



# OPTICS & PHOTONICS International Congress 2017

## (OPIC2017)

### OBJECTIVE of OPIC 2017

The objective of OPIC2017 is to discuss the future of our society which will be realized by optics and photonics, based on the most updated knowledge and technologies worldwide, presented at OPIC2017 and OPIE'17 (OPTICS and PHOTONICS International Exhibition 2017).

OPIC/OPIE was launched in April 2012 at Pacifico Yokohama, and is the only annual optics and photonics international congress in Japan held under close cooperation between academia and industry. OPIC2017 is the 6th Congress, comprised of Specialized International Conferences, covering a broad range of fields which are all very active at present.

The number of the Specialized International conferences held within OPIC, as well as the number of the participants, have been increasing each year since the start of OPIC. Most recently, OPIC2016 was held with 11 Specialized International Conferences, that is the largest number since the beginning of OPIC, and the participants exceeded more than 1,000 for the first time, comprising 32 % foreign participants from 31 countries.

In OPIC2017 three new Specialized International Conferences will join, covering even broader and very active fields in optics and photonics. OPIC2017 will promote exchanges among the academia and the industry. Presentation from industry is planned at the Plenary Session of OPIC2017, showing the most updated state of real world applications of optics and photonics. Following the previous OPIC traditions, OPIC2017 will further deepen the linkage with the co-located OPTICS & PHOTONICS International Exhibition (OPIE'17) with various approaches.

**Date:** April 18 (Tue.) to 21 (Fri.), 2017  
**Venue:** Pacifico Yokohama  
1-1-1 Minatomirai, Nishi-ku, Yokohama 220-0012, Japan  
<http://www.pacifico.co.jp/english/index.html>  
**Congress Website** <http://opicon.jp/>  
**Organized by** OPTICS & PHOTONICS International Council

## Congress Chairs

Sadao Nakai (Professor Emeritus, Osaka University, Japan)  
Chris Barty (CTO, Lawrence Livermore National Laboratory, USA)  
Reinhart Poprawe (Director, Fraunhofer Institute for Laser Technology,  
Germany)

## Meeting Schedule

April 18 (Tue.) Specialized international conferences  
April 19 (Wed.) Plenary Session, Joint Sessions, Specialized international conferences, Reception  
April 20 (Thu.) Specialized international conferences  
April 21 (Fri.) Specialized international conferences

## Specialized International Conferences

- (1) The 6th Advance Lasers and Photon Sources (ALPS'17)  
Conference Chair: Hitoki Yoneda (Electro-Communications Univ.)  
Sponsored by the Laser Society of Japan
- (2) The 3rd Biomedical Imaging and Sensing Conference/ The 4th Optical Manipulation Conference (BISC/OMC '17)  
Conference Chairs: Toyohiko Yatagai (Utsunomiya Univ.) and Takashige Omatsu (Chiba Univ.)  
Sponsored and organized by SPIE
- (3) Conference on Laser Energy Science/ Laser and Accelerator Neutron Sources and Applications 2017 (CLES / LANSA'17)  
Conference Chairs: Hiroaki Nishimura (Osaka Univ.) and Ryouhei Hanayama (The Graduate School for the Creation of New Photonics Industries)  
Sponsored by IFE forum, Institute of Laser Engineering, Osaka University and The Graduate School for the Creation of New Photonics Industries
- (4) International Conference on High Energy Density Science 2017 (HEDS2017)  
Conference Chair: Ryosuke Kodama (Osaka Univ.)  
Sponsored by the Laser Society of Japan
- (5) International Conference on Nanophotonics and Nanooptoelectronics (ICNN 2017)  
Conference Chair: Yasuhiko Arakawa (Tokyo Univ.)  
Sponsored by Institute for Nano Quantum Information Electronics, The University of Tokyo
- (6) Information Photonics 2017 (IP'17)  
Conference Chair: Yoshio Hayasaki (Utsunomiya Univ.)  
Sponsored by the Optical Society of Japan
- (7) Laser Display and Lighting Conference 2017 (LDC'17)  
Conference Chair: Kazuo Kuroda (Utsunomiya Univ.)  
Sponsored by the Optical Society of Japan
- (8) The 5th International Conference on Light-Emitting Devices and Their Industrial

Application'17 (LEDIA'17)

Conference Chair: Hiroshi Amano (Nagoya Univ.)

Sponsored by Akasaki research Center (ARC), Nagoya University

(9) Light driven Nuclear-Particle physics and Cosmology (LNPC'17)

Conference Chairs: Kensuke Homma (Hiroshima Univ.) and Ovidiu Tesileanu (ELI-NP)

Sponsored by Hiroshima University

(10) Laser Solution for Space and the Earth (LSSE2017)

Conference Chair: Toshikazu Ebisuzaki (RIKEN)

Sponsored by the executive committee of Laser Solution for Space and the Earth

(11) International Conference on X-ray optics, detectors, sources, and their applications 2017 (XOPT'17)

Conference Chairs: Tetsuya Ishikawa(RIKEN) and Kazuto Yamauchi(Osaka Univ.)

Co-Sponsored by RIKEN SPring-8 Center, Research Center for Ultra-Precision Science & Technology, Osaka Univ.

