

Welcome to ICOOPMA 2010, Budapest!

On Monday August 16, Mark Kuzyk's Plenary Lecture at ICOOPMA 2010 in Budapest was interrupted by a lightening strike that resulted in a region-wide power failure. » Click here to get this presentation.



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We would like to welcome all of experts and attendees from different countries in the world to ICOOPMA 2010, which will be held on August 15th-20th, 2010 in Budapest, Hungary. We have great honor to organize the International Conference on Optical, Optoelectronic and Photonic Materials and Applications (also known as International Conference on Optical and Optoelectronic Properties of Materials and Applications) which is the fourth in the prestigious ICOOPMA series. The first one was held in Darwin, Australia, in July 2006 and covered a wide range of materials and applications in optics, optoelectronics and photonics. The Second ICOOPMA was held in London, England, 29 July - 3 August, 2007, and the third one in Edmonton, Canada, 20-25 July, 2008. We hope to follow the best traditions of this series and provide discussions between researchers working on different classes of materials that have similar applications or have been characterized by similar techniques.

There are 307 papers accepted for presentation at ICOOPMA 2010, contributed by over 289 auhors from more than 30 countries, including Japan, United States, United Kingdom, Canada, Germany, France, Italy, Spain, Russia, Ukraine, Brazil, China, Korea, India, New Zealand and Australia. We have 6 international famous scientists and experts as plenary speakers as well as 48 invited speakers.

We extend our warmest greetings to you and hope you will have a rewarding and exciting stay in Budapest during ICOOPMA 2010.









Debreceni Egyetem

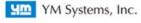
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Sandor Kugler and Sandor Kokenyesi Conference Chairs



Fourth International Conference on
Optical, Optoelectronic and Photonic Materials and Applications

August 15-20,2010 | Budapest, Hungary

About ICOOPMA

ICOOPMA 2010 is the fourth in the prestigious ICOOPMA series, an International Conference on Optical, Optoelectronic and Photonic Materials and Applications, also known as International Conference on Optical and Optoelectronic Properties of Materials and Applications.

The ICOOPMA Series arose from a need for such a conference for those researchers who sought a truly international conference that covered a wide range of materials and applications in optics, optoelectronics and photonics. One of the goals is to provide discussions between researchers working on different classes of materials that have similar applications; or have been characterized by similar techniques.

The conference has a large number of invited speakers to allow such cross-fertilization between researchers working in different classes of materials. The conference also seeks papers in interesting or novel applications, or papers that enhance material properties for applications.

The International and Local Organizing Committees have the responsibility of ensuring an in-depth scientific coverage with invited and contributed papers from various countries and in various disciplines; and ensuring an enjoyable scientific program.





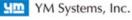
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Scope of the conference

Optical and optoelectronic properties of a wide range of materials and materials systems, such as single crystals, polycrystalline bulk and film samples, amorphous materials, glasses, organics, polymers, photonic crystals and nanostructures, quantum wells, wires and dots

- Excitonic processes
- Luminescence, Phosphors and Applications
- Photoinduced effects
- Electro-optic properties and applications
- Nonlinear optical properties and applications
- Materials for optoelectronics and photonics
- Nano-optoelectronics and Nanophotonics
- Photoconductivity
- Optically induced processes
- Optical fibers
- Materials for optical storage
- Photovoltaic materials
- Photogeneration, quantum efficiency
- Experimental techniques
- Terahertz materials, devices and techniques
- Optoelectronic and photonic devices
- Optical components for telecommunications
- Modeling and Simulations
- Applications of materials in photonics and optoelectronics







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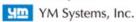


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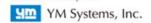


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Plenary Talks



Michael Petty

Durham University, UK

Electronic and Opto-Electronic Devices Based on Thin Organic Films

» see bio » book link



Mark Kuzyk

Washington State University, USA

Reversing the Arrow of Time via Photonics Using Polymer-Dye Interactions

» see bio



Norbert Kroo

Hungarian Academy of Sciences, Budapest, Hungary

There is light at the bottom

» see bio



Stephan Koch

Philipps University Marburg (Germany)

Microscopic simulation of semiconductor laser devices

» see bid



Hideo Hosono

Tokyo Institute of Technology (Japan)

