### Registration & Speaker Check-in Hours: 11:00 AM – 6:00 PM in the Grand Foyer

#### 12:00 PM - 3:30 PM Short Course: Silicon Photonics Fabrication Workshop

**Aventine DEF**

**Introduction to Silicon Photonics Device Design and Fabrication**

This short course teaches participants how to design passive silicon photonic devices using analytic and advanced numerical techniques. Participant designs will be fabricated by a state-of-the-art rapid-prototyping 100 keV electron-beam lithography facility (University of Washington, USA). All designs will be tested using an automated optical probe station and the data provided to the participants. Participants will then analyze their experimental data.

Chair: Lukas Chrostowski, *University of British Columbia, Canada*

#### 4:30 PM - 6:30 PM “Hot Papers” & “Meet the Editors”

**Aventine C**

**Session followed by refreshments**

This new event will offer the opportunity to meet and hear from Carmen Menoni (Editor of IEEE Photonics Journal) and Seb Savory (Editor of IEEE Photonics Technology Letters) about the mission and focus of their journals, and will involve presentations, by the respective authors, of recent ‘highlight’ papers from these journals, as selected by the journal editorial boards.

Chair: Martin Dawson, Institute of Photonics - *University of Strathclyde, Scotland*

#### 6:30 PM – 7:30 PM Panel on Metamaterials

**Aventine B**

At a time when new materials, devices, applications and regimes of operation for Metamaterials are emerging rapidly, this panel discussion will allow the community to take stock of where the field is heading and discuss the challenges and opportunities ahead. This panel is organized by Alexandra Boltasseva, *Purdue University, USA*.

**Panelists:**
- Andrea Alu, *The University of Texas at Austin, USA*
- Nader Engheta, *University of Pennsylvania, USA*
- Nanfang Yu, *Columbia University, USA*
- Zubin Jacob, *University of Alberta, Canada*
### Registration & Speaker Check-in Hours: 7:30 AM – 5:00 PM in the Grand Foyer

***Post-Deadline Paper Submissions Due by 9:00 AM***

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<tbody>
<tr>
<td>8:30-10:00am MA1 BIO 1 Advances in Biophotonics A. Ellerbee</td>
<td>8:30-10:00am MB1 DISL 1 Novel LEDs P. Servati</td>
<td>8:30-10:00am MC1 OI 1 Waveguides and Devices for Optical Interconnects I O. Yilmaz</td>
<td>8:30-10:00am MD1 ONS 1 PON and Data Networks M. Xia</td>
<td>8:30-10:00am ME1 SL 1 VCSEL I D. Bimberg</td>
<td>8:30-10:00am MF1 OMND 1 Frequency Combs and Non Linear Effects in Microresonators A. Maslov</td>
<td>8:30-10:00am MG1 OC 1 Visible Light &amp; Other Systems I. White</td>
<td>8:30-10:00am MH1 NANO TUTORIAL Nader Engheta E. Cubukcu</td>
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### COFFEE BREAK 10:00 AM - 10:30 AM Grand Foyer

### 12:00 PM – 1:30 PM LUNCH (on own)

### COFFEE BREAK 3:00 PM -3:30 PM Grand Foyer

### 3:30 PM – 5:00 PM Plenary Session I – MI4

**Vicino Ballroom**

**Session Chair: Susumu Noda, Kyoto University, Japan**

**3:30 PM - 4:15 PM Hybrid Silicon Photonic Integrated Circuits**, John Bowers, University of California Santa Barbara, USA

**4:15 PM – 5:00 PM Single Molecule Imaging and Nanometry**, Toshio Yanagida, Osaka University, Japan

### 5:00 PM – 6:00 PM Awards Ceremony

**6:00 PM-7:30 PM WELCOME RECEPTION Aventine ABCG**

**Session Chair: Susumu Noda, Kyoto University, Japan**
### Registration & Speaker Check-in Hours: 8:00 AM – 5:00 PM in the Grand Foyer

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<tr>
<td>8:30-10:00am TuA1 PSSI 1 Advancements in Avalanche Photodiodes J. Campbell</td>
<td>8:30-10:15am TuB1 OI 3 Systems and Architectures for Optical Interconnects M. Haney</td>
<td>8:30-10:00am TuC1 MWP 1 Advanced Microwave Photonics Components B. Jacobs</td>
<td>8:30-10:00am TuD1 SS HPDL 1 Special Symposium on High Power Diode Lasers and Systems I B. Schmidt</td>
<td>8:30-10:00am TuE1 SL 3 DFB, DBR and short pulses G. Eisenstein</td>
<td>8:30-10:00AM TuF1 ONS 4 Transmission and Related Effects O. Liboiron-Ladouceur</td>
<td>8:30-10:00am TuG1 OC 4 100G and Emerging Transmission Technologies L. Oxenlowe</td>
<td>8:30-10:15am TuH1 NANO 3 Nanophotonics Devices II A. Yanik</td>
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#### COFFEE BREAK 10:00 AM - 10:30 AM Grand Foyer

| 10:30-12:00pm TuA2 PSSI 2 3D Imaging Techniques J. David | 10:30-11:45am TuB2 OI 4 Integration of Sources for Optical Interconnects E. Johnson | 10:30-12:00pm TuC2 MWP 2 Photonic Microwave Signal Processing V. Urick | 10:30-11:45am TuD2 SS HPDL 2 Special Symposium on High Power Diode Lasers and Systems II J. Marsh | 10:30-12:00pm TuE2 SL 4 Short Pulses and Amplification TBD | 10:30-11:45am TuF2 PIP 3 III-V Integration L. Verslegers | 10:30-12:00pm TuG2 ONS 4 High Capacity Transmission Technology N. Alic | 10:30-12:00pm TuH2 NANO 4 Plasmonic Metamaterials II A. Yanik |

