Call for Papers

San Diego Convention Center
San Diego, California, USA

Conferences & Courses
28 August–1 September 2016

Exhibition
30 August–1 September 2016

Submit Abstracts by 8 February 2016
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Conferences address the latest developments in OLEDs, OFETs, OPVs, organic sensors and bioelectronics, organic materials, liquid crystals, and printed memory and circuits.

Call for Papers.

**DATES**

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**LOCATION**

San Diego Convention Center
San Diego, California, USA

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- Present to experts in the field
- Publish your results internationally
- Gain experience in scientific communication
- Connect with researchers from other disciplines
- See where your work fits into global optics and photonics research
Light Manipulating Organic Materials and Devices III (OP210)

Conference Chair: Joy E. Haley, Air Force Research Lab. (USA)

Conference Co-Chairs: Jon A. Schuller, Univ. of California, Santa Barbara (USA); Manfred Eich, Technische Univ. Hamburg-Harburg (Germany); Jean-Michel Nunzi, Queen’s Univ. (Canada)

Program Committee: Dean R. Evans, Air Force Research Lab. (USA); Mark G. Kuzyk, Washington State Univ. (USA); Charles Y. C. Lee, Air Force Office of Scientific Research (USA); Zouheir Sekkat, Univ. Mohammed V (Morocco); Matthew Y. Sfeir, Brookhaven National Lab. (USA); Jayan Thomas, CREOL, The College of Optics and Photonics, Univ. of Central Florida (USA); Naoto Tsutsumi, Kyoto Institute of Technology (Japan)

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.

Session topics include, but are not limited to:
• dynamics of light-matter interactions and ultrafast spectroscopy
• nonlinear optical materials, processes, and applications
• linear and nonlinear optical device design and fabrication
• electro-optic, elasto-optic, and 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 and applications
• photopolymerized micro-, nanostructures, and waveguides
• photo-mechanics, light triggered, and light-actuated materials
• enhanced light-matter interactions, organic-plasmonic and -dielectric hybrids
• applications in optical data storage and image processing, waveguiding and wavefront correction, laser-based ultrasound detection
• microcavity polaritons and excitons
• infrared properties, devices, and materials.

BEST STUDENT 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 their scientific merit, their technical and broader impact, and their overall quality 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 Symposium on Organic Photonics + Electronics. Self-nominate when you submit your abstract; see requirements, p. 9.
CALL FOR PAPERS

Liquid Crystals XX (OP211)

Conference Chair: Iam Choon Khoo, The Pennsylvania State Univ. (USA)

Program Committee: Timothy J. Bunning, Air Force Research Lab. (USA); Shaw-Horning Chen, Univ. of Rochester (USA); Neil Collings, Two Trees Photonics Ltd. (United Kingdom); Jean-Pierre Huignard, Jphopto (France); Tomiki Ikeda, Chuo Univ. (Japan); Malgosia Kaczmarek, Univ. of Southampton (United Kingdom); Oleg D. Lavrentovich, Kent State Univ. (USA); Sin-Doo Lee, Seoul National Univ. (Republic of); Tsung-Hsien Lin, National Sun Yat-Sen Univ. (Taiwan); Francesco Simoni, Univ. Politecnica delle Marche (Italy); Nelson V. Tabiryan, BEAM Co. (USA); David M. Walba, Univ. of Colorado at Boulder (USA); Shin-Tson Wu, CREOL, The College of Optics and Photonics, Univ. of Central Florida (USA)

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
• advance LC display science and technologies, holography, storage, and switching materials, processes, and devices
• liquid crystal incorporating nanoparticulate and nanostructures; tunable plasmonic or metamaterials
• nonlinear optics: materials, phenomena, and applications.

IMPORTANT DATES

Abstracts Due: 8 FEBRUARY 2016
Acceptance Notification: 25 APRIL 2016
The contact author will be notified of abstract acceptance by email.
Manuscript Due Date: 1 AUGUST 2016
Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as scheduled, where it is an oral or poster presentation, and submit a full manuscript by the deadline.
Organic Light Emitting Materials and Devices XX (OP212)

