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
Optics Scientific Board

Manijeh Razeghi
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Vice President McCarter Machine Inc., USA

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Professor, Florida International University, USA

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

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Professor National Sun Yat-Sen, Taiwan

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Vice President McCarter Machine Inc., USA

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Vice Director, Professor, Huazhong University of Science and Technology (HUST), China

Chao Hong Lee
Professor Sun Yat-Sen University, China

Shien-Kuei Liaw
Professor and Chair NTUST and Optoelectronic Technology Center, Taiwan
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. Dr. Priyalal S. Wijewarnasuriya has been 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.

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.

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.
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.

Dr. 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.

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.

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 “stereomage 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).

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
# Program at a Glance

## Day 1 (November 15, Wednesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Registration</th>
<th>08.00-09.00</th>
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<tbody>
<tr>
<td><strong>Session 1</strong></td>
<td>Welcome Session</td>
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<tr>
<td><strong>Session 2</strong></td>
<td>Morning Sessions</td>
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<tr>
<td><strong>Session 3</strong></td>
<td>Least of 3 Keynote/Plenary Talks</td>
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<tr>
<td></td>
<td>Panel Discussions/Group Photo</td>
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<td></td>
<td>Coffee/Tea Break 10.45-11.00 (Networking)</td>
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<td></td>
<td>11.00-12.40</td>
<td>5 Speakers (20 Mins Each)</td>
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<td><strong>Session 4</strong></td>
<td>Lunch Break 12.40-13.30</td>
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<tr>
<td><strong>Session 5</strong></td>
<td>Evening Sessions</td>
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<td><strong>Session 6</strong></td>
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<tr>
<td></td>
<td>Coffee/Tea Break 15.30-15.45 (Networking)</td>
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<td></td>
<td>15.45-17.25</td>
<td>5 Speakers (20 Mins Each)</td>
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## Day 2 (November 16, Thursday)

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>09.00-10.40</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>Coffee/Tea Break 10.40-10.55 (Networking)</td>
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<tr>
<td>10.55-12.35</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>Lunch Break 12.35-13.25</td>
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<tr>
<td>13.25-15.05</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>Poster Sessions</td>
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<tr>
<td>Coffee/Tea Break 15.05-15.20 (Networking)</td>
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<tr>
<td>15.20-17.00</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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## Day 3 (November 17, Friday)

<table>
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<tr>
<th>Time</th>
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<th>Session 2</th>
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<tr>
<td>09.00-10.40</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>Coffee/Tea Break 10.40-10.55 (Networking)</td>
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<td>10.55-12.35</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>Lunch Break 12.35-13.25</td>
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<tr>
<td>13.25-15.05</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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**Awards & Closing Ceremony**
Featured Speakers

Keynote Opportunities Available

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

Title: Development of High-Operating Long Wave HgCdTe Devices at Army Research Laboratory
Priyalal Stephen, 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
John G. Ekerdt, University of Texas at Austin, USA

Title: Unconventional Semiconductors For Advanced III-Nitride Photonics
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
Simon Fafard, Université de Sherbrooke and Azastra Opto Inc, Canada

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

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

Title: High Power/Energy Optics
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
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

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

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

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

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

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

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

Title: Room-temperature-protonation-driven optoelectronic device with water-gated thin-film-transistor structure
TAKAYOSHI KATASE, Tokyo Institute of Technology, Japan

Title: Transparent and conductive materials for opto-electronic applications
Bellet Daniel, Grenoble INP, France

Title: Semi random lasing on ZnO nanoparticles originated by laser induced breakdown
Vasilev Nikolai, Saint-Petersburg State University, Russia
Title: An Adaptive Non-Imaging Optical Method to Optimize Secondary Optics of Concentrating Solar Power Collectors  
Guangdong Zhu, National Renewable Energy Laboratory, USA

Title: W-band signal propagation in a WDM-over-OCDMA system  
Morad Khosravi Eghbal, UNIVERSITY OF TEXAS AT SAN ANTONIO, USA

Title: Nonlinearity Compensation Using Optical Phase Conjugation in Optical Fiber Transmission Systems  
Mohammad A. Z. Al-Khateeb, Aston University, UK

Title: From Nanoelectronics to Nanophotonics: Toward Integrated Nanosystems  
Wei Zhou, Virginia Tech, USA

Title: Wavefront Propagation Simulations for a Hard X-Ray Split-and-Delay Unit at the European XFEL  
Victor Kärcher, Westfälische Wilhelms-Universität Münster, Germany

Title: Nonlinearity Compensation Using Optical Phase Conjugation in Optical Fiber Transmission Systems  
Mohammad A. Z. Al-Khateeb, Aston University, UK

Title: Surface modification of PET film via a large area atmospheric pressure plasma: an optical analysis of the plasma and surface characterization of the polymer film  
Farzad Rezai, North Carolina State University, USA

Title: On-chip integrated a 3D-CMOS Si photodetector array with a fiber couplers platform for remote optical fiber monitoring  
IMAN SABRI ALIREZAEI, Institute of Micro and Sensor Systems (IMOS), Germany

Title: Novel sources and resonators for high-resolution molecular spectroscopy in the mid infrared  
Simone Borri, CNR-INO – Istituto Nazionale di Ottica, Italy

Title: Technique of Optical Frequency Comb Generation from a Bismuth-Based Harmonically Mode-Locked Fiber Laser  
Yutaka Fukuchi, Tokyo University of Science, Japan

