

Session	ID	Author	Title	Estim. time
1st Plenary Session 19.09.2005 9 ⁰⁰ -11 ⁰⁰	Conference opening			30min
	P.1.1	Shen-Li Fu	<i>Influences of additives on the electrical properties of lead-free thick film resistors</i>	25min+5min
	P.1.2	Aicha Elshabini	<i>High density interconnects and micro vias in multilayer LTCC substrates</i>	25min+5min
	P.1.3	Jerzy Bodzenta	<i>Investigation of thermal properties of pure and doped LiNbO3 single crystals by thermal wave methods</i>	25min+5min
2nd Plenary Session 19.09.2005 14 ⁰⁰ -15 ³⁰	P.2.1	Bruce Romanesco	<i>Strength of non-optimum wire bonds - Reliability implications</i>	25min+5min
	P.2.2	Malgorzata Kramkowska	<i>New opportunities in wet chemical etching for mems and moems applications</i>	25min+5min
	P.2.3	Walter Smetana	<i>Research activities of the Thick-Film and Ceramic-Microstructure-Packaging Laboratory at ISAS of Vienna University of Technology</i>	25min+5min
3rd Plenary Session 20.09.2005 9 ⁰⁰ -11 ⁰⁰	P.3.1	Zsolt Illyefalvi-Vitéz	<i>What to do for the transition to Pb-free soldering</i>	25min+5min
	P.3.2	Jürgen Uhlemann	<i>Evaluation of cytotoxicity of chip-on-board-materials</i>	25min+5min
	P.3.3	Thomas Maeder	<i>Design and characterisation of low-cost thick-film piezoresistive force sensors for the 100 mN to 100 N range</i>	25min+5min
4th Plenary Session 20.09.2005 14 ⁰⁰ -15 ⁰⁰	P.4.1	Andrzej Napieralski	<i>Application of multilayer piezoelectric elements for resonant cavity deformation in VUV-FEL DESY accelerator</i>	25min+5min
	P.4.2	Mirosław Maliński	<i>Applications of thermoacoustic techniques for thermal, optical and mechanical characterization of materials, structures and devices</i>	25min+5min
5th Plenary Session 21.09.2005 9 ⁰⁰ -11 ³⁰	P.5.1	Katsumasa Suyama	<i>Solder joint reliability of tin-zinc-bismuth lead-free solder under environmental stress</i>	15min+5min
	P.5.2	Franz Bechtold	<i>Getting the future accessible: The PIDEA+ Eureka Cluster programme (E! 3270) Packaging and Interconnection Development for European Applications</i>	15min+5min
	P.5.3	Coskina Paradiso	<i>Micro- and nanotechnologies and production in Europe - multinationally co-ordinated support through MNT ERA NET</i>	15min+5min
	P.5.4	Piotr Dumania	<i>Networking - strengthening of competencies of MNT research and development potential through organised activities</i>	15min+5min
	P.5.5	Markku Lämsä	<i>Tekes, the National Technology Agency in Finland supports national and international networking and researcher mobility</i>	15min+5min
	Conference closing			30min