Conference Chair: Franky So, North Carolina State Univ. (USA)
Conference Co-Chairs: Chihaya Adachi, Kyushu Univ. (Japan); Jang-Joo Kim, Seoul National Univ. (Korea, Republic of)
Program Committee: Wolfgang Brütting, Univ. Augsburg (Germany); Malte C. Gather, Univ. of St. Andrews (United Kingdom); Hisao Ishii, Chiba Univ. (Japan); Hironori Kajii, Kyoto Univ. (Japan); Jian Li, Arizona State Univ. (USA); Mathew K. Mathai, Apple Inc. (USA); Jongwook Park, The Catholic Univ. of Korea (Republic of); Yong-Jin Pu, Yamagata Univ. (Japan); Sebastian Reineke, TU Dresden (Germany); Ifor D. W. Samuel, Univ. of St. Andrews (United Kingdom); Joseph Shinar, Iowa State Univ. (USA)

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
- physics of carrier injection, transport, and recombination
- 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
- light emitting OTFTs

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, which is now covered by all major indexes and Journal Citation Reports.

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Organic Photovoltaics XVII (OP213)

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

This conference celebrated its 16th anniversary and the International Year of Light (IYL) in 2015. It expanded its scope to include the science and technology of not only next-generation organic photovoltaics (OPVs) but also of hybrid organic/inorganic photovoltaics (HOPVs). The focus of this conference will be on high-performance light-harvesting and carrier transporting materials, highly efficient and stable OPVs and HOPVs, device physics including interfaces, film structure (morphology), photophysics of carrier generation, and transport. The conference will also cover 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 and discuss the fundamental issues that affect device operation, including efficiency and long term stability. The “state-of-the-art” performance of OPVs and HOPVs, and next-generation solar cells, and their applications in future technologies will be the main core of this conference.

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

• molecular, macromolecular, and polymeric OPVs
• hybrid organic/inorganic photovoltaics HOPVs
• perovskite-based solar cells
• solid-state dye-sensitized solar cells
• tandem and multi-absorber solar cells
• plasmonic and nanophotonic structures
• light manipulation/management approaches
• new hole transport materials
• new electron transport materials
• new electrode materials and nanostructures
• new flexible substrate materials
• physics of exciton diffusion, charge carrier generation, transport, and recombination
• organic/inorganic interfaces in OPVs
• film structure and morphology in OPVs
• novel contact (e.g. metal oxide) layers and nanostructures
• new techniques for fabrication, encapsulation, and printing of solar cells
• large-area processing and fabrication of solar modules
• stability, lifetime, and reliability of modules
• future prospects for organic and hybrid organic-inorganic solar cell technology.

HIGHLIGHTS:

• A special session on Hybrid Organic-Inorganic Photovoltaics (HOPVs)
• A special session on Perovskite-based Solar Cells
• A special session on Light Management, Nanophotonics, and Plasmonics in OPVs
• A joint session with Physical Chemistry of Interfaces and Nanomaterials

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BEST STUDENT 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 their scientific merit, their technical and broader impact, and their overall quality 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 Symposium on Organic Photonics + Electronics. Self-nominate when you submit your abstract; see requirements, p. 9.
Organic Thin Film Field-Effect Transistors (OTFTs) have seen impressive improvements in performance over the last two decades, with organic materials offering processability advantages over inorganic materials. OTFTs are based on various small organic molecules, conjugated polymers and oligomers, blends of such materials, 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 scientists with different backgrounds, all 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
- fundamental processes in OTFTs.
CALL FOR PAPERS

Organic Sensors and Bioelectronics IX (OP216)

Conference Chairs: Ioannis Kymissis, Columbia Univ. (USA); Ruth Shinar, Iowa State Univ. (USA); Luisa Torsi, Univ. degli Studi di Bari (Italy)

Program Committee: Magnus Berggren, Linköping Univ. (Sweden); Annalisa Bonfiglio, Univ. degli Studi di Cagliari (Italy); Fabio Cicoira, Ecole Polytechnique de Montréal (Canada); Alon Gorodetsky, Univ. of California, Irvine (USA); Emíl J. W. List-Kratochvíl, Technische Univ. Graz (Austria); George G. Malliaras, École Nationale Supérieure des Mines de Saint-Étienne (France); Paul Meredith, The Univ. of Queensland (Australia); Roisin M. Owens, École Nationale Supérieure des Mines de Saint-Étienne (France); Manijeh Razeghi, Northwestern Univ. (USA); Ifor D. W. Samuel, Univ. of St. Andrews (United Kingdom); Franky So, Univ. of Florida (USA)

The growing activity and progress in organic and printable electronics, together with the need for on-chip integrable and inexpensive detecting systems, have prompted the development of easily processable organic field-effect transistor (OFET)- and light-emitting diode (OLED)-based sensors, photodetectors, and bioelectronic devices. Solution or easily processable two-dimensional metal oxides, carbon-based, and hybrid organic/inorganic 2D and 3D materials have proven useful as active layers in chemical and biological transducers. Novel technological approaches that allow the integration of functional bio-receptors into device structures are also critically important to endow such devices with recognition capabilities. Fast and even simultaneous detection of multiple analytes utilizing micro/nano array systems will open a plethora of novel applications in key areas such as clinical analysis, environment monitoring, food and beverage safety, and homeland security. The assessment of the analytical performance level of sensing devices is strategic for achieving on-chip reliable quantitative analysis. Continued research and development efforts are needed to further improve sensors’ performance level and low cost manufacturability.

