek)	
11 <sup>20</sup> -11 <sup>40</sup>	<u>Paweł Górecki</u> - Influence of lowered atmospheric pressure on thermal parameters of semiconductor devices
11 <sup>40</sup> -12 <sup>00</sup>	<u>Wojciech Filipowski</u> - Model of boron diffusion in silicon used for solar cell fabrication based on boric acid solutions
12 <sup>00</sup> -13 <sup>00</sup>	Lunch break

Industrial session	
13 <sup>00</sup> -13 <sup>15</sup> – <u>Yann Jördens</u> - Hirox microscopes	
Session 8 – Poster presentations (chairman: Attila Géczy)	
13 <sup>15</sup> -16 <sup>00</sup>	(19 pcs 5-7-minutes presentations)
	<ol style="list-style-type: none"> <li>1. <u>Ewa Klimiec</u>, <u>Piotr Zachariasz</u>, Halina Kaczmarek, Bogusław Królikowski, Sławomir Mackiewicz - Elasticity investigation of thin polymer foils with a cellular structure for piezoelectric sensors</li> <li>2. Anna Paleczek, <u>Bartłomiej Szafraniak</u>, Łukasz Fuśnik, Dominik Grochala, Artur Rydosz - The heterostructures n-p/p-n based on CuO-p and SnO<sub>2</sub>-n for NO<sub>2</sub> detection</li> <li>3. <u>Beata Synkiewicz-Musialska</u>, Dorota Szwagierczak, Jan Kulawik, Elżbieta Czerwińska - Preparation and characterization of LiZn<sub>0.92</sub>Cu<sub>0.08</sub> PO<sub>4</sub> ceramic for microwave and millimeter wave substrates</li> <li>4. <u>Piotr Maćków</u>, Piotr Guzdek, Beata Synkiewicz-Musialska, Wojciech Grzesiak - Re-usage of electric car battery for applications in photovoltaic installations</li> <li>5. <u>Aleksy Patryn</u>, Mirosław Maliński, Leszek Bychto, Takhir Razykov, Bobur Ergashev, Koudrat Kouchkarov, Akbar Shukurov - Thin Films of CdS<sub>1-x</sub>Te<sub>x</sub> Obtained by CMBD Method - Optical and Photoelectric Properties</li> <li>6. <u>Piotr Markowski</u> - Thermoelectric sensor of the thermal radiation</li> <li>7. <u>Marek Gąsiorowski</u>, Piotr Szymak Aleksy Patryn - Mobile NIR DLP spectroscopy in monitoring a time-non-stable surfaces</li> <li>8. <u>Dariusz Klepacki</u>, Wiesław Sabat, Kazimierz Kuryło, Kazimierz Kamuda - Analysis of influence of power supply system configuration in LED lamps on generation process of conducted electromagnetic disturbances</li> <li>9. <u>Kinga Michalec</u>, Anna Kusior, Marta Radecka - Anisotropic structures based on tin oxides/sulphides for photoelectrochemical applications</li> <li>10. <u>Krzysztof Jakub Stojek</u>, Jan Felba, Damian Nowak, Karol Malecha, Szymon Kaczmarek, Patryk Andrzejak - Thermal and Mechanical Analysis of Low-Temperature and Low-Pressure Silver-Based Sintered Thermal Joints</li> <li>11. <u>Piotr Sobik</u>, Olgierd Jeremiasz, Paweł Nowak, Anna Sala, Grażyna Kulesza-Matlak, Kazimierz Drabczyk - Towards efficient luminescent solar energy concentrator using cuprorivaite infrared phosphor (CaCuSi<sub>4</sub>O<sub>10</sub>) - effect of dispersing method on photoluminescence intensity</li> <li>12. <u>Anna Kusior</u>, Paweł Nieroda - Thermoelectric properties of Cu<sub>2</sub>Se densified by SPS method</li> <li>13. <u>Piotr Nowak</u>, Katarzyna Zakrzewska, Anna Kusior, Agnieszka Łącz, Marta Radecka, Kazimierz Kowalski, Karol Kubat, Hubert Harańczyk - Proton Nuclear Magnetic Resonance investigation of water fractions adsorbed on TiO<sub>2</sub> nanopowders</li> <li>14. Piotr Sobik, Grażyna Kulesza-Matlak, <u>Kazimierz Drabczyk</u> - Flexible substrate based photovoltaic modules for acoustic screens</li> <li>15. <u>Barbara Dziurdzia</u> - Analysis of a planar double-sided anode supported SOFC with Comsol Multiphysics®</li> <li>16. <u>Paweł Nieroda</u>, Juliusz Leszczynski, Andrzej Koleżynski - Influence of the synthesis time on thermoelectric transport properties of Cu<sub>2</sub>Se densified by SPS method</li> <li>17. <u>Piotr Firek</u>, Piotr Wysockiński, Jan Szmidt- MIS FET Transistor with SiO<sub>2</sub>/HfO<sub>x</sub>N<sub>y</sub> Stack as a Gate Dielectric</li> </ol>

