Tentative Program

8th International Conference and Exhibition on
Lasers, Optics & Photonics
November 15 -17, 2017    Las Vegas, USA

Exemplifying the Prominence of Lasers, Optics and Photonics in today’s world

Conference Secretariat
One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA
Tel: +1-702-508-5197 Ext: 8066 and +1-702-508-5200 Ext: 8017
Email: optics@physicsconferences.org
http://optics.conferenceseries.com/
John G. Ekerdt earned his PhD from the University of California, Berkeley in 1979. He is currently Associate Dean for Research in Engineering and the Dick Rothwell Endowed Chair in Chemical Engineering at the University of Texas at Austin. He has more than 300 refereed publications, two books and seven U.S. patents. Current research interests focus on the surface, growth and materials chemistry of metal, dielectric and perovskite films and nanostructures by developing and understanding the reactions and chemistry that control nucleation and growth of films and nanostructures.

Dr. Priyalal S. Wijewarnasuriya received his Ph.D. in Physics from the University of Illinois at Chicago. He was a member of technical Staff at the Rockwell Scientific Center, CA and was dedicated to demonstration of novel, large-format infrared focal plane arrays for tactical and strategic military applications as well as for astronomy using HgCdTe alloy. He is currently leading the development of the next generation of infrared materials and devices at the U.S. Army Research Laboratory (ARL), Adelphi, MD. He is the Team Leader of “II-VI Materials and Devices Team”. Dr. Wijewarnasuriya has authored or co-authored over 100 papers in the open technical literature, four book chapters and has presented his work at numerous national and international conferences. Currently, Dr. Wijewarnasuriya serves as a member of the organizing Committee for two international conferences in the infrared technology area.

Dr. Frantz received his Ph.D. in Optical Sciences in 2004 from the Optical Sciences Center at The University of Arizona. He has been a research physicist at NRL since 2004 where his research has focused on microstructured optical surfaces and novel thin film materials. He established and manages a vacuum deposition cluster system facility in NRL’s Optical Sciences Division used for a variety of projects including the fabrication of advanced, multi-layer thin film devices for optical applications.

John G. Ekerdt
Associate Dean for Research
University of Texas at Austin,
USA

Simon is focused on optoelectronic at uSherbrooke and is President at Azastra, a corporation supplying laser power converter products based on the new VEHSA technology. He has an h-index of 45 and is the inventor of over 30 patents. He raised over $20M of private and venture capital funding and also obtained numerous research grants. He led Cyrium to become a manufacturer of one of the highest performance multijunction III-V solar cells and led Azastra to manufacture the highest performance phototransducer products. As an entrepreneur he cumulates over 25 years of experience in Optoelectronics and Photonics while developing and commercializing numerous devices and products in the industry at Azastra, Aton, Cyrium, Alcatel Optronics, Kymata, and also in research labs at uSherbrooke, NRC, and UCSB.

Simon Fafard
President at Azastra Opto Inc. and Prof. at uSherbrooke, Canada

Priyalal Stephen
Team Leader of II-VI Materials & Devices,
U.S. Army Research Laboratory, USA

Dr. Frantz
Researcher
U.S. Naval Research Laboratory, USA

Hideyoshi Horimai has received his PhD from The University of Tokyo. In 1998 he has invented the original holographic storage technology, so-called Collinear Holography, its disk format was approved at world first International Standard as “HVD” in 2007. His other developments were Holographic 3D-Image Printer System, 360-degree 3D Display, Digital Holographic Microscope, and Holographic Window for BIPV. Publishes dissertation more than 100 (invited paper over 20), maximum citation was 216 times, this paper ranked No. 8th in the recent 10 years citations Top15 in OSA, the cooperation to write books 7, public patent more than 300 in the world.

Priyalal Stephen
Team Leader of II-VI Materials & Devices,
U.S. Army Research Laboratory, USA

Hideyoshi Horimai
Chief Technology Officer
Egarim Co. Ltd., Japan

Jesse A. Frantz
Researcher
U.S. Naval Research Laboratory, USA

Simon Fafard
President at Azastra Opto Inc. and Prof. at uSherbrooke, Canada
Dr. Douglas R McCarter, Dhc, is the Technical Integrator of McCarter Machine & Technology Inc., founded in 1981. McCarter’s patented and proprietary silicon processes achievements were documented by published technical papers and over 50 oral presentations. In turn, McCarter has won many awards, mentioned in Forbes.com, Kiplinger Letter, Entrepenuer.com, Nasa Tech Briefs, Missile Defense Briefs Open and Classified, and recognized as the current world expert in precision silicon components. McCarter has served as member of editorial staff of Advanced Optical Technology, in Munich Germany since 2012. In 2016, Dr. Babin, Congressman District 37 and leader of Nasa Committee endorsed McCarter’s development of McCarter Silicon Space Systems. In addition to over 3000 hours of Technical Schools, McCarter has been directly mentored by the late Frank Anthony, Bell Labs and past 10 years Roger Paquin Perk & Elmer retired Materials Expert.