Organic and printable 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.

This conference will focus on progress in chemical, biological, and physical sensors and actuators, including image sensors, flexible/stretchable and large-scale devices, from carbon-based, solution processable metal-oxides, and hybrid organic/inorganic materials. Organic bioelectronic devices, including neural interfaces, diagnostics, drug delivery devices, and tissue engineering concepts using electrical activation/control of cells will be discussed.

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

• organic and hybrid organic/inorganic transistors for chemo- and biosensing
• carbon-based nanomaterials, including graphene, for sensors and bioelectronic applications
• solution processable ZnO and other metal oxides for electronic sensing applications
• bio-inspired systems in organic electronics for biotechnology and medical applications
• OLEDs and organic semiconductor lasers for analytical applications
• organic light emitting transistors (OLETs) for chemo- and biosensing
• multicolor-tunable OLED arrays for absorption measurements in analytical applications
• luminescent conjugated polymers in disease detection
• organic semiconductors in plasmon-based sensors
• organic and perovskite-based photodetectors in analytical applications
• organic biocompatible materials in applications such as cell growth, tissue engineering, and drug delivery
• synthesis, characterization, and optimization of sensor materials
• flexible electronics for the manufacturing of large-area sensors and actuators
• conformable and stretchable electronics for sensing applications
• array technologies in organic electronics: microfluidics, nanoscale, and lab-on-a-chip for multiple analyte detection.

HIGHLIGHTS:
• A joint session with the conference on Organic Thin Film Transistors (OTFTs)
• A joint session with the conference on Biosensing and Nanomedicine
Printed Memory and Circuits II (OP217)

Conference Chair: Emil J. W. List Kratochvil, Humboldt-Universität zu Berlin (Germany)
Program Committee: Wen-Chang Chen, National Taiwan Univ. (Taiwan); Dago M. de Leeuw, Max-Planck-Institut für Polymerforschung (Germany); Jan Genoe, IMEC (Belgium); Norbert Koch, Humboldt-Universität zu Berlin (Germany); Tae-Woo Lee, Pohang Univ. of Science and Technology (Korea, Republic of); Ronald Österbacka, Åbo Akademi Univ. (Finland); Tsuyoshi Sekitani, Osaka Univ. (Japan); Barbara Stadlober, JOANNEUM RESEARCH Forschungsgesellschaft mbH (Austria); Arul Lenus Roy Vellaisamy, City Univ. of Hong Kong (Hong Kong, China); Fei Zeng, Tsinghua Univ. (China)

This conference will cover a timely focused topic in the symposium on “Organic Photonics + Electronics” that is centered on the science and technology of next generation memory and logic devices based on organic, hybrid organic/inorganic, and inorganic materials, which are predominately fabricated by printing technologies. The conference will span a broad spectrum from the fundamental science related to novel materials development and processing to addressing issues related to organic and inorganic surfaces and interfaces, to device fabrication and integration using novel printing methods. The aim of the meeting is to gather an interdisciplinary audience and researchers from the chemistry, materials science, bioelectronics, physics, applied science and engineering communities working on basic and applied research motivated by newly emerging technologies on printed memory and logic.

In this year’s conference a special emphasis will be given to organize joint sessions on neuromorphic and bioelectronics applications jointly with the “Organic Semiconductors in Sensors and Bioelectronics” conference, as well on printed organic and hybrid TFT technology with the “Organic Field-Effect Transistors” conference.