	<p>18. <u>Juliusz Leszczyński</u>, Paweł Nieroda, Andrzej Koleżyński- Studies on the solubility of group V elements in Cu<sub>2</sub>S in terms of modification of its thermoelectric properties</p> <p>19. <u>Bartłomiej Lemieszek</u>, Justyna Ignaczak, Bartosz Kamecki, Jakub Karczewski, Piotr Jasiński, Sebastian Molin- Electrolytic deposition of reactive element thin films on Crofer 22 APU</p>
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<b>21.04 Wednesday</b>	
Session 9 – Invited talks (chairman: Krzysztof Górecki)	
9 <sup>00</sup> -9 <sup>30</sup>	<u>Andrzej Dzedzic</u> , Mateusz Czok, Arkadiusz Dąbrowski, Mirosław Gierczak, Leszek Golonka, Karol Malecha, Piotr Markowski, Damian Nowak - Non-Standard Applications of Microelectronic Inductive Components
9 <sup>30</sup> -10 <sup>00</sup>	<u>Anna Kusior</u> - The materials with selected adsorption for electrochemical sensor
Session 10 - Oral presentations (chairman: Katarzyna Zakrzewska)	
10 <sup>00</sup> -10 <sup>20</sup>	<u>Kiranmai Uppuluri</u> , Dorota Szwagierczak- Fabrication and characterization of screen printed Ni-Mn spinel oxide based thermistors
10 <sup>20</sup> -10 <sup>40</sup>	<u>Noëlla Dolińska</u> , Patrycja Suchorska-Woźniak, Maciej Krawczyk, Helena Teterycz - Influence of hydrogen on carbon monoxide gas sensor
10 <sup>40</sup> -11 <sup>00</sup>	Patrycja Suchorska-Woźniak, <u>Maciej Krawczyk</u> , Olga Rac-Rumijowska, Ryszard Korbutowicz, Helena Teterycz - Volatile Organic Compounds Gas Sensor Based on SnO <sub>2</sub> Nanowires
11 <sup>00</sup> -11 <sup>20</sup>	Coffee break
Session 11 – Oral presentations (chairman: Andrzej Dzedzic)	
11 <sup>20</sup> -11 <sup>40</sup>	<u>Grzegorz Jasiński</u> - The effect of temperature on the electrochemical gas sensor response and its compensation
11 <sup>40</sup> -12 <sup>00</sup>	Witold Nawrot, <u>Jan Kostek</u> , Karol Malecha- Polymer stereolithography on ceramic substrates – microfluidic module in hybrid technology
12 <sup>00</sup> -13 <sup>00</sup>	Lunch break
Session 12 – Oral presentations (chairman: Dariusz Klepacki)	
13 <sup>00</sup> -13 <sup>20</sup>	Mohamed Amine Alaya, Egon Rozs, David Busek, Balázs Illés, <u>Attila Géczy</u> - Investigating the application of flow and gauge pressure sensors in industrial vapour phase soldering
13 <sup>20</sup> -13 <sup>40</sup>	<u>Marek Guziewicz</u> , Ernest Brzozowski, Ryszard Kisiel, Paweł Górecki, Krzysztof Górecki - An influence of the assembly method of the die to the case on the reliability of IGBTs
13 <sup>40</sup> -14 <sup>00</sup>	<u>Paweł Górecki</u> , Krzysztof Górecki, Marek Guziewicz, Ernest Brzozowski, Ryszard Kisiel- Thermal parameters of IGBTs assembled on TO220 frame by different methods
14 <sup>00</sup> -14 <sup>20</sup>	<u>Ryszard Kisiel</u> , Marcin Mysliwiec, Mirosław J. Kruszewski - Influence of Ag particle shape on thermal and mechanical properties of TIM joints
14 <sup>20</sup> -14 <sup>40</sup>	Coffee break
Session 13 – Oral presentations (chairman: Dorota Szwagierczak)	
14 <sup>40</sup> -15 <sup>00</sup>	Damian Wojcieszak, Michał Mazur, <u>Patrycja Pokora</u> , Adrian Wrona, Katarzyna Bilecka, Wojciech Kijaszek, Tomasz Kotwica, Jarosław Domaradzki- Properties of metallic and oxide thin films based on Ti and Co prepared by magnetron sputtering from sintered targets with different Co-content
15 <sup>00</sup> -15 <sup>20</sup>	<u>Amadeusz Popardowski</u> , Paweł Pasierb - Electrolyte influence on electrochemical performance of MnO <sub>2</sub> -based supercapacitors

15 <sup>20</sup> -15 <sup>40</sup>	<u>Julia Mazurków</u> , Anna Kusior, Marta Radecka - Electrochemical activity of metal sulfides (CuS, NiS, and FeS <sub>2</sub> ) towards various exo- and endogenous molecules
15 <sup>40</sup> -16 <sup>00</sup>	Michał Mazur, Damian Wojcieszak, Artur Wiatrowski, Danuta Kaczmarek, <u>Aneta Lubańska</u> , Jarosław Domaradzki - Analysis of the optoelectronic properties of amorphous tungsten oxide thin films deposited by magnetron sputtering for application in transparent electronics
16 <sup>00</sup>	Closing ceremony