2013 Organic Photonics + Electronics

SPIE Optics + Photonics
Call for Papers

Location
San Diego Convention Center
San Diego, California, USA

Conferences & Courses
25–29 August 2013

Exhibition
27–29 August 2013

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- Organic Materials
- Liquid Crystals
- OLEDs
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- OTFTs
- Organic Semiconductors

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GREEN PHOTONICS
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SPIE Optics + Photonics is a leading conference on green photonics technologies such as energy, sustainability, conservation, and environmental monitoring.
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Optical Processes in Organic Materials and Nanostructures II (OP210)

Conference Chair: Manfred Eich, Technische Univ. Hamburg-Harburg (Germany)
Conference Co-Chairs: Jean-Michel Nunzi, Queen’s Univ. (Canada); Rachel Jakubiak, Air Force Research Lab. (United States)

Program Committee: Kevin D. Belfield, Univ. of Central Florida (United States); Antao Chen, Univ. of Washington (United States); Koen Clays, Katholieke Univ. Leuven (Belgium); Dean R. Evans, Air Force Research Lab (United States); Alain F. Fort, Institut de Physique et Chimie des Matériaux de Strasbourg (France); Theodore G. Goodson III, Univ. of Michigan (United States); François Kajzar, Polytechnical Univ. of Bucharest (Romania); Mark G. Kuzyk, Washington State Univ. (United States); Charles Y. C. Lee, Air Force Office of Scientific Research (United States); Kwang-Sup Lee, Hannam Univ. (Korea, Republic of); Geoffrey A. Lindsay, Naval Air Warfare Ctr. Aircraft Div. (United States); Aristides Marcano, Delaware State Univ. (United States); Robert A. Norwood, College of Optical Sciences, The Univ. of Arizona (United States); André P. Persoons, Katholieke Univ. Leuven (Belgium); Joy E. Rogers-Haley, Air Force Research Lab. (United States); Jayan Thomas, Univ. of Central Florida (United States)

Highlights
- Joint session with Organic Light Emitting Materials and Devices XVI (OP212) on Organic-based Lasers
- Joint session with Plasmonics: Metallic Nanoarchitectures and Their Optical Properties X (OP104) on Organic Plasmonic Hybrid Materials
- Addition of Holographic Organic Materials and Nanostructures
- theoretical understanding of the mechanisms leading to the linear and nonlinear optical properties of organics
- electro-optic, elasto-optic, magneto-optic measurements, and device characterization
- frequency conversion, higher harmonic generation, sum frequency generation, optical rectification, optical parametric oscillators and optical parametric amplification.

Organic-based lasers
- organic gain media, stimulated emission
- microcavity design, wavelength tuning
- pulsed or cw operation
- electrical or optical pumping.

Plasmon enhancement
- field concentration for nonlinear and linear optics
- plasmonically enhanced emission, surface enhanced Raman scattering
- surface plasmon polariton coupling, Fano resonances
- plasmon resonance energy transfer.

Organically functionalized and nanostructured materials
- functional coupling between inorganic and organic materials; nanoparticles; graphene
- photonic crystals, photonic band gap materials
- self-organized and self-assembled photonic structures
- photopolymerized micro- and nanostructures
- electro-optical materials, space charge fields.

Holographic materials
- photopolymers, organic photorefractive materials, multifunctional polymers, polymer nanocomposites, dye-doped LC polymers, polymer dispersed liquid crystalline materials, photopolymerization, photoisomerization processes
- 3D patterning, holographic recording and recovery, polarization holography, multiphoton processes
- birefringence and electro-optic properties, photovoltaic effects, charge transport and trapping
- optical data storage and image processing, wave guiding and wavefront correction, laser-based ultrasound detection.

Materials and Devices XVI (OP212)
on Organic-based Lasers

- waveguiding, photoreactions, gain, magneto-optical effects, or charge generation. Effects of the light-matter interactions may result in harmonic generation, holographic patterning, multiphoton absorption, second- and third-order NLO effects, charge transport, or photopolymerization. Issues such as the development of processing conditions, device-related research, and emerging applications are also welcome.