The scope of the conference will cover but is not limited to the following areas:
• organic, hybrid organic/inorganic, and inorganic materials based memory devices
• memristor, ferroelectric, and charging based device concepts
• switching mechanisms in memristors
• interface energetics in hybrid memory and bioelectronic materials and devices
• crossbar addressing and memory arrays
• smart memory devices
• neuromorphic and bioelectronics applications
• organic, hybrid organic/inorganic, and inorganic materials based logic devices
• inverters, logic gates, ring-oscillators, AD converters
• RFID applications and smart integrated systems
• emerging materials for printed electronic applications
• photonic curing processes in printed electronic applications
• large-area S2S and R2R fabrication techniques
• high resolution S2S and R2R fabrication techniques

MANUSCRIPTS FOR THE CONFERENCE PROCEEDINGS WILL BE PEER REVIEWED.

IMPORTANT DATES
Abstracts Due: 8 FEBRUARY 2016
Acceptance Notification: 25 APRIL 2016
The contact author will be notified of abstract acceptance by email.
Manuscript Due Date: 1 AUGUST 2016

Please Note: Submissions imply the intent of at least one author to register, attend the symposium, present the paper as scheduled, where it is an oral or poster presentation, and submit a full manuscript by the deadline.
2016 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 1 August 2016
• be the presenter of the paper.
To 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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General Information

VENUE
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REGISTRATION
SPIE Optics + Photonics registration will be available April 2016.
All participants, including invited speakers, contributed speakers, session chairs, co-chairs, and committee members, must pay a registration fee. Authors, coauthors, program committee members, and session chairs are accorded a reduced symposium registration fee.
Fee information for conferences, courses, a registration form, and technical and general information will be available on the SPIE website in April 2016.

HOTEL INFORMATION
Opening of the hotel reservation process for SPIE Optics + Photonics is scheduled for April 2016. SPIE will arrange special discounted hotel rates for SPIE conference attendees.
The website will be kept current with any updates.

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 will be accepted from 25 April 2016 to 20 June 2016. 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.

CLEARANCE INFORMATION
If government and/or company clearance is required to present and publish your presentation, start the process now to ensure that you receive clearance if your paper is accepted.

IMPORTANT NEWS FOR ALL VISITORS FROM OUTSIDE THE UNITED STATES
Find important requirements for visiting the United States on the SPIE Optics + Photonics website. There are steps that ALL visitors to the United States need to follow.
Online at: www.spie.org/visa

ABOUT SAN DIEGO
San Diego is California’s second largest city and the United States’ seventh largest. Bordered by Mexico, the Pacific Ocean, the Anza-Borrego Desert and the Laguna Mountains, and Los Angeles 2 hours north, San Diego offers immense options for business and pleasure. For more information about San Diego, sightseeing, shopping and restaurants, visit their website at: www.sandiego.org

GREEN PHOTONICS
Watch for this icon next to conferences discussing innovative ways to help our planet.
SPIE Optics + Photonics is a leading conference on green photonics technologies such as energy, sustainability, conservation, and environmental monitoring.
By submitting an abstract, I agree to the following conditions:

AN AUTHOR OR COAUTHOR (INCLUDING KEYNOTE, INVITED, ORAL, AND POSTER PRESENTERS) WILL:

- Register at the reduced author registration rate (current SPIE Members receive an additional discount on the registration fee).
- Attend the meeting.
- Make the presentation as scheduled in the program.
- Submit a manuscript (6 pages minimum, 20 pages maximum) for publication in Proceedings of SPIE in the SPIE Digital Library.
- Obtain funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations.
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.

Submit an abstract and summary online at: http://spie.org/organicscall:

- Once you choose a conference, click “Submit an abstract” from the conference call for papers.
- Please submit a 250-word text abstract for technical review purposes that is suitable for publication. SPIE is authorized to circulate your abstract to conference committee members for review and selection purposes.
- 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.
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- 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.

REVIEW, NOTIFICATION, AND PROGRAM PLACEMENT INFORMATION

- 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.
- The contact author will receive notification of acceptance and presentation details by e-mail the week of 25 April 2016.
- Final placement in an oral or poster session is subject to the Chairs’ discretion.

PROCEEDINGS OF SPIE AND SPIE DIGITAL LIBRARY INFORMATION

- Manuscript instructions are available from the “For Authors/Presenters” link on the conference website.
- Conference Chair/Editors may require manuscript revision before approving publication and reserve the right to reject for publication any paper that does not meet acceptable standards for a scientific publication. Conference Chair/Editors’ decisions on whether to allow publication of a manuscript is final.
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—Brock Koren, Business Development Manager, Zygo Corporation

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DATES
Conferences & Courses
28 August–1 September 2016
Exhibition
30 August–1 September 2016

· 180-Company exhibition
· 40 Special and technical events
· 3200 Presentations
· 35 Courses
· 90 Student Chapters

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