

# Laser Display and Lighting Conference

Trinity College Dublin, Ireland, June 17–20, 2025

## FIRST CALL FOR PAPERS

### Introduction

LDC2025, the 14th conference on laser displays, laser lighting, and related technologies. A forum for dissemination and discussion on topics ranging from fundamental research to systems, applications, and products. Around 100 attendees are expected with strong international representation from industry and academia. Keynote sessions and invited talks from leaders in their fields.



### Venue

Ireland is a member state of the European Union. There are good international flight connections and the English language is spoken fluently. Dublin is the capital city with a population of over 1M and a compact size. Trinity College was founded in 1592 and is located in the center of the city. Its faculties include arts, sciences, and engineering. Visitor accommodation is available. The conference will be held in the new Business School building. Catering included with registration comprises lunches, coffee breaks, and a banquet in the historic Dining Hall.

### Deadlines

Regular paper submission	Jan. 31st 2025
Conference registration (early)	Feb. 28th 2025
Post-deadline paper submission	Mar. 31st 2025

### Chairs

<b>Honorary General</b>	co-chair	Kazuo Kuroda
	co-chair	Hiroshi Murata
<b>Steering</b>	co-chair	Fergal Shevlin
	co-chair	Kazuhiya Yamamoto
<b>Program</b>	co-chair	Norihiro Ohse
	co-chair	Sunao Kurimura
	co-chair	Tetsuya Yagi
	co-chair	Shining Zhu
	vice co-chair	Kenji Yamamoto
<b>Local</b>	co-chair	Hirotsugu Yamamoto
	co-chair	Tatsushi Hamaguchi
	co-chair	Muneharu Kuwata
<b>Local</b>	co-chair	Louise Bradley
	co-chair	Fergal Shevlin

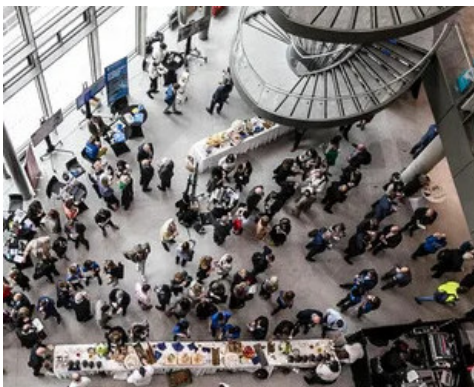
### Exhibition

Tables in public areas will be made available to attendees for technology and product demonstrations.



### Scope

- **Light Sources and Components** Visible lasers, LED, and other solid-state light sources; phosphor and other wavelength conversion materials; for display, general, and automotive applications. Optoelectronic components such as spatial light modulators, scanners incl. MEMS, projection, speckle reduction, display drivers and interfaces.
- **Imaging and Lighting** Physical display units incl. direct view, projection, holography, and light-field; Sensing and imaging technologies incl. 3-D by scanning, ghost imaging, and imaging algorithms; Image acquisition with new technologies incl. Raman/nonlinear scattering, photoacoustic imaging, etc.; Illumination and lighting incl. LIFI; Imaging processing and evaluation for speckle reduction; Color management and image quality control; Laser safety and standardization.
- **XR (AR, MR, VR) and Metaverse** Hardware, software and applications related to Augmented Reality, Mixed Reality, and Virtual Reality.
- **Laser Applications for Moving Platforms** Sensing applications such as TOF and LIDAR; Light-based vehicle-to-vehicle communication; Lighting/communication applications including headlights, rear lights, CASE, and other functional lighting devices; Road surface projectors.
- **AI and DX for Smart Systems** Intelligent display, digital transformation, and IoT; e.g. integrated with technologies such as AI analysis/control, signal processing, sensors, human interfaces, microwave/millimeter wave communication devices.
- **Novel and Emerging Technologies** Components and optics related to entertainment, education, medical, and social.



### Fees

Regular early, normal, on-site: €500, 550, 600.  
Student early, normal, on-site: €400, 450, 500.