Session topics include, but are not be limited to:
Nonlinear optical materials and applications
- design and synthesis of new optical molecules and polymers, key structure-property relationships
- dynamics of light-matter interactions
- materials for NLO imaging and photodynamic therapy, medical diagnostics, and treatment
- nonlinear optical device design and fabrication, optical limiters

Materials of interest include organic and hybrid materials that interact with electromagnetic radiation to induce nonlinear optical phenomena, waveguiding, photoreactions, gain, magneto-optical effects, or charge generation. Effects of the light-matter interactions may result in harmonic generation, holographic patterning, multiphoton absorption, second- and third-order NLO effects, charge transport, or photopolymerization. Issues such as the development of processing conditions, device-related research, and emerging applications are also welcome.

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Liquid crystals in their various mesophases are technologically important electro-optic materials, as they possess many unique and useful physical and optical properties. They are now widely used in various optoelectronic display, beam/image, and optical information processing systems. Liquid crystals also possess extraordinarily large nonlinear optical responses, which are now finding an ever increasing usage in practical devices and systems ranging in response times from sub picosecond to seconds, covering a wide spectral range from near UV to infrared. In recent years, innovation in nano fabrication and development of plasmonic nanostructures have also led to the emergence of liquid crystalline meta materials that possess new unique functionalities and properties that hold high promises for applications in advanced optical and photonic devices/systems.

This conference provides a forum for presentations of research results on all aspects of liquid crystal material and optical sciences and technologies. The emphasis is on new, novel, or unique liquid crystalline materials, optical properties and phenomena, and their applications in display, information, and image processing systems, electro-optics and nonlinear optics.

Papers are solicited from the following and related topics:

- new liquid crystalline materials, soft matters and complex fluids, possessing large and broadband birefringence, ferroelectricity, chirality and other characteristics suitable for advanced electro-optical applications
- new optical and electro-optical processes and phenomena of fundamental or applied significance
- display, holography, storage, and switching materials, processes, and devices
- liquid crystal incorporating nano particulate and nano structures; tunable plasmonic or metamaterials
- nonlinear optics: materials, phenomena, and applications.
Call for Papers

Organic Light Emitting Materials and Devices XVII (OP212)

Conference Chair: Franky So, Univ. of Florida (United States)
Conference Co-Chair: Chihaya Adachi, Kyushu Univ. (Japan)

Program Committee: Malte C. Gather, Technische Univ. Dresden (Germany); Hisao Ishii, Chiba Univ. (Japan); Hironori Kaji, Kyoto Univ. (Japan); Jang-Joo Kim, Seoul National Univ. (Korea, Republic of); Jaewon Lee, LG Display (Korea, Republic of); Mathew K. Mathai, Plextronics, Inc. (United States); Jongwook Park, The Catholic Univ. of Korea (Korea, Republic of); Yong-Jin Pu, Yamagata Univ. (Japan); For D. W. Samuel, Univ. of St. Andrews (United Kingdom); Joseph Shinar, Ames Lab. (United States); Richard J. Wilson, Cambridge Display Technology Ltd. (United Kingdom)

This conference centers on the science and technology of organic light emitting materials and devices for flat panel displays, solid state lighting and lasers. Applications range from handheld displays to large flat panel screens, large-area distributed light sources, and next-generation organic lasers. The scope of the conference will cover the following areas:

• highly efficient molecular and polymeric light emitters and devices
• stable devices based on novel materials or device processing
• efficient white emitting materials and devices for solid state lighting
• approaches for enhancing device light extraction efficiency
• microcavity effects for solid state lighting and lasers
• new materials and concepts for solid state lasers
• device failure mechanisms and durability studies
• novel approaches, patterning, and driving schemes for full color displays and solid state lighting
• processes for large area fabrication of flat panel displays
• novel substrates and electrodes for flexible devices
• encapsulation techniques for flexible devices
• organic light emitting transistors
• physics of carrier injection and transport.

Highlights:
• Joint Session on Organic Solid State Lighting
• Joint Session on Carrier Injection and Transport
• Joint Session on Light Emitting Organic Thin Film Transistors
• Special Session on Solid State Lasers based on Organic Thin Films, Molecular, and Photonic Crystals.

Manuscripts for the conference proceedings will be peer reviewed.

Organic Photonics + Electronics Best Student Paper Awards

Awards will be given to the three best student papers within this symposium. Manuscripts will be peer-reviewed and judged on scientific merit, technical impact, and overall quality of the work by a committee of expert scientists in the field. The three winners will be announced and presented with their awards during the plenary of the Symposium on Organic Photonics + Electronics.