Poster sessions programme

Day / Session	ID	Author(s) / Title
19.09.2005 1 st Poster Session 11 ³⁰ -13 ⁰⁰	P.1.1	Analysis of Technological Factors Influencing on Pb-Free Solder Joints Quality Krzysztof Witek, Agata Skwarek, Wojciech Grzesiak, Wiesław Zaraska
	P.1.2	Solder Joint Reliability of Tin-Zinc-Bismuth Lead-free Solder under Environmental Stress Yuichi Aoki, Yasutoshi Nakagawa, Keiko Toi, Hirokazu Tanaka, Katsumasa Suyama
	P.1.3	Lead-free Solder Joints in Thick Film Hybrid Circuits Małgorzata Jakubowska, Jerzy Kalenik, Elżbieta Zwierkowska, Ryszard Kisiel, Anna Młozniak, Konrad Kiełbasiński
	P.1.4	Experiment of Influence Curing Pressure of Anisotropically Conductive Adhesives on Parameters of Joints Aleš Duraj, Pavel Mach
	P.1.5	Mechanical Strength And Electrical Resistance Tests Of Adhesives And Adhesive Joints In Low Temperatures Andrzej Bochenek, Barbara Bober, Bronisława Olszewska-Mateja, Zbigniew Żaluk
	P.1.6	Measuring Gradient Of Temperature Based On Peltier Module Krzysztof Boroń, Piotr Bratek, Andrzej Kos
	P.1.7	Temperature Time Responses of Thermoelectric Modules Piotr Bratek, Krzysztof Boroń, Andrzej Kos
	P.1.8	Simulation Of Solid State Ionic Conductors I-V Characteristics Grzegorz Jasiński, Piotr Jasiński, Antoni Nowakowski
	P.1.9	Simulations Of Cross Sections Of The Structures Fabricated On Si (Hkl) Substrates By Anisotropic Etching Irena Zubel, Małgorzata Kramkowska
	P.1.10	Studies Of The Island Structure Of SnO₂ Thin Films Grown With The RGTO Technique. Krzysztof Waczyński, Jerzy Uljanow, Weronika Izydorczyk, Dominik Jasiok
	P.1.11	Anisotropic Conductive Films for Flexible Circuit Assembly Application Zbigniew Szczepański, Paweł Mirowski, Jerzy Kalenik
	P.1.12	Accelerated Whisker Growth. Identification of Significant Factors for Design of Experiment Przemysław Matkowski, Michał Sakowicz, Artur Wymysłowski, Jan Felba, Andrzej Ambroziak
	P.1.13	Technological Aspects Of Applying Adhesives In Small Diameter Vias R. Kisiel, A. Mościcki, J. Felba, J. Borecki
	P.1.14	Adaptation Of Wave Soldering Machine For Lead-Free Soldering Process Janusz Sitek
	P.1.15	Thermal Transducer With Variable Heater Width Jakub Brzeziński, Tadeusz Berlicki, Eugeniusz Prociów
	P.1.16	A Feasibility Study for a Thick-film PZT Bending-Mode Actuator Marina Santo-Zarnik, Darko Belavič

Poster sessions programme

Day / Session	ID	Author(s) / Title
19.09.2005 1 st Poster Session 11 ³⁰ -13 ⁰⁰	P.1.17	Measurements Of Fast Thermal Transients In Microwave Transistors Jarosław Kraśniewski, Maciej Oleksy, Włodzimierz Janke
	P.1.18	EQ Term - Temperature Field Simulator of Thick-Film Microcircuits Grzegorz Błąd, Włodzimierz Kalita, Dariusz Klepacki, Jerzy Potencki
	P.1.19	A Digital Commutated Chaos Oscillator Lech Tomawski, Zenon Kukuła
	P.1.20	The Chosen Problems Of Control In Sun Tacking Photovoltaics Systems Jerzy Chojnacki, Janusz Teneta
	P.1.21	The Automatical Computation and Evaluation of the Solar Cell Parameters Tomas Duris, Maciej Pitucha, Andrzej Kołodziej, Paweł Krewniak, Vladimir Saly
19.09.2005 2 nd Poster Session 15 ³⁰ -16 ⁴⁵	P.2.1	The Investigation Of High-Temperature Converter By Impedance Spectroscopy Grazyna Beensh-Marchwicka, Karol Nitsch
	P.2.2	Implementation of MPPT Algorithms in Microprocessor Solar Charge Regulators Wojciech Grzesiak
	P.2.3	Data Acquisition System for Long-Term Measurements in Photovoltaic Arrays Wojciech Grzesiak, Michał Cież, Tomasz Maj, Jerzy Chojnacki, Janusz Tenta
	P.2.4	Synthesis And Resistance-Temperature Characteristics Of Perovskite Ceramics For NTC Thermistors Agata Skwarek, Dorota Szwagierczak, Jan Kulawik, Barbara Gröger
	P.2.5	The Influence Of Supply Voltage Parameters On Ageing Process Of Thick-Film Electroluminescent Light Sources Wiesław Prochwicz, Michał Cież, A. Marek Łukasik, Zbigniew Porada
	P.2.6	Influence of Conformal Coatings on High Frequency Electronic Circuits Subjected to Increased Humidity Tests Krzysztof Witek, Agata Skwarek, W. Zaraska, M. Cież
	P.2.7	Polymer-Silver Layers as Car Mirrors Heating Elements Andrzej Łukasik, Stanisław Nowak, Krzysztof Witek
	P.2.8	Shearing And Tensile Strenghts Of The Environment-Friendly Interconnections Frantisek Steiner, Ales Hamacek
	P.2.9	Double Step Donor Doping For Junction Formation In Silicon Solar Cells Piotr Panek, Marek Lipiński, Paweł Zięba, Kazimierz Drabczyk
	P.2.10	Optimization Of The Emitter Of Silicon Solar Cells In Thick Film Technology Marek Lipiński, Paweł Zięba, Piotr Panek, Kazimierz Drabczyk