### Schedule

Tues. 17th	Private meetings, Laboratory tours
Wed. 18th	Talks, Coffee, Lunch, Dinner, Social
Thurs. 19th	Talks, Coffee, Lunch, Posters, Social
Fri. 20th	Talks, Coffee, Lunch.

### Sponsors

**Sponsored by** The Optical Society of Japan, OSJ  
**Organized by** Laser Display Technology Group of OSJ  
**Supported by** The Laser Society of Japan  
Consort. of Visible Laser Diode Apps.  
Fáilte Ireland  
Some other potential sponsors are under discussion.

### Publication

The abstract book of LDC2025 will be published in the SPIE Digital Library in Sep. 2025. A special issue on Laser Displays will also be published in Nov./Dec., 2025 issue of OPTICAL REVIEW, edited by the LDC committee and distributed by Springer. All authors, including invited speakers, are strongly encouraged to submit their original papers to the special issue. Peer-reviewed in accordance with the editorial policy.



### Committees

<b>Honorary General</b>	Kazuo Kuroda	Utsonomiya University
	Hiroshi Murata	Mie University
	Fergal Shevlin	Trinity College Dublin
<b>Steering</b>	Kazuhiya Yamamoto	Osaka University
	Norihiro Ohse	Sony Group Corp.
	Makio Kurashige	Dai Nippon Printing
	Atsushi Motogaito	Mie University
	Fumio Narusawa	HIOKI E.E. Corp.
	Keizo Ochi	Cons. of Vis. Laser Diode Apps.
	Kayo Ogawa	Japan Women's University
	Shouichi Ozawa	Nikka Joho
	Shinji Saito	Toshiba Corp.
	Ichiro Sato	Bosch Corp.
<b>Program</b>	Tsutomu Shimura	University of Tokyo
	Tsuyoshi Suzudo	Ricoh Industrial Solutions
	Takunori Taira	Nat'l Inst. of Natural Science
	Masashi Wada	Gooch & Housego Japan
	Sunao Kurimura	Nat'l Inst. Materials Science
	Tetsuya Yagi	Nichia Corp.
	Shining Zhu	Nanjing University
	Hirotsugu Yamamoto	Utsonomiya University
	Kenji Yamamoto	Tokushima University
	Tatsushi Hamaguchi	Mie University
	Muneharu Kuwata	Mitsubishi Electric Corp.
	Abdelmalek Hanafi	BMW, Res. and Innov. Center
	Atsushi Satou	Iwasaki Electric
	Eiji Hase	Tokushima University
	Frank Fischer	BST
Hidekazu Hatanaka	Ushio	
<b>Advisory</b>	Jun-ichi Kinoshita	Osaka University
	Katsuyuki Kambe	Solidray
	Lung-Han Peng	National Taiwan University
	Masafumi Ide	Lamda Works
	Masaru Kuramoto	Stanley Electronics
	Masato Ishino	Osaka University
	Osamu Matoba	Kobe University
	Ray-Hua Horng	Nat'l Yang Ming Chiao Tung Univ.
	Satoshi Ouchi	Hitachi Corp.
	Seika Tokumitsu	Oxide
<b>Local</b>	Shunji Kamijima	Epson
	Takaaki Ishigure	Keio University
	Tomoyuki Miyamoto	Tokyo Inst. Tech.
	Yasuaki Kumamoto	Osaka University
	Young-Joo Kim	Yonsei University
	Ray-Hua Horng	National Chung Hsing University
	Yasuhiro Koike	Keio University
	Shigeo Kubota	Oxide Corp.
	Takashi Omatsu	Chiba University
	Brian Schowengerdt	University of Washington
Hiroaki Sugiura	Mitsubishi Electric Corp.	
Toshiaki Suhara	Osaka University	
Andreas Tünnermann	Fraunhofer Institute, IOF	
Louise Bradley	Trinity College Dublin	
Fergal Shevlin	Trinity College Dublin	