Critical Dates

Abstract Due Date: 11 February 2013
Author Notification: The contact author will be notified of abstract acceptance by email no later than 22 April 2013
Manuscript Due Date: 29 July 2013

Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as scheduled, whether it is an oral or poster presentation, and submit a full manuscript by the deadline.
Organic Photovoltaics XIV (OP213)

Conference Chair: Zakya H. Kafafi, National Science Foundation (United States)
Conference Co-Chairs: Christoph J. Brabec, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany); Paul A. Lane, U.S. Naval Research Lab. (United States)

Program Committee: Paul L. Burn, The Univ. of Queensland (Australia); René A. J. Janssen, Technische Univ. Eindhoven (Netherlands); Bernard Kippelen, Georgia Institute of Technology (United States); Ana Flávia Nogueira, Univ. Estadual de Campinas (Brazil); Barry P. Rand, IMEC (Belgium); Ifor D. W. Samuel, Univ. of St. Andrews (United Kingdom); Sean E. Shaheen, Univ. of Denver (United States); Jiangeng Xue, The Univ. of Hong Kong (China); Teketel Yohannes, Addis Ababa Univ. (Ethiopia)

This conference centers on the science and technology of next-generation organic photovoltaics (OPVs). Focus is on high-performance light-harvesting and carrier transporting materials, highly efficient and stable OPVs, device physics including interfaces, morphology, carrier generation, and transport. New techniques for fabrication, encapsulation, and printing of solar cells on large-area flexible substrates will be highlighted in a special session. The aim of this meeting is to bring together chemists, engineers, material scientists, physicists, and technologists, to report on the state-of-the-art of organic photovoltaics and discuss the next-generation solar cells.

The scope of the conference will cover but is not limited to the following areas:

- molecular and polymeric organic photovoltaics (OPVs)
- solid state dye-sensitized (photoelectrochemical) solar cells
- hybrid organic/inorganic nanostructures
- interpenetrating polymer and donor/acceptor networks
- tandem and multi color solar cells
- plasmonic and photonic structures
- new electron donors/hole transporters
- new electron acceptors/transporters
- new electrode and flexible substrate materials
- primary processes, carrier generation, and transport
- the roles of interfaces and morphology in OPVs
- new techniques for fabrication, encapsulation, and printing of solar cells
- large-area fabrication of solar cells and modules
- stability, lifetime, and reliability of solar cells and modules
- future prospects for organic solar cell technology.

Highlights:

- A special session on the processing of solar cells on large-area flexible substrates
- Joint sessions on the reliability of photovoltaics and nanoscale technologies
- Joint session on plasmonics
- Panel discussion on the impact of and future of organic photovoltaics with industry representatives.

Manuscripts for the conference proceedings will be peer reviewed.

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Awards will be given to the three best student papers within this symposium. Manuscripts will be peer reviewed and judged on scientific merit, technical impact, and overall quality of the work by a committee of expert scientists in the field. The three winners will be announced and presented with their awards during the plenary of the Symposium on Organic Photonics + Electronics.

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Call for Papers

Organic Field-Effect Transistors XII (OP215)

Conference Chairs: Zhenan Bao, Stanford Univ. (United States); Iain McCulloch, Imperial College London (United Kingdom)

The impressive improvement in the performance of organic thin film field-effect transistors (OTFTs) during the last two decades, coupled with the processability advantages offered by organic materials, has attracted the interest of the optoelectronics industry and has opened the way for practical, broad-impact applications of such devices. OTFTs are based on various small organic molecules, conjugated polymers and oligomers, or organic-inorganic hybrids. Potential applications for organic semiconductors are currently aimed at large-area electronics, which almost always involve intermolecular transport mechanisms. They include flexible active-matrix displays with OTFT backplanes, e-paper, low-cost and low-end printable electronic circuits, devices such as RFID tags and smart cards, and sensors. Knowledge accumulated from the study of these organic materials and devices will in the future aid the design, development, and fabrication of molecular and polymeric devices based on intramolecular transport.

This conference is intended to provide a platform for discussions and exchanges between experts in the field of organic transistors in an effort to assess the state-of-the-art in this field of research and reflect on the predominant vision(s) for the future of organic transistors.