Douglas McCarter
Vice President
McCarter Machine Inc., USA

Dr. Ching Eng Jason
Director
IHPC, A*STAR, Singapore

Manijeh Razeghi is the Walter P. Murphy Professor of Electrical Engineering at Northwestern University and Director of the Center for Quantum Devices, which she founded in 1991 after a successful 10-year career as the Director of Exploratory Materials at Thomson-CSF, France. She is one of the leading scientists in the field of semiconductor science and technology, having pioneered the development and implementation of major modern epitaxial techniques. Her current research interest is in nanoscale optoelectronic quantum devices from deep-UV up to terahertz. At Northwestern University she has commercialized aluminum-free pump lasers, developed type-II superlattices for next generation infrared imagers (an area in which she holds key patents), and currently holds most of the quantum cascade lasers records for high power and tunability. She has authored 18 books, 31 books chapters, and more than 1000 journal publications. She is editor, associate, and board member of many journals, including Nano Science and Nano technology. Her awards include the IBM Europe Science and Technology Prize, the SWE Lifetime Achievement Award, the R.F. Bunshah Award, the IBM faculty award, Jan Czochralski Gold Medal, and many best paper awards. She is a fellow of SWE, SPIE, IEC, OSA, APS, IOP, IEEE, and MRS.

Manijeh Razeghi
Director, Center for Quantum Devices Northwestern University, USA

Nikolay Vasilyev has completed his PhD in 1985 at Physical Faculty of Leningrad State University (now Saint-Petersburg State University, SPbGU). He has continued his postdoctoral studies and researches at Scientific Research Institute of Physics of the University. Working knowledge and experience are in three dimensional optical holography, second harmonic generation, electro-optical effect and shutters, strong excitation in semiconductors, time-resolved optical spectroscopy of semiconductors, and diluted magnetic semiconductors. He is a Senior Researcher in Solid State Physics Department at SPbGU. He has about 50 publications, with 20 being published in reputed journals.

Nikolay Vasilyev
Researcher
Saint-Petersburg State University, Russia

Kasezawa graduated Shizuoka University in 1984. And he managed many companies of the technical system. He is an inventor of Holo-Window.

2012 he applied a patent of the hologram research and development “stereoimage projection device”. 2013 he applied a patent of the hologram research and development “collecting mechanism, light of the sun electrical generator, window structure and windowpane”.

He won the Best Paper Award with IWH (International Workshop on Holography and Related Technologies) 2015 Okinawa and also IWH2016 Taiwan. His article “Holographic window for solar power generation” was appeared in the Optical Review (2016).

Toshihiro Kasezawa
CEO
Egarim Co. Ltd., Japan

Ching Eng Jason PNG completed his PhD at the age of 30 years from Surrey University and MBA from INSEAD and Tsinghua. He is the director of Electronics & Photonics Department, Institute of High Performance Computing (IHPC) A*STAR, a premier organization. He published more than 90 papers in reputed journals, conferences, books, and book chapters. He is President and Founding Chair for URSI Singapore Committee, SPIE Photonics West Committee member, and also serves as topic editor for Frontiers in Physics and Taylor CRC Press. Funded by INSEAD, Singapore Government and investors, Jason started up A*STAR’s first silicon photonics spin-off company Optic2connect offering end-to-end solutions for telecoms and datacenters.

Dr Ching Eng Jason
Director
IHPC, A*STAR, Singapore

Manijeh Razeghi
### Program at a Glance

**Day 1 (November 15, Wednesday)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Morning Sessions</th>
<th>Evening Sessions</th>
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<tbody>
<tr>
<td>08.00-09.00</td>
<td><strong>Welcome Session</strong></td>
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<tr>
<td>09.00-09.15</td>
<td><em>Inaugural Address</em></td>
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<tr>
<td>09.15-09.45</td>
<td><strong>Least of 3 Keynote/Plenary Talks</strong></td>
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<tr>
<td>09.45-10.15</td>
<td><em>Keynote/Plenary Talk 1</em></td>
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<tr>
<td>10.15-10.45</td>
<td><em>Keynote/Plenary Talk 2</em></td>
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<tr>
<td>11.00-12.40</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>11.40-13.00</td>
<td><strong>Lunch Break 12.40-13.30</strong></td>
<td>6 Speakers (20 Mins Each)</td>
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<tr>
<td>13.00-14.45</td>
<td><strong>Coffee/Tea Break 13.00-14.00 (Networking)</strong></td>
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<tr>
<td>14.45-16.15</td>
<td><strong>Poster Sessions</strong></td>
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<tr>
<td>16.15-17.45</td>
<td>5 Speakers (20 Mins Each)</td>
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**Day 2 (November 16, Thursday)**

