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- Liquid Crystals
- OLEDs
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Call for Papers

Light Manipulating Organic Materials and Devices (OP210)

Conference Chair: Jean-Michel Nunzi, Queen’s Univ. (Canada)
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Progress in organic photonic materials coupled with micro and nanoscale processing technologies is enabling innovative applications in optical processing, communication, memory, sensing and actuation. The technological success of the research relies on interdisciplinary expertise in complementary fields such as chemistry, condensed matter physics, optics, and electrical engineering. The basic focus of this conference is the manipulation of light beams with organic materials and the reciprocal effect, which is the manipulation of organic materials with light beams. The topic is the convergence of twenty years of research and development on Organic Nonlinear Optics. Materials of interest include organic and hybrid organic-inorganic materials that induce transient or permanent nonlinear optical behavior upon interacting with electromagnetic radiation.

Session topics include, but are not limited to:

Nonlinear Optical, Photoactive, and Holographic Materials and Applications
- design and synthesis of novel optical materials, structure-property relationships
- theoretical engineering of the linear and nonlinear optical properties of organics
- dynamics of light-matter interactions
- materials for NLO imaging, photodynamic therapy, laser diagnosis and treatment
- linear and nonlinear optical device design and fabrication, electro-optic modulators, optical limiters
- electro-optic, elasto-optic, magneto-optic measurements and device characterization
- frequency conversion, high harmonic generation, sum frequency generation, optical rectification, optical parametric oscillation and optical parametric amplification in organic materials
- organic photorefractive materials
- self-organized and self-assembled photonic structures
- photopolymerized micro-, nanostructures and waveguides
- photo-mechanics, light triggered and light-actuated materials
- photo-patterning, holographic recording and recovery, multiphoton processes
- applications in optical data storage and image processing, waveguiding and wavefront correction, laser-based ultrasound detection.

Best Paper Awards
Awards will be given to the three best student papers in the Symposium on Organic Photonics + Electronics. The papers will be peer-reviewed and judged on the 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 session of the Organic Photonics + Electronics symposium. Self-nominate when you submit your abstract; see requirements on p. 10.

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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 subpicosecond to seconds, covering a wide spectral range from near UV to infrared. In recent years, innovation in nanofabrication and development of plasmonic nanostructures have also led to the emergence of liquid crystalline metamaterials 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 nanoparticulate and nanostructures; tunable plasmonic or metamaterials
- nonlinear optics: materials, phenomena, and applications.

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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
- thermally activated delayed fluorescent materials
- 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
- 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.

Authors are invited to submit an original manuscript to The Journal of Photonics for Energy (JPE), (http://spie.org/JPE), which is now covered by all major indexes and Journal Citation Reports.

Best Paper Awards

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Report your results to conference participants and the global research community in a format that suits you. Choose from these two publication options (both options are included in SPIE Digital Library):

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2. Summary (3 full pages) accompanied by audio+slides from presentation.

See p. 10 for more information.

Critical Dates

**Abstract Due Date:** 3 February 2014

**Author Notification:** The contact author will be notified of abstract acceptance by email no later than 14 April 2014

**Manuscript Due Date:** 21 July 2014

**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 Photonics and Electronics

Organic Photovoltaics XV (OP213)

Conference Chair: Zakya H. Kafafi, National Science Foundation, ret (United States)
Conference Co-Chairs: Paul A. Lane, U.S. Naval Research Lab. (United States); Ifor D. W. Samuel, Univ. of St. Andrews (United Kingdom)

Program Committee: Natalie Banerji, Ecole Polytechnique Fédérale de Lausanne (Switzerland); Christoph J. Brabec, Friedrich-Alexander-Univ. Erlangen-Nürnberg (Germany); Paul L. Burn, The Univ. of Queensland (Australia); Antonio F. Facchetti, Polyera Corp. (United States); René A. J. Janssen, Technische Univ. Eindhoven (Netherlands); Bernard Kippelen, Georgia Institute of Technology (United States); Ana F. Nogueira, Univ. of Campinas (Brazil); Dana C. Olson, National Renewable Energy Lab. (United States); Barry P. Rand, Princeton Univ. (United States); Sean E. Shaheen, Univ. of Colorado at Boulder (United States); Jianguo Xue, Univ. of Florida (United States); He Yan, Hong Kong Univ. of Science and Technology (Hong Kong, China); Yang Yang, Univ. of California, Los Angeles (United States); Teketel Yohannes, Addis Ababa Univ. (Ethiopia)

This conference centers on the science and technology of next-generation organic photovoltaics (OPVs). The focus is on high-performance light-harvesting and carrier transporting materials, highly efficient and stable OPVs, device physics including interfaces, film structure (morphology), photophysics of carrier generation, and transport. The conference also covers new techniques for fabrication, encapsulation, and printing of solar cells on large-area flexible substrates. The aim of this meeting is to bring together scientists, engineers and technologists from multiple disciplines to report on the fundamental aspects that affect device operation, on the state-of-the-art performance of organic photovoltaics, and to discuss next-generation solar cells.