The scope of the conference will cover research topics spanning from basic chemistry and physics of organic semiconductors to their applications in electronic devices and circuits. Contributed papers are solicited concerning, but not limited to, the following areas:

- organic semiconductor design, synthesis, processing, and characterization
- organic semiconductor growth and morphology
- dielectric materials
- printable electrode materials
- printing and patterning methods
- OTFT device physics, modeling, geometric design, and characterization
- ambipolar TFTs
- n-channel TFTs
- single-crystal devices
- charge injection and transport properties
- integrated circuits
- chemical and biological sensors
- flexible OTFT display backplanes
- other OTFT applications
- device reliability, stability, and degradation
- self-assembly processes in OTFTs
- molecular devices
- integration of OTFTs with other components
- organic light emitting transistors
- organic memory devices
- stretchable electronic materials and devices.

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The growing activity and progress in organic electronics, together with the need for versatile, lightweight, compact, inexpensive, and field-deployable chemical and biological sensors, has prompted the development of OFET- and OLED-based sensors, organic semiconductor and surface plasmon resonance sensors, organic semiconductor-based photodetectors, and sensitive organic materials for sensing applications. Such applications include industrial, environmental, food and beverage, medical, biosensing and homeland security. Transistor-, OLED-, and other organic semiconductor-based sensing technologies, and those based on carbon nanotubes (CNTs) and graphene are promising for fast, simultaneous detection of multiple analytes utilizing sensor micro/nano arrays. Continued research and development efforts are needed to further improve sensor performance, and consequently, manufacturability.

At the same time, the use of organic semiconductors in bioelectronics is also attracting increasing interest. One example is the demonstration of ion pumps based on conducting polymers, which have been used to control cell growth. A second example is conducting polymer electrodes developed for medical implants. A better understanding of the interface between organic semiconductors and living tissue will lead to the design of better biosensor concepts.

This conference will present recent progress in the field of organic electronics-based (bio)chemical sensing and explore the obvious synergies between the efforts to develop better sensors and to better understand and control the interface between organic semiconductors and biology.

The conference will also present progress in the field of organic electronics in sensors for physical parameters as well as flexible/stretchable and large-scale sensors and actuators.
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- Qualifying student papers will be peer-reviewed and judged on scientific merit, technical impact, and overall quality of the work by a committee of expert scientists in the field.
- To be eligible, you must be a student without a doctoral degree, listed as an author on an accepted paper within Organic Photonics + Electronics, submit your manuscript online by 29 July 2013, have conducted the majority of the work to be presented, and be the presenter of the paper.
- To be considered, send self-nominations via email to Jen Lowell (JenL@spie.org) no later than 26 July 2013. Include your paper number, paper title, and presenting student author. Submit your manuscript online at www.spie.org/myaccount by 29 July 2013.
- The winner will be announced during the Organic Photonics + Electronics Plenary Session.

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Wonderful event, we were pleasantly surprised by how good it was. We were pleased by both the quantity and the quality.

—Scott Orr, Qioptiq

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General Information

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SPIE Optics+Photonics 2013 will be held at the San Diego Convention Center, 111 West Harbor Dr., San Diego, CA 92101 and at the San Diego Marriott Hotel & Marina located adjacent to the Convention Center at 333 West Harbor Dr.

Technical Program
Available April 2013
The comprehensive Advance Technical Program for this symposium will list conferences, paper titles, and authors in order of presentation, and an outline of all planned special events at www.spie.org/op

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All participants, including invited speakers, contributed speakers, session chairs, co-chairs, and committee members, must pay a registration fee. Pricing and registration details will be available in April 2013 at www.spie.org/op

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Grants
A limited amount of contingency student travel grants will be awarded based on need. Grant applications can be found in the Resources for Students area of www.SPIE.org, under the Student Travel Grants section. Applications must be received no later than 17 June 2013. Eligible applicants must present an accepted paper at this meeting. Offer applies to undergraduate/graduate students who are enrolled full time and have not yet received their PhD.

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• Please also submit a 100-word text summary suitable for early release. If accepted, this summary text will be published prior to the meeting in the online or printed programs promoting the conference.
• Only original material should be submitted.
• Abstracts should contain enough detail to clearly convey the approach and the results of the research.
• Commercial papers, papers with no new research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this conference.
• Please do not submit the same, or similar, abstracts to multiple conferences.

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