

# Call for Papers



**LDC 2018**  
Laser Display and  
Lighting Conference  
Pacifico Yokohama, Japan  
April 2018



# LDC 2018

The 7th Laser Display  
and Lighting  
Conference

April 24 (Tue.) – 27 (Fri.), 2018 Pacifico Yokohama / Yokohama, Japan

**Paper Submission Deadline : Jan.26 (Fri.) 2018**

Co-located with Optics & Photonics International Congress 2018

## EXHIBITION

OPTICS & PHOTONICS International Exhibition (OPIE 2018) will be held simultaneously on April 25(Wed)-27 (Fri) at Pacifico Yokohama.

Sponsored by  
The Optical Society of Japan (OSJ)



Co-Sponsored by  
The Japan Society of Applied Physics



Organized by  
Laser Display Technology Group (LDT) of  
Optical Society of Japan (OSJ)



In cooperation with

The Laser Society of Japan / Consortium of Visible Laser Diode Applications

(\*Some other societies and associations are under negotiation.)

## CONFERENCE CO-CHAIRS

Kazuo Kuroda (Utsunomiya Univ.), Hiroshi Murata (Osaka Univ.)

## SCOPE

LDC 2018 covers the laser display / lighting technology in the following major topical fields;

### A. Lasers and light sources

Visible lasers, LED, Solid-state light sources, Phosphor, Fluorescent materials, Wavelength conversion materials, Optoelectronic materials

### B. Optical components

Spatial light modulator, High-speed scanner, MEMS, Active-matrix integration, Projection components, Display drivers and interfaces

### C. Imaging / Lighting Technologies and Devices

Projector, 3D imaging, Holography, Head worn display, Eyewear, Laser backlight unit

### D. Image / Lighting Quality and Human Vision

Speckle, Color speckle, Image quality evaluation, Color reproduction, Color management, Color appearance, Eye safety, Laser safety

### E. Systems and Applications

Projection TV, LCD, 3D, Projector, Head mounted display, Eyewear, Lighting technology, Touch technology, Biomedical imaging, Industrial imaging, Laser entertainment, AR, VR, MR, XR, Wearables

### F. Novel and emerging technologies

### G. Special session

The special session of automotive applications is held.

### H. Joint sessions

The session for 3D display / imaging is held with cooperation of IP (Information Photonics) committee. That with IoT and LEDIA is under negotiation.

## PLENARY SPEAKER

-Hidenori Kawanishi (Sharp, Japan)

*"IR/R/G/B Laser Diodes for Multi-Wavelength Applications"*

## INVITED SPEAKER

### Joint Session with LEDIA, IoT-SNAP

-Takao Sawa (Japan Agency for Marine-Earth Sc. and Tech., Japan)

*"Laser Diode Based Underwater Optical Wireless Communication"*

-Mitsuru Sugawara (QD Laser, Japan)

*"Recent Progress of Retinal Imaging Laser Technology"*

### Special Session for Automotive

-Takuya Kitazono (Stanley, Japan)

*"Laser scanning headlamps"*

-Shin-ichi Nagahama (Nichia Corp., Japan)

*"GaN-based laser diodes for automotive applications"*

-Josef Schug (Lumileds Corp., Netherland)

*"Dynamic laser-based lighting for automotive headlamps"*

### Ordinary session

-Masahiro Murayama (Sony, Japan)

*"Tentative: W-class green and blue laser diodes"*

-Jiyang Wang (Shandong Univ., China)

*"High efficiency green laser output from self-frequency doubling crystal"*

-Matthew E. Brand (MERL, U.S.A.)

*"Optimized Algorithm for Freeform Optics"*

-Jan Heller (Jenoptik, Germany)

*"Our capabilities in production of components and sub-assemblies for LIDAR"*

-Youichi Ochiai (Tsukuba Univ., Japan)

*"Fairy Lights in Femtoseconds: Tangible Holographic Plasma"*

-Zhaomin Tong (Shanxi Univ., China)

*"The Development of Speckle Reduction Technologies in Our Group for Laser Projection Displays: a Short Summary"*

-Jamieson Christmas (DARQI, U.K.)

*"Laser Holographic Head Up Displays"*

-Nan-Ei Yu (Gwangju Inst. Sc.and Tech., Korea)

*"Development of RGB Light source for Head-Up Display at Automobile"*

## FURTHER INFORMATION

The latest information on the conference will be announced on the Web site

<http://ldc.opicon.jp/>