

EOS Conference on Trends in Optoelectronics

June 18 - 19, 2007

Room 21, International Congress Centre Munich (ICM), Germany

General Chair: Dieter Jäger, University of Essen-Duisburg (DE)

June 18: Sub-conference on Lighting & Displays

Conference Chair: Satoshi Ishihara, OIDTA (JP)

LED Lighting

- 10:30 **Welcome and introduction**
Dieter Jäger, University of Essen-Duisburg (DE);
Satoshi Ishihara, OIDTA (JP)
- 10:45 **LED Lighting - Achievements and Challenges from a Manufacturer's Perspective [Invited talk]**
Rüdiger Müller, OSRAM Opto-Semiconductors (DE)
- 11:15 **PowerLED for General Lighting**
Thomas Zeiler, OSRAM Opto-Semiconductors (DE)
- 11:35 **GaN-Based Vertical Light-Emitting Diodes on Metal Alloy Substrate for Solid State Lighting Application**
C.C. Cheng, C.F. Chu, W.H. Liu, J.Y. Chu, H.C. Cheng, F.H. Fan, J.K. Yen, Semi-Photonics (TW); C.A. Tran, T. Doan, SemiLEDs Corp. (US)
- 11:55 **Tailoring of the color conversion elements in phosphor converted LEDs by optical simulations**
C. Sommer, F.P. Wenzl, L. Kuna, G. Jakopic, E. Zinterl, Institute of Nanostructured Materials and Photonics (AT); P. Hartmann, P. Pachler, H. Hoschopf, S. Tasch, TridonicAtco Optoelectronics GmbH (AT); G. Leising, Institute of Nanostructured Materials and Photonics and Institute of Solid State Physics (AT)
- 12:15 **High Thermal Dissipation of Ultra High Power Light-Emitting Diodes by Copper Electroplating**
Kuan Chun Chen, Ricky W. Chuang, Y. K. Su, Hsiao Chiu Hsu and J.Q. Huang, Institute of Microelectronics and Advanced Optoelectronic Technology Center, National Cheng Kung University, (TW); C. L. Lin; Kun-Shan University (TW)
- 12:35 - 14:30 **Lunch Break**
- 14:30 **Challenges to High-performance LC-TVs in Digital Network Era [Invited talk]**
Yutaka Ishii, Sharp Corporation (JP)
- 17:10 **Organic light emitting diodes for lighting applications comprising fluorescent and phosphorescent emitters**
G. Schwartz, K. Walzer, M. Pfeiffer, and K. Leo, Technische Universität Dresden (DE)
- 17:30 **PIN type OLEDs for lighting applications on ITO and ZAO**
Yuto Tomita, Christian May, Michael Törker, Jörg Amelung, Michael Eritt, Frank Löffler, Claus Luber, Fraunhofer IPMS (DE); Karsten Walzer, Karsten Fehse, Qiang Huang, TU Dresden (DE); Karl Leo, Fraunhofer IPMS and TU Dresden (DE)
- 17:50 **Ultrastable and efficient red organic light emitting diodes**
R. Meerheim, K. Walzer, and K. Leo, Technische Universität Dresden (DE)
- 18:10 **End**
- 18:15 **Get-together for all congress attendees and exhibitors**
Location: ICM

June 19: Sub-conference on Information & Communication

Conference Chair: Michael Leppy, OIDA (US)

Optoelectronics information & communication 1

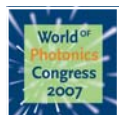
- 09:00 **Welcome and introduction**
Dieter Jäger, University of Essen-Duisburg (DE);
Michael Leppy, OIDA (US)
- 09:15 **Optoelectronic Devices for Optical Communication Systems [Invited talk]**
Edmond J. Murphy, JDSU (US)
- 09:45 **Theory of dispersion-managed solitons**
Mário F. S. Ferreira, University of Aveiro (ES)
- 10:05 **Optimization of semiconductor saturable absorber mirror operating in blue/UV region**
F. Lin, N. Xiang, National University of Singapore (SG)
- 10:25 **Simulation of Polarization Mode Dispersion compensation in high birefringent optical fibers at 40 Gbits/s**
Diamilataou Aïdara-Sy, P. Dherbécourt, O. Latry, M. Kétata, Université de Rouen (FR)
- 10:45 - 11:15 **Coffee break**

