

MIDEM 2002 Conference Program (Final)

WEDNESDAY, OCTOBER 9

09:00 WELCOME AND OPENING CEREMONY

09:15 SESSION ON CERAMICS, METALS AND COMPOSITES

CHAIRPERSON : M. Kosec

09:15 INVITED PAPER

S. Valizadeh, L. Hultman

Template Synthesis of One Dimensional Single and Multilayered Nanowires

10:00 B. Malic, D. Jenko, M. Starowicz, J. Bernard, M. Kosec

Processing and Characterization of (K,Na)NbO₃ Based Piezoceramics

10:15 A. Moure, C. Alemany, D. Kuscer Hrovatin, L. Pardo, M. Kosec

Microstructural and Piezoelectric Properties of (SrBi₂Nb₂O₉)_{0.35}(Bi₃TiNbO₉)_{0.65} Aurivillius-type Structure Ceramics from Mechanochemically Activated Precursors

10:30 COFFEE BREAK

10:45 SESSION ON CERAMICS, METALS AND COMPOSITES

CHAIRPERSON : B. Malic

10:45 G. Drazic, S. Zupan, S. Kobe, P. McGuinness, J. Strazisar

AEM Study of the Influence of High Magnetic Fields on Calcium Carbonate Nucleation and Crystallisation

11:00 J. Kovac, A. Vesel, A. Zalar

Study of Interfacial Reactions Between Si Thin Film and GaN Substrate by Synchrotron Radiation

11:15 F. Koplán

Automation of Production On-line Testing and Inspection of AlNiCo Magnets

11:30 M. Godec, M. Jenko, D. Mandrino, B. Sustarsic

Nanocrystalline Fe-Si-B Powder Particles for Soft Magnetic Applications

11:45 M. Mandeljc, B. Malic, M. Kosec

Influence of the Starting Compounds on the Crystallization and Electrical Properties of CSD PZT and PLZT Thin Films Prepared by Low-temperature Heat-treatment

12:00 S. Javoric, B. Malic, M. Kosec

PZT Thin Films on La_{0.5}Sr_{0.5}CoO₃ Bottom Electrodes Prepared by Chemical Solution Deposition

12:15 U. Cvelbar, M. Mozetic, A. Zalar, D. Babic, I. Poberaj

Surface Activation of a Polymer Foil by Oxygen Plasma

12:30 LUNCH

14:15 SESSION ON CERAMICS, METALS AND COMPOSITES

CHAIRPERSON : S. Bernik

14:15 M. Mozetic, A. Zalar

Discharge Cleaning of Silver Contacts

14:30 A. Bencan, M. Hrovat, J. Holc, G. Drazic, M. Kosec

Structural and Electrical Characterization of PZT Films Fired on Nickel Substrates

14:45 S. Bernik, A. Tavcar, S. Macek, M. Haris, M. Cergolj
The Development of Miniaturized ZnO-based Medium-voltage Energy Varistors

15:00 W. Mielcarek, K. Prociow
ZNO Varistor Technology Modification with BaBiO_{2.77}

15:15 SESSION ON INTEGRATED CIRCUITS / CHAIRPERSON : J. Trontelj

15:15 A. Stern
RFID Receiver Input Stage

15:30 S. Starasinic
Dual Frequency Signal Decoder

15:45 A. Pletersek, R. Benkovic
HVG - High Voltage Generation with Multistage Charge Pump

16:00 COFFEE BREAK

16:15 SESSION ON INTEGRATED CIRCUITS
CHAIRPERSON : J. Trontelj

16:15 M. Finc, A. Trost, A. Zemva
HW/SW Co-design and Implementation of Motion Detection Algorithms in an FPGA Device

16:30 A. Vodopivec
Checking Modern Design Rules with Magic

16:45 D. Raic
Supply Current and Switching Noise Scaling in Clock-skewed Systems

17:00 M. Verderber, A. Zemva
HW/SW Partitioned Time Optimization of the MPEG2 Video Decoder in FPGA

17:15 J. Dedic, T. Zontar, A. Janhar, A. Trost
Design and Implementation of Customized Embedded Platform

17:30 VISIT TO SYNCHROTRON ELETTRA IN BAZOVICA

20:00 WELCOME COCKTAIL - HOTEL KLUB

MIDEM 2002 Conference Program (Final)

THURSDAY, OCTOBER 10

09:00 WORKSHOP ON PACKAGING AND INTERCONNECTIONS IN ELECTRONICS
CHAIRPERSON : D. Belavic

09:00 INVITED PAPER

J. Ptak

Business and Technology Challenges in Electronics Industry in the Early 21st Century

09:45 INVITED PAPER

H. Quinones, A. Babiarz

Flip Chip, CSP and WLP Technologies : A Reliability Perspective

10:30 COFFEE BREAK

10:45 WORKSHOP ON PACKAGING AND INTERCONNECTIONS IN ELECTRONICS
CHAIRPERSON : D. Belavic

10:45 INVITED PAPER

P. Svasta, V. Golumbeanu, C. Ionescu

Electronic Passive Components Training Activity - Demand for Performance Electronic Package Development