Doping Issues for Optoelectronic Transparent Crystalline and Amorphous Oxides

» see bio



Thomas Krauss

University of St. Andrews (UK)

Enhanced light-matter interaction with photonic nanostructures

» see bio







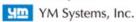
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Invited Speakers

confirmed by March 31, 2010

1. Jean-Luc Adam

Universite de Rennes (France)

Chalcogenide glass phoTOnic crystal fibers

2. Valery Barachevsky

Russian Academy of Sciences, Moscow (Russia)

Light-sensitive organic recording media for 3D optical memory

3. Sergei Baranovski

Philipps University Marburg (Germany)

Generalized Onsager-Frenkel recombination of optically generated electron-hole pairs

4. Nikolay Dmitruk

ISP NAS Ukraine, Kijev (Ukraine)

Plasmonic photovoltaics: relief-induced transparency & photocurrent enhancement by metal nanoparticles on solar cell

5. Andrew Edgar

Victoria University of Wellington (New Zealand)

New Materials and Structures for Optical Detection of Ionising Radiation

6. Stephen Elliott

University of Cambridge (UK)

Recent result of phase-change memory

7. Harold Haugen

McMaster University, Hamilton (Canada)

Femtosecond Laser Ablation and Micromachining of Semiconductors and Dielectrics

Pohang University of Science and Technology (Korea)

Multiphase Semiconductor Quantum Dots in Glasses

9. Animesh Jha and Gin Jose

University of Leeds (UK)

Rare-earth doped tellurite glass near and mid-IR fibre lasers

10. Andrew Knights

McMaster University, Hamilton (Canada)

Sub-micron Silicon Photonic Device Structures

11. Joseph Salzman

Israel Institute of Technology, Haifa (Israel)

Nano-cavities in Diamond for Quantum Electrodynamic Experiments

12 Krisztian Kohary

University of Exeter (UK)

Crystallisation kinetics of phase-change materials

13. Giancarlo Righini and Simone Berneschi

CNR, Insitute of Applied Physics, Firenze and Institute of Photonics & Nanotechnologies, Trento (Italy)

Erbium-doped glass-ceramic materials and waveguides

14. Roger Lewis

University of Wollongong (Australia)

Optical Rectification for Terahertz Generation

15. David Lockwood

NRC, Ottawa (Canada)

Self-assembled silicon-germanium nanostructures for CMOS compatible light emitters

Budapest University of Technology and Economics (Hungary)

Novel acousto-optic devices targeting applications of high standard

17. Maria Mitkova

Boise State University, Idaho (USA)

Optically induced processes in chalcogenide glasses - from visible light to x-rays







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18. Kazuo Morigaki University of Tokyo (Japan)and

Harumi Hikita Meikai University, Chiba (Japan)

Stretched Exponential Relaxation Processes in Hydrogenated Amorphous Silicon and Hydrogenated Polymorphous Silicon

19. Hirovoshi Naito

Osaka Prefecture University (Japan)

Localized-state distributions and charge carrier mobilities of organic bulk heterojunction solar cells

20. Arokia Nathan

University College London University (UK)

Advances in Nanocrystalline Silicon Devices for Optoelectronics Applications

21. Diana Nesheva

Bulgarian Academyc of Sciences, Sophia (Bugaria)

Photoluminescence from SiOx layers containing amorphous silicon nanoparticles

22. Annie Pradel

Université Montpellier (France)

IR waveguide based upon chalcogenide thick films deposited by co-thermal evaporation

23. Victor Ralchenko

Prokhorov General Physics Institute RAS (Russia)

Chemical vapor deposited (CVD) diamond - the material for optics and optoelectronics

24. Ramaswami Sammynaiken

University of Saskatchewan (Canada)

Secondary optical processes and application of x-ray excited optical luminescence in medicinei

25. Jai Singh

Charles Darwin University (Australia)

Advances in organic and polymeric light emitting devices

26. Oleh Shpotyuk

Institute of Materials of SRC, "Karat", Lviv (Ukraine)

Pseudo-self-adaptive topological phases in glassy selenides for IR photonics

27. Stephen Sweeney

University of Surrey (UK)

