conferenceseries LLC Ltd

10th International Conference and Exhibition on

LASERS, OPTICS & PHOTONICS

Optics 2018

November 26-28, 2018 | Los Angeles, USA

Final Scientific Program

Day 1
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 November 27, 2018	
Hall : **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 November 28, 2018	
Hall : 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	