11:30 INVITED PAPER

J. Mueller, H. Griese, H. Reichl, Karl-Heinz Zuber

Lead Free Interconnection Technology and the Environment

12:15 INVITED PAPER

P. Collander

Packaging and Interconnect for RF and Microwave

13:00 VISIT TO THE STUD FARM

13:30 LUNCH

15:45 WORKSHOP ON PACKAGING AND INTERCONNECTIONS IN ELECTRONICS
CHAIRPERSON : D. Belavic

15:45 INVITED PAPER

L. Golonka, A. Dziedzic, J. Kita, T. Zawada

LTCC in Microsystems Application

16:30 INVITED PAPER

M. Hrovat, D. Belavic, M. Pavlin, J. Holc

Diffusion - Patterning; One of the Thick - film Interconnections Technologies

17:15 COFFEE BREAK

17:30 WORKSHOP ON PACKAGING AND INTERCONNECTIONS IN ELECTRONICS

CHAIRPERSON : L. Golonka

- 17:30 K. Arshak, T. O`Shea, D. Egan**
An Investigation Into the Use of a Polymer Film as an Alternative Material for Protecting Copper Terminals From Oxidation During the Electroplating Process
- 17:45 K. Bukat, J. Sitek**
Assessment of Lead -free Solder Pastes Wettability
- 18:00 H. Hackiewicz, G. Koziol, E. Malczynska-Paz**
Microvia Formation Problems
- 18:15 M. Hrovat, J. Holc, D. Belavic, J. Bernard**
Interactions Between Conductive Phase and Glass in Thick-film Resistors
- 18:30 V. Sedlakova, F. Melkes, J. Sikula, P. Dobis, D. Rocak, D. Belavic**
Influence of Contact Electrode on Thick film Resistors Noise and Non-linearity
- 18:45 A. Dziedzic, W. Mielcarek**
Varistors in LTCC Structures
- 19:00 M. Hrovat, J. Holc, S. Drnovsek, D. Belavic, J. Bernard, M. Kosec, L. Golonka, A. Dziedzic, J. Kita**
PZT Thick Films on LTCC Substrates

20:00 CONFERENCE DINNER - HOTEL KLUB

MIDEM 2002 Conference Program (Final)

FRIDAY, OCTOBER 11

09:00 SESSION ON SENSORS

CHAIRPERSON : S. Amon

09:00 J. Trontelj, A. Pevec

Outband Calibration of Magnetic Microsystems

09:15 D. Strle

Design Considerations for Integrated Low-noise Light Intensity Measurement System

09:30 M. Mozek, Z. Chobola, U. Aljancic, D. Vrtacnik, D. Resnik, S. Amon

Noise Sources in JFET PTAT Structure

09:45 U. Aljancic, D. Resnik, D. Vrtacnik, M. Mozek, S. Amon

Temperature Drift of Piezoresistive Pressure Sensor Offset Voltage

10:00 G. M. Bilei, F. Moscatelli, D. Passeri, G. U. Pignatelli, A. Santocchia, G. Hall, B. MacEvoy

Defects Modeling of Heavily Irradiated Silicon Detectors

10:15 D. Vrtacnik, D. Resnik, U. Aljancic, M. Mozek, S. Amon

Characterization of Strip Capacitances in Silicon Microstrip Detector

10:30 M. Santo Zarnik, D. Rocak, S. Macek

An Analysis of the Residual Stresses in a Silicon Piezoresistive Pressure-sensor Die Induced by Adhesive Material During Curing

10:45 D. Belavic, M. Hrovat, A. Bencan, J. Bernard, J. Cilensek, W. Smetana, H. Homolka, R. Reicher, L. Golonka, A. Dziedzic, J. Kita

Thick-film Resistors as Sensing Elements on Various Substrates

11:00 COFFEE BREAK

11:15 SESSION ON OPTOELECTRONICS

CHAIRPERSON : M. Topic

11:15 E. Bunte, V. Mandryka, H. -J. Büchner, G. Jäger, H. Stiebig,

A New Concept for Position Detectors Based on Sampling a Standing Wave

11:30 J. Krc, H. Stiebig, M. Vukadinovic, F. Smole, M. Topic

Modelling of Dynamical Properties of a-Si:H p-i-n Photodetector

11:45 M. Vukadinovic, Francisco A. Rubinelli, F. Smole, M. Topic

ASPIN and D-AMPS in Parallel - Comparison of Tunnelling Models on $\mu\text{-Si}$ and a-Si Junctions

12:00 M. Jankovec, F. Smole, M. Topic

Automated Solar Cell Characterisation System

12:15 A. Suhadolnik, J. Petrisic

Rough Core Surface Optical Fiber Displacement Sensor

12:30 SESSION ON DEVICE PHYSICS AND MODELLING

CHAIRPERSON : B. Cviki

12:30 U. Merc, F. Smole, M. Topic

Energy Levels in Double and Triple Barrier Structures in the Presence of an Electric Field and Formation of Superlattice Minibands

12:45 B. Cviki, D. Korosak

The I-U and C-U Barrier Heights of Non-ideal Schottky Junctions

13:00 D. Korosak, B. Cvikl

Interface Charge in Non-ideal Metal -semiconductor Structures

13:15 D. Resnik, D. Vrtacnik, U. Aljancic, M. Mozek, S. Amon

Aluminum as a Protective Mask in Anisotropic Wet Etching of Silicon

13:30 A. Pirih, A. Pregelj, V. Murko, Z. Hribar, A. Stagoj

Development of Electric Measurements for Gas Arrester Characterization

13:45 CLOSING OF THE CONFERENCE