Novel III-V semiconductors for next generation photonic devices

28. Keiji Tanaka

Hokkaido University (Japan)

Photodeformations in As2S3: from atomic, nano, to macroscopic

29. Janis Teteris

University of Latvia, Riga (Latvia)

Photoinduced Mass Transfer in Soft Materials

30. Heinz von Seggern

University of Darmstadt (Germany)

Oxygen in CsBr:Eu, its influence on photostimulated luminescence

31. Rui Almeida

Instituto Superior Tecnico, Lisbon (Portugal)

Properties and applications of sol-gel derived active photonic crystals

32. Lluis Marsal

Universitat Rovira i Virgili (Spain)

Template-assisted fabrication and characterization of photoluminescent conducting polymer nanopillars

33. Lorenzo Pavesi and Paolo Bettotti

University of Trento (Italy)

Nanosilicon: a new platform for photonics

34. Emanuele Pelucci

Tyndall National Institute (Ireland)

Fabrication and Characteristics of Site-controlled (111)B quantum dots by high purity MOVPE

35. Robert Horvath

Research Institute for Technical Physics and Materials Science, Budapest (Hungary)

Optical waveguide biosensors for proteins and cells

36. Harry Ruda

University of Toronto (Canada)

Toward fundamental limits on the optoelectronic characteristics of single nanowires

37. Janos Volk

Research Institute for Technical Physics and Materials Science, Hungarian Academy of Sciences, Budapest (Hungary)

Highly ordered ZnO nanostructures for UV photonic devices

38. Janos Veres

PolyPhotonix (UK)

Organic semiconductors and light emitting diodes in applications

39. Darren Bagnall

University of Southampton University (UK)

Plasmonic and photonic light-trapping for photovoltaics

40. Andriy Kryuchyn

Institute for Information Recording, National Academy of Sciences of Ukraine

Application of thin films of chalcogenide vitreous semiconductors in optical recording systems

41. Peter Domaschuk

University of Sydney (Australia)

Silk Photonics: Biopolymer Optofluidics and Applications

42. Alla Reznik

Thunderbay Regional Health Sciences Centre and Lakehead University (Canada)

Recent advances in x-ray photoconductors: selected examples on PbO and a-Se

43. Yoonchan Jeong

Optoelectronics Centre, University of Southampton (UK)

Recent advances in high power optical fibers

44. Mihail Trunov

Uzhgorod National University (Ukraine)

Photoplastic effect, giant photodeformation and mass-transport phenomena in amorphous chalcogenides

45. Taiichi Otsuii

Tohuku University (Japan)

Observation of amplified stimulated terahertz emission from optically pumped graphene

46. Wieslaw Krolikowski

Australian National University (Australia)

Second and Third Harmonic Generation in Nonlinear Crystals with Random Distribution of Ferroelectric Domains

47. Peter Brodie

Advantechus, Pittsburgh (USA)

Historical and Conceptual Roots of Active Matrix Technology: Science to Technology and AMOLEDs

48. Volkan Demir

Bilkent University, Ankara (Turkey)

Förster resonance energy transfer (FRET) enhanced white LEDs using semiconductor quantum dot nanophosphors

49. Mahi Singh

University of Western Ontario (Canada)

The study of optoelectronic nanoscale devices made from polaritonic nanowires

50 Geza Mark

MFA Research Institute for Technical Physics and Materials Science, Budapest (Hungary)

Ordered and disordered biological and biomimetic photonic nanoarchitectures

51. Nobuyoshi Koshida

Graduate School of Engineering, Tokyo University of A&T, Koganei, Tokyo (Japan)

Photonic and Related Applications of Quantum-sized Nanosilicon

52. Osamu Wada

Kobe University (Japan)

Quantum Dot Photonic Devices for Ultrafast Signal Transmission and Processing Systems

53. Q. Y. Zhano

South China University of Technology (China)

Broadband sensitization of near infrared emission through energy transfer from transition metal to rare-earth ions in LiYbMo2O8 phosphors



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Proceedings

Presented papers will be refereed and accepted ones will be published in a special issue of the journal **Physica Status Solidi A and C** (Wiley-VCH, Germany) within 8 months. The Proceedings will be edited by Guest Editors.

Manuscripts

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