

XXIIth IEEE-SPIE Joint Symposium on Photonics, Web Engineering, Electronics for Astronomy and High Energy Physics Experiments

30 May - 01 June 2008

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2008-05-29 Thursday

THURSDAY I - Technical Session

16:00 (filler)

18:00 DINNER

THURSDAY II - Technical Session

19:00 (filler)

2008-05-30 Friday

08:30 BREAKFAST

09:30 OFFICIAL OPENING - prof. R. Romaniuk

FRIDAY I - Simulations and Computer Aided Experiments in Electrical Engineering [prof. J. Gołębowski]

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|-------|---|------------------------|
| 09:45 | The iterative approach to the optimal linearization method | Paweł Myszkowski |
| 10:00 | Determination of the Initial Conditions in the Parallel Method for the State Equation Solving | Jarosław Forenc |
| 10:15 | Experimental Verification of Double Current Strain Gauge Meter | Wojciech Walendziuk |
| 10:30 | Clasification of the Space Domain Decomposition in the Parallel FDTD Implementation | Wojciech Walendziuk |
| 10:45 | Copper electrocrystallization in the presence of different kind of modeling electrodes | Anna Maria Białostocka |
| 11:00 | COFFEE/TEA BREAK | |

FRIDAY II - High Energy Physics Experiments [prof. R. Romaniuk, M. Ramotowski]

- 11:15 New RF Control System for the 12 GeV Energy Upgrade of the CEBAF Accelerator at Jefferson Lab Tomasz Plawski
- 11:45 New type of hadron therapy accelerator Marcin Wojciechowski
- 12:00 X-ray diffraction studies of the structure of Nb Films Deposited by Ultra-High Vacuum Cathodic Arc Technique Robert Nietubyc
- 12:15 Orbit measurement system for the CERN PS Grzegorz Kasprowicz
- 12:30 TV-tests of SIR instrument. Piotr Sitek
- 12:45 The Component Internal Interface implementation in C++ for the CMS. Paweł Drabik
- 13:00 PALINDROMES - prof. T. Morawski
- 13:30 Brief introduction to applications of Ocean Optics miniature fiber spectrometers and other optical products of SPECTROPOL
- 14:00 LUNCH

FRIDAY III - Light guiding phenomenon in optical fibers and devices [dr M. Borecki]

- 15:00 Fiber based microwave filters for applications in optoelectronic oscillators Krzysztof Madziar
- 15:15 Investigation of selected properties of thick dielectric films Mateusz Mroczkowski
- 15:30 Gigabit Ethernet link parameters influence on quality of transmission and cost analysis of protected metropolitan area networks Michał Zaremba
- 15:45 (filler)
- 16:45 COFFEE/TEA BREAK

FRIDAY IV - WARMER Program [prof. L. Opalski]

- 17:00 Physical and behavioral modeling of ion sensors in WARMER project Ogrodzki Jan
- 17:15 TDR-based DSL line characterization Katarzyna Opalska
- 17:30 Time-domain reflectometry module for DSL line analyzer Katarzyna Opalska
- 17:45 Data processing for multisensor in-situ measurements - WARMER perspective Leszek Opalski
- 18:00 Uncertainty estimation for potentiometric sensor measurements Hubert Drabczyk
- 18:15 Picosecond resolution programmable delay line Mariusz Suchenek
- 18:30 An empirical study of transient electrical properties of ion sensors Piotr Wieczorek
- 18:45 DINNER

FRIDAY V - SPIE Poland Student Chapters

19:30	Photoelastic tomography setup for measurement of axial stress distribution in optical fibers.	Grzegorz Mączkowski
19:45	Automation for remote control of the photoelastic tomography setup	Jakub Krzesłowski
20:00	Introduction to measurement of absorption by spectral OCT	Danuta Bukowska
20:15	OPTICAL COHERENCE TOMOGRAPHY FOR NON-DESTRUCTIVE INVESTIGATIONS OF STRUCTURE OF OBJECTS OF ART	Ewa Kwiatkowska
20:30	Atomic Force Microscopy Imaging of DNA Immobilized on Mica	Agnieszka Górska
20:45	PhotoDSC	Gil Malgorzata
21:00	(filler)	
21:30	BARBECUE	

2008-05-31 Saturday

08:30 BREAKFAST

SATURDAY I - Bialystok University of Technology, Optical Radiation Department [prof. J. Dorosz]

09:15	The analysis of light transmission in double layer capillary waveguide	Piotr Miluski
09:30	Crystallization kinetics of glasses from the system SiO ₂ - PbF ₂ - Al ₂ O ₃ - ZnO - ZnF ₂ -LaF ₃	Marcin Kochanowicz
09:45	Influence of refractive index of stress elements on properties of polarization fibers.	Agnieszka Zadykowicz
10:00	Properties of polarization fibers with rectangular stress elements.	Agnieszka Zadykowicz
10:15	Rare earth double-doping in fiber lasers	Joanna Cichoń

SATURDAY II - Optimal learning systems and applications [dr S. Jankowski]