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Day / Session	ID	Author(s) / Title
19.09.2005 2 nd Poster Session 15 ³⁰ -16 ⁴⁵	P.2.11	Application Of Silicon Nitride For Silicon Solar Cells Marek Lipiński, Paweł Zięba, Piotr Panek, Stanisława Jonas, Stanisława Kluska, Halina Czternastek, Adam Szyszka, Bogdan Paszkiewicz
	P.2.12	High Doped Phosphorus Sources For Short Time Diffusion Processes In Silicon Solar Cells Technology Kazimierz Drabczyk, Krzysztof Waczyński, Wojciech Filipowski, Piotr Panek, Marek Lipiński
	P.2.13	FE-Analyses Of Lead-Less Solder Joints With Pore Inclusion Walter Gschohsmann, Walter Smetana
	P.2.14	Thin LSFO Films For Bolometers Sylwia Rydzewska, Andrzej Łoziński
	P.2.15	Structural Properties Of Cds/Zno Bilayers For Photovoltaic Purposes Elżbieta Schabowska-Osiowska, Henryk Jankowski, Teresa Kenig, Edward Kusior, Tadeusz Pisarkiewicz
	P.2.16	Combined System For Testing Of Joints In Microelectronic Packaging Under Thermal Cycling, Humidity And Vibration Loading Tomasz Fałat, Jan Felba, Przemysław Matkowski, Krzysztof Urbański, Zbigniew Żaluk
	P.2.17	A Novel Approach to Testing of Microstructures Operation Piotr Dziurdzia
	P.2.18	Optimization of Amorphous/Crystalline Si Solar Cell Tandem Structure Andrzej Kołodziej, Paweł Krewniak
	P.2.19	A-Si:C:H Films As A New Material For Improvement Of Solar Cells Barbara Swatowska, Tomasz Stapinski
	P.2.20	Toward New Technical Standards For Estimaton Of The Performance Of Photovoltaic (PV) Devices Operating In Natural Environment Tadeusz Żdanowicz, Tadeusz Rodziewicz
	P.2.21	Angular Response To Solar Radiation Of The Commercial Photovoltaic (PV) Modules Adam Prus, Mariusz Prorok, Tadeusz Żdanowicz, Tadeusz Rodziewicz
	P.2.22	Statistical Filtering Of Large Amount Of Data Collected In Outdoor Monitoring System To Improve Accuracy Of The Performance Parameters Determined For Photovoltaic (PV) Modules Under Test Włodzimierz Kolodenny , Krzysztof Bobin, Tadeusz Żdanowicz

