

International Conference on

LASERS, OPTICS AND PHOTONICS

July 25-26, 2018 | Osaka, Japan



July 25, 2018

Optics Conference Agenda

Day 1

09:00-09:30

Registration

Conference Hall: Yoshino

09:30-10:00

Opening Ceremony

10:00-10:15

Introduction

10:15-10:50

Keynote Forum

Title: Overcooled gas flow assisted image recognition
Konstantin Lyakhov, Jeju National University, South Korea

10:50-10:55

Group Photo

Networking and Refreshment Break 10:55-11:10 @ 5F Lounge

11:10-11:45

Keynote Forum

Title: Electric-field-resolved spectroscopy of molecular vibrations
Ioachim Pupeza, Max Planck Institute of Quantum Optics, Germany

11:45-12:20

Title: Oxide semiconductor plasmonics in the infrared range for modern life
Hiroaki Matsui, The University of Tokyo, Japan

12:20-12:55

Title: Environmental factors impacts to bidirectional optical wireless communication
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan

12:55-14:00 Lunch @ 1F Restaurant The Cafe

Oral Session I: Optics and Biomechanics/ Modern Optics/Interferometry/ SDM and Beyond/ Optical Metrology/ Optical Imaging

Session Chair: Jianjun Yu, Fudan University, Shanghai, China

Session Co-chair: Pawat Phuaknoi, National Institute of Metrology, Thailand

14:00-14:20

Title: Mechanical vibration characteristics of hetero-core fiber optic sensor built in at both clamped ends with bending
Michiko Nishiyama, Soka university, Japan

14:20-14:40

Title: Laser induced breakdown spectroscopy for analysis of materials
W Aslam Farooq, King Saud University, Saudi Arabia

14:40-15:00

Title: Reduction of stress induced bending in MEMS suspended membrane
Muhammad Luqman Haider, Balochistan University of Information Technology, Pakistan

15:00-15:20

Title: Experimental investigation of halothane as a new halide donor for nuclear pumped excimer laser
Anton V Podkopaev, Obninsk Institute for Nuclear Power Engineering, Russia

Special Session

15:20-16:00

Title: Highly flat optical frequency comb generation based on passive modulation devices
Dongsun Seo, Myongji University, South Korea

Networking and Refreshment Break 16:00-16:15 @ 5F Lounge

Oral Session II:

Systems and Machine Vision/ Optical Computing/ Micro-Opto-Electro-Mechanical Systems (MOEMS)/ Microscopy and Adaptive Optics/ Lasers in Medicine and Biology

Session Chair: **Konstantin Lyakhov**, Jeju National University, South Korea

Session Co-chair: **Ioachim Pupeza**, Max Planck Institute of Quantum Optics, Germany

16:15-16:35

Title: Highly efficient and stable semi-transparent perovskite photovoltaic cells
Sheng Hsiung Chang, CYCU, Taiwan

16:35-16:55

Title: Recent progress on high-speed optical transmission
Jianjun Yu, Fudan University, China

16:55-17:15

Title: Correlation of a phase change correction and surface roughness
Pawat Phuaknoi, National Institute of Metrology, Thailand

17:15-17:35

Title: Inexpensive U-bent optical fiber sensor utilizing localized surface plasmon resonance (LSPR) technique
Dimpi Paul, Tezpur University, India

Special Session

17:35-18:00

Title: Optical coating
Guowen Ding, Labforinvention Corp, USA

Session Adjournment

July 26, 2018

Day 2

Conference Hall: Yoshino

10:00-10:15

Introduction

Keynote Presentation

10:15-10:50

Title: Macroscopic 3D transillumination imaging of animal body by scattering suppression of NIR light
Koichi Shimizu, Waseda University, Japan

Networking and Refreshment Break @ 10:50-11:05 5F Lounge

Keynote Presentation

11:05-11:40

Title: Optical interconnect opportunities for future server memory systems
Yasunao Katayama, IBM Academy of Technology, IBM Research, Tokyo

11:40-12:15

Novel guided fluidic assembling technology for optical devices
Brahm Pal Singh, Panasonic Corporation, Osaka, Japan

12:15-12:50

Title: Current status of SBS PCM based self-navigation of laser drivers on IFE pellets injected into the reactor chamber
Milan Kalal, Faculty of Nuclear Sciences and Physical Engineering Czech Technical University, Prague

12:50-14:00 Lunch @ 1F Restaurant The Cafe

Special Session

14:00-14:45

Title: Novel guided fluidic assembling technologies for optical devices
Brahm Pal Singh, Panasonic Corporation, Japan

Oral Session III:

Engineering Applications of Spectroscopy/ Applications and Trends in Optics/ Optoelectronic Devices, Photonics, Nanophotonics and Biophotonic/ Organic Optoelectronics and Integrated Photonics/ Optical Communications, Switching and Networks/ High-speed Opto-electronic Networking

Session Chair: Koichi Shimizu, Waseda University, Japan

Session Chair: Yasunao Katayama, IBM Academy of Technology, IBM Research, Japan

14:45-15:05

Title: High accuracy optoelectronic jaw motion dynamic tracking system
Yuan-Min Lin, National Yang-Ming University, Taiwan

15:05-15:25

Title: High-power high-beam-quality 330-nm laser from a frequency-quadrupled nd: Yag laser
Shen-Jin Zhang, Technical Institute of Physics and Chemistry, China

15:25-15:45

Title: 6.45 μ m laser for tissue ablation with high precision
Yu Shen, Technical Institute of Physics and Chemistry, China

Networking and Refreshment 15:45-16:00 @ 5F Lounge

16:00-16:20

Title: Residual stress reduction in si3n4/sio2 notch filters by reactive pulsed magnetron sputtering
Chuen-Lin Tien, Feng Chia University, Japan

16:20-16:40

Title: Multi-spectrum laser-excited phosphor light engine for endoscopic fiber illumination applications
Tsung-Xian Lee, National Taiwan University of Science and Technology, Taiwan

16:40-17:30

Special Session

Title: Laser based 3-d printing of materials for engineering applications
Hua Guan, Wuhan Institute of Physics and Mathematics, China

Poster Session 15:30-16:15 @ Kamo

OPT-1

Title: Combined output windows for high-power lasers

Maxim Rogozhin, Moscow Institute of Physics and Technology, Russia

OPT-2

Title: Residual stress reduction in $\text{Si}_3\text{N}_4/\text{SiO}_2$ notch filters by reactive pulsed magnetron sputtering

Chuen-Lin Tien, Feng Chia University, Japan

OPT-3

Title: Multi-spectrum laser-excited phosphor light engine for endoscopic fiber illumination applications

Tsung-Xian Lee, National Taiwan University of Science and Technology, Taiwan

Conference Adjournment

