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10th International Conference and Exhibition on

# LASERS, OPTICS & PHOTONICS

Optics 2018

November 26-28, 2018 | Los Angeles, USA

## Final Program of Optics 2018 LA, USA

| Day 1<br>November 26, 2018 | |
|---|---|
| **08:30-09:00** | **Registrations** |
| **09:00-09:25** | **Opening Ceremony @** |
| **Keynote Forum** | |
| **09:25-09:30** | **Introduction** |
| **09:30-10:10** | **Title:** High speed laser based intersatellite link systems for harsh environment of space |
| | **Alex A. Kazemi**, The Boeing Co., USA |
| **10:10-10:50** | **Title:** Updated Advances in Micrographic Analyses of Select Photonically Responsive Natural Silicates |
| | **Michelle R. Stem**, Complete Consulting Services, LLC., USA |
| **Networking & Refreshment Break 10:50-11:05@** | |
| **Group Photo 11:05-11:10** | |
| Workshop on **The preeminent material for space optics and structures-single crystal silicon** by **Douglas R McCarter, McCarter Machine Inc., Country** | |
| **11:10-12:40** | **Session I** |
| **Lunch Break 12:40-13:40 @** | |
| **13:40-15:10** | **Session II** |
| **Sessions: Optoelectronics \| Laser Systems \| Optical Fiber** | |
| **Session Chair: Douglas R McCarter, McCarter Machine Inc., Country** | |
| **Session Co-Chair: Yanbo Bai, Coherent Inc., USA** | |
| **Session Introduction** | |
| **15:10-15:40** | **Title:** Tailored Algorithm for Sensitivity Enhancement of Gas Concentration Sensors Based on TLAS |
| | **Everardo Vargas-Rodriguez,** Universidad de Guanajuato, Mexico |
| **Networking & Refreshment Break 15:40-16:00 @** | |
| **16:00-16:30** | **Title:** Measurement Technologies of Few-Mode Fiber |
| | **Takashi Matsui,** NTT corporation, Japan |
| **16:30-17:00** | **Title:** Recent Progress on Localized Field Enhanced Two-dimensional Material Photodetectors from Ultraviolet-Visible to Infrared |
| | **Weida Hu,** Shanghai Institute of Technical Physics, China |
| **17:00-17:30** | **Title:** High Power Widely Tunable Optically Pumped Semiconductor Lasers |
| | **Yanbo Bai,** Coherent Inc., USA |
| **17:30-18:00** | **Title:** Technique of selective and tunable wavelength conversion employing quasi-phase matched lithium niobate devices with dual pump configuration |
| | **Yutaka Fukuchi,** Tokyo University of Science, Japan |
| **Panel Discussion** | |

| Day 2<br>November 27, 2018 | |
|---|---|
| **Hall :**<br>**Keynote Forum** | |
| **09:30-10:10** | **Title:** Non-confocal 3d microscopy for research, industry and biomedicine |
| | **Gary Greenberg,** University of Hawaii Institute for Astronomy, USA |
| **10:10-10:50** | **Title:** Laser Power Converter products with Eff > 60% based on the vertical epitaxial heterostructure architecture (VHESA) design |
| | **Simon Fafard,** Broadcom Semiconductor, Canada |
| **Networking & Refreshment Break 10:50-11:05@** | |
| **Workshop** | |
| **11:05-12:40** | **Title:** Modeling of Lasers with the Computer Program - LASCAD |
| | **Konrad Altmann,** LAS-CAD GmbH, Germany |
| **Lunch Break 12:40-13:40 @** | |
| **Sessions : Optics and Lasers in Medicine \| Optical Communications and Networking \| Advancements in Photonics \| Technologies in Lasers, Optics and Photonics** | |
| **Session Chair: Simon Fafard, Broadcom Semiconductor, Canada** | |
| **Session Co-Chair: Gary Greenberg, University of Hawaii Institute for Astronomy, USA** | |
| **Session Introduction** | |
| **13:40-14:10** | **Title:** PILOT inflight optical performances |
| | **Baptiste MOT,** IRAP – CNRS,France |
| **14:10-14:40** | **Title:** Fluorescence lifetime measurements with high optical resolution using time-resolved nonlinear fluorescence microscopy constructed of a pump-probe setup |
| | **Fumihiro Dake,** Nikon Corporation, Japan |
| **14:40-15:10** | **Title:** Burst features influence on incubation effect during irradiation of stainless steel with burst of picosecond delayed fs laser pulses |
| | **Caterina Gaudiuso,** Università degli Studi di Bari, Italy |
| **15:10-15:40** | **Title**: Significant suppression of Rayleigh scattering loss in silica glass formed by the compression of its melted phase |
| | **Madoka Ono,** AGC Research Center, Japan |
| **Networking & Refreshment Break 15:40-16:00 @** | |
| **16:00-16:30** | **Title:** Erbium silicate compound optical waveguide amplifier and laser |
| | **Xingjun Wang,** Peking University, China |
| **16:30-17:00** | **Title:** Intra-pixel response test method for high encircled energy infrared detector |
| | **Fansheng Chen,** ShangHai Institute of Technical Physics of CAS, China |
| **17:00-17:30** | **Title:** High-spectral-efficiency optical transmission with high-order QAM and probabilistic shaping |
| | **Seiji Okamoto,** NTT corporation, Japan |
| **Panel Discussion** | |