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- 11:15 **Preliminary demonstration of wavelength-division-multiplexing indoor optical wireless LAN by use of a special CMOS imager with a multi-channel fast data acquisition function**
K. Kagawa, K. Nomura, T. Miyawaki, M. Nunoshita, J. Ohta, Nara Institute of Science and Technology (JP)
- 11:35 **A Novel TDMA/WDMA Optical Flexible Access Network**
R. Glaty, Ph. Guignard, Ph. Chanclou, France Telecom R&D (FR)

New Devices in Lighting & Displays

- 14:30 **Tailor made white light emission from semiconductor nanocrystals**
S. Mayilo, T. A. Klar, A. L. Rogach and J. Feldmann Ludwig-Maximilians-Universität München (DE); S. Sapra, Ludwig-Maximilians-Universität München and Technische Universität Dresden (DE)
- 14:50 **Local luminescence of rare earth ions on Zn-diffused waveguides in aperiodically poled lithium niobate**
J. Canet-Ferrer, J. Martínez-Pastor, Universitat de Valencia (ES); E. Cantelar, F. Jaque, G. Lifante and F. Cussó, Universidad Autónoma de Madrid (ES)
- 15:10 **Technique for time-resolved thermal characterization of optoelectronic devices**
L. Lanco, L. Deveaux, S. Ducci, J.-P. Likforman, G. Leo, V. Berger, Université Paris 7 (FR); N. Michel, M. Krakowski, Alcatel Thales III-V (FR)
- 15:30 **CuInGa_{1-x}Se₂/S₂ thin films for solar cells with high quantum efficiency**
Victor Rares Medianu, Clementina Timus, National Institute for Lasers, Plasma and Radiation Physics (RO); Lucica Boroica, National Institute for Glass (RO)
- 15:50 **Tbd**
N.N.
- 16:10 - 16:40 **Coffee break**



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June 18 - 19, 2007 / Room 21, International Congress Centre Munich (ICM), Germany

June 19: Sub-conference on Information & Communication

Optoelectronics information & communication 2

- 11:55 **Integration of the optoelectronic behaviour of an autocorrelation sensor for velocity-measurements into standard CMOS structures**
H. Luo, W. Bonath, U. Ricklefs, University of Applied Sciences Giessen-Friedberg (DE)
- 12:15 **Research development of high performance semiconductor laser emission source for space laser communications**
Guojun Liu, Huilin Jiang, Jianjia Zhang, Hongzuo li, Zhu liang, Ling Wang, Guangyong Jin, Changchun University of Science and Technology (CN)
- 12:35 - 14:30 **Lunch Break**

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- 14:30 **Optical Home Networks with Polymer Optical Fiber (POF)**
S. Junger, B. Offenbeck, W. Tschekalinskij, N. Weber, Fraunhofer Institute for Integrated Circuits IIS (DE)
- 14:50 **Application of PVA/Acrylamide photopolymer for data page storage as a holographic memory**
E. Fernández, C. García, I. Pascual, M. Ortuño, S. Gallego, A. Beléndez, Universidad de Alicante (ES)
- 15:10 **High Performance Electrical-Optical-Circuit-Boards (EOCB) using planar Optical Interconnects integrated in Thin Glass Foils**
H. Schröder, Fraunhofer IZM (DE); A. Beier, Siemens AG (DE); R. Mödinger, Erni Electronics GmbH (DE); S. Intemann, ULM Photonics GmbH (DE); J. Kostelnik, Würth Elektronik GmbH & Co. KG (DE); E. Griese, University of Siegen (DE); I. Schlosser, AEMtec GmbH (DE)
- 15:30 **Dynamic reflection coefficient of the wall surfaces and its influence on fibreless optical diffused networks within interiors**
Vladimir Vasinek, Jaromir Necesany, Technical University of Ostrava (CZ)
- 15:50 **1 Gbit/s Bidirectional Optical Data Transmission over 50 m Semi-GI PCS Fiber with Monolithically Integrated Transceiver Chips**
M. Stach, F. Rinaldi, J. Scharpf, S. Lorch, R. Michalzik, Ulm University (DE)
- 16:10 - 16:40 **Coffee break**