#### LUNCH (on own) 12:00 PM – 1:30 PM

| 1:30-3:00pm TuA3 PSSI TUTORIAL Elias Towe E. Duerr | 1:30-3:00pm TuB3 OI 5 Modulators and Detectors for Optical Interconnects J. Rosenberg | 1:30-3:00pm TuC3 MWP 3 Integrated Microwave Photonics C. Lim | 1:30-3:00pm TuD3 SS HPDL 3 Special Symposium on High Power Diode Lasers and Systems III P. Leisher | 1:30-3:00pm TuE3 SL 5 Si Photons, Polariton Lasers G. Eisenstein | 1:30-3:00pm TuF3 OMND 4 High Q-Factor Microcavities H. Tureci | 1:30-2:45pm TuG3 OC 6 All-Optical Signal Processing B. Kuo | 1:30-3:00pm TuH3 NANO 5 Nanophotonic Devices III M. Jarrahi |

#### COFFEE BREAK 3:00 PM -3:30 PM Grand Foyer

#### 3:30 PM – 5:00 PM Plenary Session II - TuI4

**Vicino Ballroom**

**Session Chair: Susumu Noda, Kyoto University, Japan**

**3:30 - 4:15pm Exploiting Quantum Coherence for New Technologies: Timing, Navigation and Sensors**, Sir Peter Knight FRS, Imperial College London, UK

**4:15 – 5:00pm Cold-Mechanics to Stable-Microwaves: the Future of Optical Microcavity Research**, Kerry Vahala, California Institute of Technology, USA

#### 5:30 PM – 6:30 PM WOMEN IN PHOTONICS RECEPTION

**Barcino – Gallery I**

**Session Chair: Dalma Novak, Pharad LLC., USA**
### Registration & Speaker Check-in Hours: 8:00 AM – 5:00 PM in the Grand Foyer

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<tr>
<td>WA1 PSSI 3 Emerging Photodetector Technologies</td>
<td>WB1 NLUO 1 Chaotic Photonics and Solitons R. Morandotti</td>
<td>WC1 MWP 4 Photonic Microwave Generation A. Wiberg</td>
<td>WD1 SS-Sol 1 Special Symposium: Optoelectronic Devices for Solar Energy Harvesting I M. Modestino</td>
<td>WE1 OFT 1 Optical Fiber Transmission K. Oh</td>
<td>WF1 SS OM 1 Special Symposium on Optomechanics I M. Li</td>
<td>8G1 HPIS 1 Ultrashort High Intensity Laser S. Kubodera</td>
<td>8F1 OMND 5 Micro/Nano Lasers Y. Xiao</td>
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**COFFEE BREAK 10:00 AM - 10:30 AM Grand Foyer**

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**12:00 PM – 1:30 PM LUNCH (on own)**

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<tr>
<td>WA3 PSSI 5 Interferometric and Temporal Imaging S. Gunapala</td>
<td>WB3 NLUO 3 The Metamaterial and Isolators Y. Ding</td>
<td>WC3 PMM 1 Photonic Materials and Circuits D. Guney</td>
<td>WD3 SL 6 Narrow Linewidth and Hot Topics S. Olivier</td>
<td>WE3 OFT 3 Non-Silica Based Fiber and Components S. Huang</td>
<td>WF3 OMND 6 Photonic Crystal Nanometric Devices H. Tureci</td>
<td>WG3 OC TUTORIAL Fabio Pittala C. Xie</td>
<td>WH3 NANO 7 Quantum Nanophotonics E. Cubukcu</td>
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**COFFEE BREAK 3:00 PM -3:30 PM Grand Foyer**

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**5:30 PM – 6:30 PM STUDENT POSTER COMPETITION**

Vicino Ballroom

Session Chair: Thomas Clark, JHU Applied Laboratory, USA
THURSDAY, 16 OCTOBER 2014

Registration & Speaker Check-in Hours: 8:00 AM – 10:00 AM in the Grand Foyer

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<tbody>
<tr>
<td>8:30-10:00am ThA1 PSSI 7 Novel Optical Technologies I. Ishimaru</td>
<td>8:30-10:00am ThB1 NLUO 5 Graphene: Carrier Dynamics &amp; Nonlinear Photonics A. Fratalocchi</td>
<td>8:30-10:00am ThC1 PMM 3 Metamaterials and Photonic Crystals N. Yu</td>
<td>8:30-9:45am ThD1 SL 8 Selection of Best P. Smowton</td>
<td>8:30-10:15am ThE1 OFT 5 Novel Optical Fibers and Components X. Chen</td>
<td>8:30-10:00am ThF1 OMND 8 Microcavity and Grating Devices A. Matsko</td>
<td>8:30-10:00am ThG1 OC 8 Modulation &amp; Detection II B. Puttman</td>
<td>8:30-9:45am ThH1 NANO 9 Nanophotonic Devices IV H. Demir</td>
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COFFEE BREAK 10:00 AM - 10:30 AM Grand Foyer

10:30 AM - 12:00 PM CLOSING CEREMONY

POST-DEADLINE SESSION
BEST STUDENT PAPER AND POSTER AWARDS
Vicino Ballroom
Session Chair: Thomas Clark, JHU Applied Laboratory, USA

SEE YOU IN 2015!
IEEE PHOTONICS CONFERENCE
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