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

- molecular, macromolecular, and polymeric OPVs
- dye-sensitized and hybrid organic/inorganic (e.g. perovskite) solar cells
- tandem and multilayer solar cells
- plasmonic and photonic structures
- light management in OPV devices
- new hole transport materials
- new electron transport materials
- new electrode and flexible substrate materials
- physics of exciton diffusion, charge carrier generation, transport, and recombination
- the roles of interfaces and film structure (morphology) in OPVs
- the roles and use of contact (e.g. metal oxide) layers 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 high performance OPV materials
- A special session on scaling-up OPVs to larger area
- A special session on light management in OPVs
- A joint session on exciton diffusion, charge generation, transport, and recombination
- A joint session on hybrid structures and the role of metal oxide layers.

Manuscripts for the conference proceedings will be peer-reviewed.

Authors are invited to submit an original manuscript to The Journal of Photonics for Energy (JPE), (http://spie.org/JPE), which is now covered by all major indexes and Journal Citation Reports.

Best Paper Awards

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See p. 10 for more information.
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
- plastic electronics.

A potential joint session is planned with the Conference on Physical Chemistry of Interfaces and Nanomaterials.

Best Paper Awards

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Author Notification: The contact author will be notified of abstract acceptance by email no later than 14 April 2014
Manuscript Due Date: 21 July 2014

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.
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-, 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.

Organic bioelectronics is also attracting increasing interest. The field explores chemical, ionic, and optoelectronic attributes of organic materials and their incorporation in bioelectronic devices. Examples of devices include ion pumps based on conducting polymers, which have been used to control cell growth and conducting polymer electrodes for medical implants. A better understanding of the organic/living tissue interface, which will lead to the design of better biosensor concepts, remains a challenge.

At the same time, the advantages of AMOLED displays with their bright colors, high contrast ratios, and wide viewing angles resulted in growing interest in organic image sensors. Such visible and high resolution IR image sensors are promising to be of large area and low cost, though continued research and development is essential.

This conference will present recent progress in the fields of organic electronics-based (bio) chemical sensors, image sensors, sensors for physical parameters, as well as flexible/stretchable and large-scale sensors and actuators. The conference will also present efforts to better understand and control the interface between organic semiconductors and biological systems.

Papers related (but not limited) to the following topics are solicited:

- organic and hybrid organic/inorganic transistors for chemical and biosensing
- organic semiconductors in electrochemical, strain, pressure, and temperature sensors
- OLEDs and organic semiconductor lasers for analytical applications
- organic light emitting transistors (OLETs) for chemical and biosensing
- organic semiconductors and surface plasmon resonance (SPR)-based sensors
- porphyrin-based sensors
- flexible electronics for large-area sensors and actuators
- array technologies in organic electronics: microfluidics, nanoscale, and lab-on-a-chip for multianalyte detection
- (multicolor) OLED arrays for absorption measurements
- organic semiconductor-based photodiodes, optical filters, and integrated sensors/filters/photodetectors
- conformable and stretchable electronics
- IR detectors (organic up-conversion devices)
- organic image sensors
- bio-inspired systems and biomaterials in organic electronics for biotechnology and medical applications
- conducting polymers in biosensors; luminescent conjugated polymers in disease detection
- ion pumps and other devices made using organic semiconductors
- cell growth on organic semiconductors
- carbon nanomaterials-based sensors and biological applications of CNTs and graphene
- synthesis, characterization, and optimization of sensor materials
- sensor manufacturing.

Best Paper Awards

Awards will be given to the three best student papers in the Symposium on Organic Photonics + Electronics. The papers will be peer-reviewed and judged on the 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 session of the Organic Photonics + Electronics symposium. Self-nominate when you submit your abstract; see requirements on p. 10.
Organic Photonics + Electronics
Best Student Paper Awards

We are pleased to announce that a cash prize will be awarded to the three best student papers in this symposium. 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. The winner will be announced during the Organic Photonics + Electronics Plenary Session.

To be eligible, you must:
- be a full-time student without a doctoral degree
- be listed as an author on an accepted paper within Organic Photonics + Electronics
- conduct the majority of the work to be presented
- submit your manuscript online at http://spie.org/myaccount by 21 July 2014
- be the presenter of the paper.

To be self-nominate, you must:
- submit your abstract online
- select “Yes” when asked if you are a full-time student
- select yourself as the speaker.

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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

Venue
SPIE Optics + Photonics 2014 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 2014
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

Courses
Take advantage of educational opportunities by attending an SPIE course. Complete descriptions of related courses will be available in the Advance Technical Program. To suggest a course topic or instructor, email johnc@spie.org

Registration
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 2014 at www.spie.org/op

Student Travel 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 9 June 2014. 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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• Attend the meeting.
• Make the presentation as scheduled in the program.
• Submit a full-length manuscript (6 pages minimum) for publication in the SPIE Digital Library. Proceedings of SPIE, and CD-ROM compilations. See page 10 for alternative publication options for OP212 and OP213.
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• To ensure a high-quality conference, all submissions will be assessed by the Conference Chair/Editor for technical merit and suitability of content.
• Conference Chair/Editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
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