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- 16:40 **Optical Technology Trends for Telecommunications [Invited Talk]**
David W Smith, Centre for Integrated Photonics (GB)
- 17:10 **Electrooptic Deflection - Modulation Mechanism for Short Link Laser Communication System**
Alireza Jangjoo, Azad University (IR)
- 17:30 **Magneto-optical Bistability of Layer Crystals**
C. Yu. Zenkova (UA)
- 17:50 **Electroluminescence from nanosize porous silicon using organic conductors**
S F Shaukat, R Farooq, COMSATS IIT (PK)
- 18:10 **End**
- 18:10 **Happy-hour for all attendees of the World of Photonics Congress 2007**
Location: ICM

Poster Session

June 19, 2007, ICM, 1st floor, foyer

The posters will be displayed during the whole day. Poster set-up and removal is the responsibility of the poster presenter. Posters can be set-up starting at 08:30 a.m. and must be removed at the end of the day.

12:35 - 14:30 **Official poster session**

The posters will be displayed during the whole day.

- P_001 **PMD-induced pulse broadening**
Mário F. S. Ferreira, University of Aveiro (PT)
- P_002 **Electro-optic system for electric charge measuring**
Lucie Dordova, Otakar Wilfert, *Brno University of Technology* (CZ); Karel Bartusek, *Academy of Sciences of the Czech Republic* (CZ)
- P_003 **Holographic photopolymers: a sustainable design**
M. Ortuño, E. Fernández, A. Márquez, S. Gallego, C. Neipp, A. Beléndez, I. Pascual, Universidad de Alicante (ES)
- P_004 **Trade-offs to obtain phase-only modulation with a twisted nematic liquid crystal display**
A. Márquez, S. Gallego, D. Méndez, M. L. Álvarez, E. Fernández, M. Ortuño, C. Neipp, A. Beléndez, I. Pascual, Universidad de Alicante (ES)
- P_005 **Analysis of two anamorphic optical effects affecting the modulation diffraction efficiency of liquid crystal displays**
A. Márquez, Univ. de Alicante (ES); I. Moreno, Universidad Miguel Hernández (ES); C. Lemmi, Universidad de Buenos Aires (AR); J. Campos, M. J. Yzuel, Universidad Autónoma de Barcelona (ES)
- P_006 **Analysis of holographic lenses in PVA/acrylamide photopolymer**
C. García, J. D. Rodríguez, E. Fernández, V. Camps and I. Pascual, Universidad de Alicante (ES)

Registration

The registration for this EOS Conference includes admission to all conferences of the World of Photonics Congress 2007 and to the Laser 2007 exhibition. Please use the registration fax form (see next page) or register through the secure EOS online shop.

→ www.myeos.org/shop

+++ The deadline for early-bird registration is 30 April 2007. +++

More information

Travel and accommodation

Munich is situated in the centre of Europe and can be reached in the shortest possible time thanks to the excellent infrastructure.

More information you will find at the website of the World of Photonics Congress in the menu "getting there and accommodation".

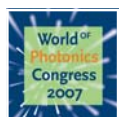
→ www.photonics-congress.com

Invitation letters

If you need an invitation letter, please send an email with your complete address to Pamela Klages in the EOS Office (klages@myeos.org).

Contact

European Optical Society (EOS)
Silke Kramprich
Event & Account Management
Hollerithallee 8
D-30419 Hannover
Tel.: +49-511-2788-117
Fax: +49-511-2788-119
munich@myeos.org
www.myeos.org/munich



This EOS Conference is a part of the
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Cooperating organizations

SPIE Europe



Competence Networks for
Optical Technologies