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Day / Session	ID	Author(s) / Title
20.09.2005 3 rd Poster Session 11 ³⁰ -13 ⁰⁰	P.3.1	The Influence Of TiO₂ On The Structure, Resistance And Electrical Stability Of Bulk Resistors Operating In High Voltage (15kv) Impulse Circuit Ewa Klimiec, Stanisław Nowak, Wiesław Zaraska, Jerzy Stoch
	P.3.2	Embedded Neural Processor In A Non-Linear, Low-Level Signal Conditioning System For Thin Film Vacuum Sensors Krzysztof J. Urbański, Józef Kudzia, Tadeusz M. Berlicki
	P.3.3	Structural and Optical Properties of Electrodeposited Ag-Se Coatings Tsvetina Dobrovol'ska, Tomas Duris, Andrzej Kołodziej
	P.3.4	Imaging the Printed Circuits on PCB using LDI Technology Robert Barbucha, Marek Kocik, Jerzy Mizeraczyk, Włodzimierz Janke, Maciej Oleksy, Grażyna Koziół, Janusz Borecki
	P.3.5	Implementation of a Wearable Wireless Sensor System Brendan O'Flynn, Andrew Lynch, Kevin Aherne, Aoife Murphy, Jonathan Rothwell, Andre Barasso, John O Mahony
	P.3.6	The Influence Of Non-Linear Distortions On The Spectra Of Photoacoustic Signal Zbigniew Suszyński, Radosław Duer
	P.3.7	Modeling Of Microstructures In Sheet Resistors Ehrhardt Waleed, Thust Heiko
	P.3.8	Innovative System for Experimental Development of White LED Lamps Wojciech Grzesiak, Michał Cież, Stanisław Nowak, Krzysztof Zaraska, Antoni Slabon
	P.3.9	The Concept Of A Stimulation Station And Passive Neuroimplants Krzysztof Zaraska, Michał Cież, Piotr Thor, Wiesław Zaraska
	P.3.10	Advanced Current Sources for Supply of High Brightness LED Lamps Wojciech Grzesiak, Michał Cież, Tomasz Maj, Krzysztof Witek, Wiesław Zaraska
	P.3.11	High Permittivity Thick Films Based On Pb(Fe_{1/2}Ta_{1/2})O₃ - Pb(Fe_{1/2}Nb_{1/2})O₃ - PbTiO₃ Solid Solutions Jan Kulawik, Dorota Szwagierczak, Barbara Gröger
	P.3.12	Preparation And Characterization Of Sr_{1-x}Ce_xMnO₃ Thick Films For Electrode Layers Dorota Szwagierczak, Barbara Gröger, Jan Kulawik, Agata Skwarek
	P.3.13	Properties Of Conductive Strontium Cerium Manganate Ceramics Barbara Gröger, Agata Skwarek, Jan Kulawik, Dorota Szwagierczak, Stanisław Nowak
	P.3.14	Analysis of a Thermoacoustic Approach for the Evaluation of Hermeticity of Packaging of Electronic Devices Ludmiła Majchrzak, Mirosław Maliński

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Day / Session	ID	Author(s) / Title
20.09.2005 3rd Poster Session 11³⁰-13⁰⁰	P.3.15	Integrated Planar Optical Waveguide System With Diamond-Like Carbon Film As Sensing Layer Mateusz Śmietana, Jerzy Kalenik, Jan Szmidt, Jacek Grabarczyk
	P.3.16	The Influence Of Crystalline Phosphors Features On The Parameters Of Electroluminescent Capacitors Michał Cież, A.Marek Łukasik, Wiesław Zaraska, Zbigniew Porada
	P.3.17	Electrical Properties Ceria Films Prepared By Net Shape Technology Piotr Jasiński, Vladimir Petrovsky
	P.3.18	Single Chamber Solid Oxide Fuel Cell – Current Stage Of Development And Prospects Piotr Jasiński
	P.3.19	Defrosting Rate Of Car Mirrors Heated By Polymer Microcomposites Layers Andrzej Łukasik, Krzysztof Witek, Michał Cież
	P.3.20	Polymer-Silver Resistive Activation Layers in the chemical Ni-P metallisation process Andrzej Łukasik, Zbigniew Pruszowski, Maciej Filipczyk
20.09.2005 4th Poster Session 15⁰⁰-16³⁰	P.4.1	Tolerance Design Of The LTCC Ceramic Pressure Sensor Sensitivity Artur Wymysłowski, Marina Santo-Zarnik, Darko Belavic
	P.4.2	Response Of An Optimized SNO₂-Based Gas Sensor Structure To Changes Of NO₂ Concentration In Synthetic Air Bogusława Adamowicz, Weronika Izydorczyk, Jerzy Uljanow, Krzysztof Waczyński
	P.4.3	Thin Film Sensor For The Measurement Of Liquids Thermal Parameters Jakub Brzeziński, Tadeusz Berlicki
	P.4.4	Mass Flow Sensor Realized in LTCC-Technology D. Gülerüz, W. Smetana
	P.4.5	Design, Processing And Characterisation Of Low-Range Piezoresistive LTCC Force Sensors Hansu Birol, Marc Boers, Thomas Maeder, Giancarlo Corradini and Peter Ryser
	P.4.6	Design and Fabrication of Miniaturised Inertial Measurement Units for Automotive Heads Up Displays A. Lynch, J. Barton, B. O'Flynn, F. Murphy, S. C. O'Mathuna, P. Repetto, R. Finizio, C. Carvignese, L. Liotti
	P.4.7	New Micromechanical Structures Fabricated In Si (Hkl) Substrates Irena Zubel, Małgorzata Kramkowska
	P.4.8	Application of Laser Manufactured Stencils in Surface Mount Technology Janusz Borecki, Grażyna Koziół, Wojciech Stęplewski

