

**INTERNATIONAL**  
**optoelectronics**  
**WORKSHOP**  
20 – 22 June 2008

**PROGRAMME OF**  
**2008 International Students and Young Scientists Workshop**  
**"Photonics and Microsystems"**  
**20-22 June, Wrocław/Szklarska Poreba, Poland**

**FRIDAY**

- 14.00-15.00 Wrocław, Wrocław University of Technology Campus, building C-2, room 306  
REGISTRATION OF PARTICIPANTS  
15.00-15.20 Opening of the Conference – chairmen talks

**SESSION I**

**Optoelectronic and microsystem devices**

- 15.20-15.50 **INVITED TALK**  
**Professor Jan A. Dziuban**  
*Optical detection in microfluidics*  
15.50-16.05 Conrad Holger  
*Actuating Methods of Quasi Static Micro Mirrors for Active Focus Variation*  
16.05-16.20 Rigo Herold  
*OLED-on-CMOS Integration for Augmented-Reality Systems*  
16.20-16.35 Andrzej Wiatrek  
*Numerical Investigation of Brillouin Based Double Sideband Amplification for Millimeter-Wave Generation*  
17.00 Bus departure to Szklarska Poreba  
ab. 20.00 Arrival to Szklarska Poreba  
20.00-20.30 Check-in  
20.30 Supper

**SATURDAY**

- 8.00-9.00 Breakfast

**SESSION II**

**Fabrication and characterization of electronic and optoelectronic materials**

- 9.00-9.40 **INVITED TALK**  
**Professor Jan A. Dziuban**  
*CSAC's: MEMS atomic clocks with optical excitatism of cesium vapour*  
9.40-9.55 Damian Wojcieszak  
*Characterization of thin films based on TiO<sub>2</sub> by XRD, AFM, FTIR and XPS measurements*  
9.55-10.10 Daniel Friedrich  
*Electrical investigations on MFIS structures consisting P[VDF/TrFE] as ferroelectric layer for non-volatile memory applications*  
10.10-10.25 Joanna Prażmowska  
*Growth and characterization of GaN on sapphire substrates*

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- 10.25-10.40 Karolina Sieradzka  
*Investigation into electrical and optical properties of TiO<sub>2</sub>:Pd, TiO<sub>2</sub>:(Eu,Pd) and TiO<sub>2</sub>:(Tb,Pd) thin films*
- 10.40-10.55 Patryk Halek  
*Electrophoretic deposition of solid electrolyte for non-nernstian electrochemical gas sensors*

**SESSION III**

**Characterization methods**

- 10.55-11.10 Reinhold Herschel  
*The evaluation of thin electrolessly plated metal layers by means of surface plasmon resonance*
- 11.10-11.25 Wojciech Braksator  
*Femtosecond laser pulse measurement based on optical autocorrelator at 1550 nm*
- 11.25-11.40 Kai-Uwe Lauterbach  
*High Resolution Spectroscopy on Optical Signals in Fiber Communication Systems*
- 11.40-11.55 Krzysztof Urbański  
*A fast recorder for changes of a resistance during joint failure in electronics*
- 11.55-12.15 Café break

**SESSION IV**

**Characterization methods**

- 12.15-12.30 Szymon Lis  
*Characterization of two dimensional photonics structures using optical scatterometry*
- 12.30-12.45 Markus Ratzke  
*Electrostatic Force Microscopy – Principles and application to semiconducting samples*
- 12.45-13.00 Aleksandra Małko  
*W-Band Measurements For Common Building Material*
- 13.00-14.00 Lunch

**SESSION V**

**Metallization and packaging methods development**

- 14.00-14.15 Przemysław Matkowski  
*Management of waste electrical and electronic equipment in Poland – ecological, organizing and economical aspects*
- 14.15-14.30 Sebastian Müller  
*Deposition of reactive and non-reactive metals on Titanium Dioxide – Chromium and Cobalt*
- 14.30-14.45 Katarzyna Krówka  
*NiCrSi-Ag Contacts on SiC for Elevated Temperatures*
- 14.45-15.00 Bartosz Płatek  
*Susceptibility of solder masks on solderballing and webbing in wave soldering*
- 15.00-15.15 Michał Siesicki  
*Integrated optical waveguides for electrooptical PCB*

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15.15-15.30	Sebastian Tesarski <i>An analysis of VOC-free fluxes and lead-free solders application in a manual SMD soldering</i>
15.30-20.30	Small walk
21.00-	Barbecue

**SUNDAY**

8.00-9.00	Breakfast
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**SESSION VI**

**Fabrication and characterization of electronic and optoelectronic materials**

9.00-9.40	Ralf Rieske, Ph.D., D.Sc. <i>Electro-Optical Circuit Boards in Outlines - a decade of research and future chances</i>
9.40-9.55	Krzysztof Nowak <i>Characterization and measurements of sol-gel derived stripe waveguide on LTCC substrate</i>
9.55-10.10	Barbara Werner <i>Using Physical Parameters in Predicting Energy Gain of CIGS PV Modules</i>
10.10-10.25	Tomasz Jóźenków <i>Towards the Limits of Thick-Film Resistors` Miniaturization</i>
10.25-10.40	Grzegorz Halek <i>Behaviour of semiconductor gas sensors with sol-gel sensing layer</i>
10.40-10.55	Piotr Psuja <i>Selected nanomaterials for field emission display applications</i>
10.55-11.10	Magdalena Pietrzak <i>Fabrication, luminescent properties and possible photonics application of Eu:Y<sub>2</sub>O<sub>3</sub> nanoparticles</i>
11.10-11.25	Lech Marciniak <i>The concept of transparent Ce:YAG layer for white light emitting diodes</i>
11.25-11.40	Break

**SESSION VII**

**Optical fibers - application and techniques development**

12.15-12.30	Daniela Lutz <i>Prism-Spectrometer as Demultiplexer for WDM over POF</i>
12.30-13.00	Rafał Tadaszak <i>Pressure assisted polymer removal from glass optical fibres</i>
13.00-13.15	Adam Watras <i>Optical Frequency Combs in 1550nm range</i>
13.15-13.30	Wojciech Żurawski <i>Evidences of four-wave mixing in optical fibers</i>
13.30-13.45	Hendrik Seargent <i>The ring fibre laser with internal acousto-optical Bragg mode-locking</i>
13.45-14.00	END OF THE CONFERENCE
14.00-15.00	Lunch
15.00	Departure to Wrocław