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<tr>
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<tbody>
<tr>
<td>09.00-10.40</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>10.40-10.55</td>
<td><strong>Coffee/Tea Break 10.40-10.55 (Networking)</strong></td>
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<td>10.55-12.35</td>
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**Program Last Updated on August 01, 2016**
Featured Speakers

Keynote Opportunities Available

**Title:** Anti-Reflection Surface Structures on Optics as an Alternative to Thin Film Anti-Reflection Coatings  
**Speaker:** Jesse A. Frantz, *U.S. Naval Research Laboratory, USA*

**Title:** Development of High-Operating Long Wave HgCdTe Devices at Army Research Laboratory  
**Speaker:** Priyalal Stephen Wijewarnasuriya, *U.S. Army Research Laboratory, USA*

**Title:** Study of Low Density Sites on Silicon Dioxide Surfaces using Fluorescent Probes and the Role of these Sites in Nucleation of Semiconductor and Metal Films  
**Speaker:** John G. Ekerdt, *University of Texas at Austin, USA*

**Title:** Unconventional Semiconductors For Advanced III-Nitride Photonics  
**Speaker:** Can Bayram, *University of Illinois at Urbana-Champaign, USA*

**Title:** Laser power conversion efficiencies exceeding 60%, featuring strong photon recycling, in ultra-thin GaAs n/p junctions based on high-photovoltage vertical epitaxial heterostructure architectures  
**Speaker:** Simon Fafard, *Université de Sherbrooke and Azastra Opto Inc, Canada*

**Title:** Broadband Nonlinear THz Spectroscopy Using Gas Plasma THz Source  
**Speaker:** Masashi Yamaguchi, *Rensselaer Polytechnic Institute, USA*

**Title:** Bridging Nano and Macro: Multimaterial Multifunctional Fibers  
**Speaker:** Xiaoting Jia, *Virginia Tech, USA*

**Title:** High Power/Energy Optics  
**Speaker:** Apollonov Victor Victorovich, *A.M. Prokhorov General physics institute RAS, Russia*

**Title:** The Effects of Laser Characteristics on Energy Generation in Particles on a Surface  
**Speaker:** Peng-Sheng Wei, *National Sun Yat-Sen University, Taiwan*

**Title:** Quantum Laser Interactions with Select Silicate Specimens  
**Speaker:** Michelle R. Stem, *Complete Consulting Services, USA*

**Title:** Wide Band Gap III-Nitride Semiconductor Devices  
**Speaker:** Ryan McClintock, *Northwestern University, USA*

**Title:** New Frontiers in Monolithic, Tunable, Mid-Infrared Lasers  
**Speaker:** Steven Slivken, *Northwestern University, USA*

**Title:** High Quality Nitride Materials (AlN and AlGaN) on Si and Sapphire Substrates and UV-LED Applications  
**Speaker:** Ilkay Demir, *Cumhuriyet University, Turkey*

**Title:** Characterization of Optically Pumped Semiconductor Lasers in Pulsed Mode  
**Speaker:** Yanbo Bai, *Coherent Inc., USA*

**Title:** Split-and-Delay Units for Soft and Hard X-Ray Free-Electron Lasers  
**Speaker:** Sebastian Roling, *Westfälische Wilhelms-Universität Munster, Germany*

**Title:** Room-temperature-protonation-driven optoelectronic device with water-gated thin-film-transistor structure  
**Speaker:** Takayoshi Katase, *Tokyo Institute of Technology, Japan*

**Title:** Transparent and conductive materials for opto-electronic applications  
**Speaker:** Bellet Daniel, *Grenoble INP, France*
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<td>Vasilev Nikolai, Saint-Petersburg State University, Russia</td>
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<td>Wei Zhou, Virginia Tech, USA</td>
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Title: The MOCVD overgrowth studies of III-Nitride on Bragg grating for distributed feedback lasers
   Junze Li, Microsystem & Terahertz Research Center, China

Title: Glass optics replication in a digitalized production environment
   Holger Kreilkamp, Fraunhofer-Institute for Production Technology IPT, Germany