10:30	Advanced computer graphic techniques for laser range finder (LRF) simulation	Janusz Bedkowski
10:45	Semisupervised classifier of signal-averaged ECG based on K-means clustering	Jacek Wydrzynski
11:00	Significant parameter selection by orthogonal least squares methods	Michał Raczyk
11:15	Deep level defect structure of semi-insulating material by local cluster neural network	Tomasz Pichlak
11:30	The influence of the OPAMP transfer functions model on the properties of active-R oscillator	Mirosław Płaza
11:45	COFFEE/TEA BREAK	

SATURDAY III - PERG/ELHEP [prof. R. Romaniuk, M. Ramotowski]

12:00	Distributed Diagnostic System for the FLASH Master Oscillator	Krzysztof Czuba
12:15	Copper cavity tuning for test stand purposes.	Mateusz Maciaś
12:30	Test stand with copper TESLA cavity.	Jakub Główka
12:45	New CCD Camera with Linux on board for "Pi of the Sky" project	Maciej Kwiatkowski
13:00	Research Group Management System	Kamil Maj
13:15	UMC - Pci bridge	Samer Bou Habib
13:30	Web Server Protection with Intrusion Prevention Systems	Arkadiusz Kalicki
13:45	Universal Platform for High Speed DSP's and FPGA	Dymanowski&Lewanowski Lukasz&Kamil
14:00	LUNCH	

SATURDAY IV - PERG/ELHEP [prof. R. Romaniuk, M. Ramotowski]

15:00	Optimization of the optical pulse energy for switches based on thin films of high-Tc superconductors	Jan Waskiewicz
15:15	Factorization on CLASTER	Marek Wilczewski
15:30	IRES system	Stefan Korolczuk
15:45	Dual channel photomultiplier readout module.	Michał Bohdanowicz
16:00	Universal Measurement System with Web Interface	Maciej Lipinski
16:15	Autonomous Power Supply Controller for MXGS.	Andrzej Cichocki
16:30	USB controlled Stepper Motor Driver to be used in didactic laboratory of nuclear techniques in the Institute of Nuclear Studies	Łukasz Koniusz
16:45	COFFEE/TEA BREAK	

SATURDAY V - PERG/ELHEP [prof. R. Romaniuk, M. Ramotowski]

17:00	AMC - Timming Reciever	Michal Ladno
17:15	Vector Network Analyser for Particle Accelerators instrumentation diagnostics	Michał Włodarczyk
17:30	The universal measurement system designed for environmental research	Wojciech Górecki
17:45	Implementing FFT in Virtex-4FX Device	Tomasz Huszcza
18:00	Agile developement in Gadu-Gadu S.A.	Przemek Łacki
18:15	Multileaf collimator control system - MLC head improvements	Grzegorz Plebański
18:30	MLC Control System – Control Room Module	Krzysztof Sajna
18:45	Equipment Database for CMS Experiment	Zbigniew Malinowski

SATURDAY VI - Simulation and mathematical modelling of voltage transformers [dr R. Nowicz]

- 19:00 Simulation of voltage transformers operation in the external magnetic fields Michał Kaczmarek
- 19:15 Simulation of the voltage transformer with the open core Robert Chmielecki
- 19:30 DINNER

SATURDAY VII - PERG/ELHEP Freshman session [prof. R. Romaniuk, M. Ramotowski]

- 20:30 Freshman Session Paweł Lipka
- 20:45 Freshman Session Mateusz Szczygielski
- 21:00 (filler)
- 21:30 BARBECUE

2008-06-01 Sunday

- 07:30 Leaving Warsaw by the SPIE and PSP delegations
- 08:00 BREAKFAST
- 08:59 Arriving at WILGA WUT Resort
- 09:00 COFFEE/TEA & CAKES

SUNDAY I - Students research session on Photonics

- 09:30 External refractive index influence on transmission properties of single-mode thermally tapered couplers Łukasz Sawicki
- 09:45 Fiber Bragg grating multiplexing system Lech Lewandowski
- 10:00 The LabView application for fiber Bragg grating sensor system management and data processing. Dariusz Podsiadły
- 10:15 A MODEL OF A LASER DIODE FOR USING IN ANALOG FIBRE OPTICAL LINKS Daniel Paluch
- 10:30 Plane wave method for photonic liquid crystal fibers modeling. Krzysztof Iwaszczuk
- 10:45 Multi-parameter sensing based on photonic liquid crystal fibers Karol Godyn
- 11:00 Depolarization of partially coherent light in birefringent optical fibers Rafał Cieślak
- 11:15 8xADC AMC for XFEL control system Tomasz Klonowski
- 11:30 (filler)
- 12:00 Students discussion with SPIE and PSP delegations
- 13:00 Sightseeing of WILGA Facilities by SPIE and PSP delegations
- 14:00 WILGA Students Lunch in honour of SPIE and PSP delegations with SPIE award ceremony for the best student paper

SUNDAY II - Post Deadline Session

15:00 (filler)

16:45 COFFEE/TEA BREAK

SUNDAY III - Post Deadline Session

17:15 (filler)

19:00 Farewell

20:00 Arriving back to Warsaw by SPIE and PSP delegations