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20.09.2005	P.4.9	LTCC Fluidic Module For Optical Detection L.J. Golonka, K. Malecha, H. Roguszczak, T. Zawada M. Chudy, A. Dybko, D. Stadnik
	P.4.10	Novel Compositions For Thick Film Heaters And Thermoresistors – Basic Electrical And Stability Properties A. Dziedzic, L. Golonka, T. Zawada, H. Roguszczak, W. Gryniwicz
	P.4.11	The Thermoelectric Properties Of Thick-Film Composites - Preliminary Results Piotr Markowski, Aneta Wójtowicz, Andrzej Dziedzic
	P.4.12	Thick-Film And LTCC Multicontact Resistors - Preliminary Results Edward Miś, Andrzej Dziedzic, Marek Wroński, Sławomir Kamiński, Lars Rebenklau, Klaus-Jurgen Wolter
	P.4.13	The Effect Of Ageing Process On The Parameters Of A Thin Film Optoelectronic AND-OR-INVERT Logical Gate Zbigniew Porada, Elżbieta Schabowska-Osiowska
4 th Poster Session 15 ⁰⁰ -16 ³⁰	P.4.14	An Investigation of Thick-film Materials for Sensors and Actuators Darko Belavič, et al
	P.4.15	UV Nd:YAG Laser Microvias In Build-Up RCC And FR-4 Prepreg Layers Aneta Araźna, Grazyna Koziol, Janusz Borecki, Wojciech Faliński
	P.4.16	Matrix Of Thermal Characters For The Blind Based On Peltier Modules Krzysztof Boroń, Piotr Bratek, Andrzej Kos
	P.4.17	Electrothermal Model of the Thermoelectric Generator Based on a Peltier Pump Piotr Dziurdzia
	P.4.18	Fabrication of Micro-Fluidic Devices with Fodel Dielectric Zb. Magoński, B. Dziurdzia, St. Nowak
	P.4.19	Influence of Tin Oxide and Other Coverings of Alumina Substrates upon Edge Curl and Shrinkage Reduction of Fodels B. Dziurdzia, Zb. Magoński, St. Nowak, H. Jankowski, W. Gregorczyk
	P.4.20	Assembly Accuracy under Special Aspects of Optoelectronic Components Michał Walaszek, Reinhard Bauer, Gerhard Schubert, Ryszard Jezior
	P.4.21	Analysis Of The Temperature Dependencies Of Electric Conductivity Of $(\text{Fe}_{0.45}\text{Co}_{0.45}\text{Zr}_{0.10})_x(\text{Al}_2\text{O}_3)_{1-x}$ Nanocomposites Bohdan Andriyevsky, Wioleta Ciepluch-Trojanek, Aleksy Patryn, I.A. Svito, A.V. Mazanik, Zbigniew Czaplą, Sławomir Dacko