| Day 3<br>November 28, 2018 | |
|---|---|
| **Hall :<br>Keynote Forum** | |
| **09:15-09:55** | **Title:** Embedding the photon with its relativistic mass as a particle into the electromagnetic wave explains the Gouy phase shift as an energetic effect |
| | **Konrad Altmann,** LAS-CAD GmbH, Germany |
| **09:55-10:35** | **Title:** 5 years of implementing light to help the visually impaired at the National Optical Instrument Engineering Technology Research Center |
| | **Kaiwei Wang,** Zhejiang University, China |
| **Networking & Refreshment Break 10:35-10:55@** | |
| **Sessions : Applications and Trends in Optics and Photonics \| Optical Physics** | |
| **Session Chair: Konrad Altmann, LAS-CAD GmbH, Germany** | |
| **Session Co-Chair: Caterina Gaudiuso, Università degli Studi di Bari, Italy** | |
| | **Session Introduction** |
| **10:55-11:25** | **Title**: Research of the pico-second CO2 laser amplifier based on sequence band gain spectrum |
| | **Xiahui Tang,** Huazhong University of Science and Technology, China |
| **11:25-11:55** | **Title:** Parabasal Formulas and their Applications |
| | **Sunggoo Cho,** Semyung University, South Korea |
| **11:55-12:25** | **Title**: Design of a high-efficiency narrow spot headlampwith distributed LEDs |
| | **Guo-Dung J Su,** National Taiwan University, Taiwan |
| **12:25-12:55** | **Title:** The Asian dust and agricultural biomass burning aerosol from the ground-based Lidar and satellite measurements in China: transport, optical properties and impacts on regional air quality |
| | **Yong Han,** Sun Yat-Sen University, China |
| **Lunch Break 12:55-13:45 @** | |
| **YRF Session** | |
| **YRF Judge: Kaiwei Wang, Zhejiang University, China** | |
| | **Session Introduction** |
| **13:45-14:05** | **Title:** A Study of camera on orbit radial calibration based on blackbody and infrared calibration stars |
| | **Zhuoyue Hu,** ShangHai Institute of Technical Physics of CAS, China |
| **14:05-14:25** | **Title:** Suppressing 1.06-mm spontaneous emission of Neodymium ions using a novel tellurite all-solid photonic bandgap fiber |
| | **Tong Hoang Tuan,** Toyota Technological Institute, Japan |
| **14:25-14:45** | **Title:** Infrared photoluminescence analysis and optimization of erbium- ytterbium silicate films under different sputtering method |
| | **Peiqi Zhou,** Peking University, China |
| **14:45-15:05** | **Title:** Mid-infrared Single InAs Nanowire Metal-Semiconductor-Metal Photodiodes |
| | **Hehai Fang,** Shanghai Institute of Technical Physics, China |
| **15:05-15:25** | **Title:** In vivo experimental models of wound healing under the influence of photobiomodulation therapy |
| | **Ciro Dantas Soares,** University of Campinas, Brazil |
| **Networking & Refreshment Break 15:25-15:45@** | |
| **Posters 15:25-16:00** | |
| **Poster Judge: Sunggoo Cho, Semyung University, South Korea** | |
| **Op1** | **Title:** Reducing radiation loss of near zero-index metamaterials |
| | **Yuzhen Liang,** Xiamen University of Technology, China |
| **Op2** | **Title:** Synthesis and chariterization of CdSe quantum dots of phosphine-free colloidal method under various conditions |
| | **Hye Mi Cho,** Korea Institute for Rare Metal, Republic of Korea |
| **Op3** | **Title:** Nanowire-on-nanowire: all-nanowire electronics by on-demand selective integration of hierarchical heterogeneous nanowires |
| | **Jinwoo Lee,** Seoul National University, Korea |
| **Op4** | **Title:** Synthesis and chariterization of 1-dimensional NdFeB nano fiber using electrospinning process |
| | **Nu Si A Eom,** Korea Institute for Rare Metal, Republic of Korea |
| **Op5** | **Title:** Influence of processing parameters on the energy consumption and mechanical properties of selective laser melted parts |
| | **Yi Zhu,** Zhejiang University, China |
| **Panel Discussion** | |
| **Awards & Closing Ceremony** | |