Title: Quantum cascade Lasers for sensitive trace gas sensing applications  
Jagadeeshwari Manne, Lam Research Corporation, USA

Title: Automated optical quality assessment of photovoltaic modules  
Johannes Mario Hepp, Bavarian Center for Applied Energy Research, Germany

Title: 1mm-thick See-through Holographic RGB Illumination Unit ~ Ega-rim ~  
Hideyoshi Horimai, Egarim Co. Ltd., Japan

Title: Liquid phase growth of GaSe crystal for highly efficient THz wave generation  
Yohei Sato, Tohoku University, Japan

Title: Holographic Window for Solar Power Generation System  
Toshihiro Kasezawa, Egarim Co. Ltd., Japan

Title: Silicon photodetectors operating at 1.55 μm and 2 μm using graphene  
Maurizio Casalino, National Research Council of Italy, Italy

Title: W-band signal propagation in a WDM-over-OCDMA system  
Morad Khosravi Eghbal, UNIVERSITY OF TEXAS AT SAN ANTONIO, USA

Title: An Adaptive Non-Imaging Optical Method to Optimize Secondary Optics of Concentrating Solar Power Collectors  
Guangdong Zhu, National Renewable Energy Laboratory, USA

Title: Parity detection achieving Heisenberg limit in an SU(1,1) interferometer with coherent and squeezed vacuum input states  
Dong Li, Microsystem and Terahertz Research Center, China

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

Title: Glass optics replication in a digitalized production environment  
Holger Kreilkamp, Fraunhofer-Institute for Production Technology IPT, Germany
Title: The MOCVD overgrowth studies of III-Nitride on Bragg grating for distributed feedback lasers  
Junze Li, Microsystem & Terahertz Research Center, China

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

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: Mechanical concepts in Laser based additive manufacture  
WU CHENWU, Chinese Academy of Sciences, China

Title: Metamaterial based nanobiosensors and nanophotodetectors  
Ekmel Ozbay, Nanotechnology Research Center, Turkey

Title: Visibility Range of the Laser and LED Signaling Lights at Runway Aircraft Landing  
Gennady A. Kaloshin, Institute of Atmospheric Optics Russian Academy of Sciences, Russia

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

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

Title: Three dimensional Luneburg lens at optical frequencies achieved by laser direct writing technique  
Xuan-Ming Duan, Chinese Academy of Sciences, 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: 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: Computational Study of Forced Shear Layer Aero-Optics  
Chung-Chyi Chou, Da-Yeh University of Department of Fire and Safety, Taiwan

Title: Two-photon polymerization of high resolution 3D hydrogels for cell imaging and tissue engineering  
Mei-Ling Zheng, Chinese Academy of Sciences, China
Title: Laser Induced Breakdown for Quantitative Gas Property Measurements and Ignition  
**Hyungrok Do**, Seoul National University, South Korea

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

Title: Wound healing modulation after irradiation with a blue LED photocoagulator  
**Francesca Rossi**, Italian National Research Council, Italy

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

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

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 Universität Darmstadt, Germany
Title: Defect reduction of GaN nanorods on heterosubstrates: Behaviors of basal stacking faults
   Siyoung Bae, Nagoya University, Japan

Title: High Brightness Photonic Crystal Semiconductor Lasers
   Tong Cunzhu, Changchun Institute of Optics, Fine Mechanics and Physics, China

Title: Optical parametric vortex lasers
   Takashiige Omatsu, Chiba University, Japan

Title: Anderson–Darling statistic and its “inverse”
   Gennady Martynov, Institute for Information Transmission Problems of the Russian Academy of Sciences, Russia

Title: Fourier-Bessel Electromagnetic Mode Solver (and its Inversion)
   Robert Claude Gauthier, Carleton University, Canada

Title: Defect reduction of GaN nanorods on heterosubstrates: Behaviors of basal stacking faults
   Siyoung Bae, Nagoya University, Japan
Title: Signal's Envelope Analysis by the Mathematical Statistics Methods as a New Approach to Accurate Measuring in Optical Metrology
Tatiana Iakovleva, Federal Research Center “Computer Science and Control” of Russian Academy of Sciences, Russia

Title: Non-diffractive beam in random media
Tatsuo Shiina, Chiba University, Japan

Title: Growth and characterization of homoepitaxial m-plane GaN on native bulk GaN substrates: prospects of next-generation electronic devices
Ousmane I Barry, Nagoya University, Japan

Few Speaker slots and 2 Workshop slot available
Attend the conference along with your group and avail Group Discounts

Workshop on:
Rock Wars, We can win with Silicon
Douglas R McCarter, Dhc
Vice President, McCarter Machine & Technology Inc., USA

Keynote Speech on:
Simon Fafard
President at Azistra Opto Inc and Prof. at uSherbrooke, Canada

“Optical to electrical power conversion devices with the highest efficiency ever (Eff > 60%) based on the vertical epitaxial heterostructure architecture (VHESA) design”

Excellent conference! The presentations covered a wide range of topics and yet were all connected by our common research interests. The socializing opportunities afforded by your fine scheduling allowed me to form connections with other professionals in our rarefied field.

Thank you

Dr. Michelle R. Stem
USA
Honorable Moderator @Optics 2016
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Email Us: optics@physicsconferences.org

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NOTE: Program Last Updated on August 02, 2017
Tourist Attractions

Bellagio

X-Scream

Shark Reef at Mandalay Bay

Stratosphere Las Vegas

Adventuredome

Fremont Street Experience

Circus Circus

Discovery Children's Museum