Title: Improvement of Optical Transmission Capacity by Data Compression and Amplitude/Phase/Frequency 3-Dimensional Modulation
   Dong Sun Seo, Myongji University, South Korea

Title: Nano-patterned Hyperbolic Metamaterials for High-frequency Nanowire Quantum Dots Single Photon Source
   Feiliang Chen, Microsystem and Terahertz Research Center, China

Title: Recent developments on the internal quantum efficiency for III-N light-emitting diodes
   Wengang Bi, Hebei University of Technology, China

Title: Highly Conductive Free-Standing Reduced Graphene Oxide Thin Films for Fast Photoelectric Devices
   He Junhui, Technical Institute of Physics and Chemistry, CAS, China

Title: Mechanical concepts in Laser based additive manufacture
   Wu Chenwu, Chinese Academy of Sciences, China

Title: Nanostructured Photodetectors: From Ultraviolet to Terahertz
   Xiaosheng Fang, Fudan University, China

Title: Optimization of Boron Isotopes Separation by the Specific Choice of Laser Pulse Shape within the Laser Assisted Retarded Condensation(SILARC) Method
   Konstantin Lyakhov, Jeju National University, South Korea

Title: Three dimensional Luneburg lens at optical frequencies achieved by laser direct writing technique
   Xuan-Ming Duan, Chinese Academy of Sciences, China

Title: Simulation of thermal reaction of biological tissues to laser-induced fluorescence and photodynamic therapy
   Alexey Seteikin, Amur State University, Russia

Title: Commercializing Potassium Terbium Fluoride, KTF (KTb3F10) Faraday Crystals for High Laser Power Optical Isolator Applications
   Wolfgang Schlichting, Northrop Grumman SYNOPTICS, USA

Title: Capturing spin dynamics with laser-based tabletop soft x-ray sources
   Patrick Grychtol, European XFEL, Germany

Title: Simulation of perfect absorber at visible frequencies using TiN-based refractory plasmonic metamaterials
   Mo Li, Microsystem & Terahertz Research Center, China

Title: Recent developments on the internal quantum efficiency for III-N light-emitting diodes
   Wengang Bi, Hebei University of Technology, China

Title: Doped ZnO Nanostructures for M-IR Plasmonics
   Mohamed Taha, Ecole Centrale de Lyon, France

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Title: Nanostructured Photodetectors: From Ultraviolet to Terahertz
   Xiaosheng Fang, Fudan University, China

Title: Bi-stage time evolution of nano-morphology on inductively coupled plasma etched fused silica surface caused by surface morphological transformation
   Xiaolong Jiang, China Academy of Engineering Physics, China
Title: Fiber-optics Reflectance Spectroscopy for the direct identification of natural red and purple dyes on textiles  
Edgar Casanova González, Universidad Nacional Autónoma de México, Mexico

Title: Mode-Division Multiplexed Transmission over Few-Mode Fibers  
Filipe M. Ferreira, Aston University, UK

Title: The structure analysis of flower-like microparticles by confocal microscopy  
Songwen Tan, The University of Sydney, Australia

Title: Ytterbium and bismuth clusters impact on silica-based light guides optical and luminescence performances  
Evgeny Savelyev, Kotel’nikov Institute of Radioengineering and Electronics of RAS, Russia

Title: Intracellular pH Detection of Brachionus plicatilis with pMBA pH Nanosensor  
Nadiah Yousef Aldaleeli, Swansea University, United Kingdom

Title: A comparison of two 40Ca+ single ion optical clocks at 5 × 10-17  
Hua Guan, Wuhan Institute of Physics and Mathematics, China

Title: The CAOS Smart Camera – Empowering Automotive and Surveillance Imaging  
Nabeel A. Riza, University College Cork, Ireland
Title: Graphene Quantum dots loaded macrophages mediated drug delivery for imaging guided photodynamic therapy
Yong-kyu Lee, Korea National University of Transportation, South Korea

Title: Band alignment in organic light emitting diodes – on the track of thickness dependent onset voltage shifts
Maybritt Kuehn, Technische Universitaet Darmstadt, Germany

Title: Optimization of optical modulation formats for high-speed short-reach connection
Jianjun Yu, Fudan University, China

Title: Laser Technology to guide rainfall to a particular region
Thalangunam Krishnaswamy Subramaniam, Sri SaIrnam Engineering College, India

Title: Simple way of optical manipulation of particles/cells in microfluidic systems
Masahiro Motosuke, Tokyo University of Science, Japan

Title: MBE growth of InAs nanowires on Si
Hao-Hsiung Lin, National Taiwan University, Taiwan

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