**Supported by** (Under negotiation)

Ministry of Education, Culture, Sports, Science and Technology

Ministry of Economy, Trade and Industry

Ministry of Agriculture, Forestry and Fisheries

Ministry of Health, Labor and Welfare

Ministry of Land, Infrastructure, Transport and Tourism

Keidanren (Japan Business Federation)

**In cooperation with**

Atomic Energy Society of Japan (AEST)

The National Institute of Advanced Industrial Science and Technology (AIST)

Institute for Laser Technology

Japan Photonics Council

The Japan Society of Plasma Science and Nuclear Fusion Research (JSPF)

Japan Science and Technology Agency (JST)

New Energy and Industrial Technology Development Organization (NEDO)

Optoelectronic Industry and Technology Development Association (OITDA)

The Optical Society of Japan

The National Institutes for Quantum and Radiological Science and Technology (QST)

RIKEN

SPIE (USA)

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Yasuhiko Arakawa (The university of Tokyo, ICNN)  
Hiroshi Amano (Nagoya University, LEDIA)  
Takashige Omatsu (Chiba University, OMC)  
Tetsuya Ishikawa(RIKEN, XOPT)  
Kazuto Yamauchi(Osaka University, XOPT)  
Toshikazu Ebisuzaki (RIKEN, LSSE)  
Hiroaki Nishimura (Osaka University, CLES/LANSA'17)  
Ryohei Hanayama (The Graduate School for the Creation of New Photonics Industries, CLES/LANSA'17)  
Kensuke Honma (Hiroshima University, LNPC'17 )  
Kenichi Ueda (The University of Electro-Communications)  
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Satoshi Matsuyama (Osaka University, XOPT)  
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### *Chairman*

Sadao Nakai (Professor Emeritus, Osaka University)

### *Vice Chairman*

Yoshiaki Kato (President, GPI; President, The Laser Society of Japan)

Akira Hiruma (Chairman of the Board, Hamamatsu Photonics K. K.)

### *Members*

Mitsutoshi Hatori (Professor Emeritus, Tokyo University)

Seiji Katayama (Osaka University; President, Japan Laser Processing Society)

Makoto Kikuchi (President, Japan Association for the advancement of Medical  
Equipment)

Nobuyuki Kondo (Chairman, Japan Importers Association of Lasers and Electro-Optics)

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Subcommittee of The Japan Society of Applied Physics)

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**OPIC2017 SECRETARIAT**

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## Report of OPIC2016

Date: May 18 (Tue.) to 21 (Fri.), 201

Venue: Pacifico Yokohama (Yokohama, Japan)

### Plenary Session

- Greetings
  - Andreas Ostendorf, Professor, Ruhr-University Bochum, Germany
  - Sadao Nakai, Professor Emeritus, Osaka University, Japan
  - Reinhart Poprawe, Director, Fraunhofer Inst. for Laser Tech., Germany
- Plenary Speech
  - 1) "Retinal Imaging Laser Eyewear :from Low-Vision Aids to Smart Glass"  
Mitsuru Sugawara, President, QD Laser Inc., Japan
  - 2) "Cultivation of Electro-Active Functionality in Transparent Oxides"  
Hideo Hosono, Professor, Tokyo Institute of Technology, Japan
  - 3) "The Thirty Meter Telescope project"  
Masanori Iye, Professor Emeritus, National Astronomical Observatory of Japan,
  - 4) "ELI: The CERN of laser research"  
Georg Korn, CSO, Head of Department of Experimental Program, Extreme Light Infrastructure(ELI)

### Joint Sessions & International Conferences

- The 5th Advanced Lasers and Photon Sources (ALPS'16)
  - Conference Chair: Hitoki Yoneda (The University of Electro-Communications)
  - Sponsored by the Laser Society of Japan
- Biomedical Imaging and Sensing Conference 2016 (BISC'16)
  - Conference Chair: Toyohiko Yatagai (Utsunomiya University)
  - Sponsored by Utsunomiya University Center for Optical Research & Education
- Conference on Laser Energy Science (CLES 2016)
  - Conference Chair: Hiroshi Azechi (Osaka University)
  - Sponsored by Institute of Laser Engineering, Osaka University
- International Conference on High Energy Density Science 2016 (HEDS2016)
  - Conference Chair: Ryosuke Kodama (Osaka University)
  - Sponsored by the Laser Society of Japan
- The 4th International Conference on Light-Emitting Devices and Their Industrial Applications (LEDIA'16)
  - Conference Chair: Hiroshi Amano (Nagoya University)
  - Sponsored by Akasaki Research Center (ARC), Nagoya University
- The 4th Laser Ignition Conference 2016 (LIC'16)
  - Conference Chair: Takunori Taira (Institute for Molecular Science)



Sponsored by the Micro Solid-State Photonics Group of The Laser Society of Japan

- Laser Solution for Space and the Earth (LSSE2016)

Conference Chair: Toshikazu Ebisuzaki (RIKEN)

Sponsored by the Executive Committee of Laser Solution for Space and the Earth

- The 3rd Optical Manipulation Conference (OMC'16)  
Conference Chair: Takashige Omatsu (Chiba University)

Sponsored by the Japan Society of Applied Physics

- The 5th Pacific-rim Laser Damage Conference (PLD'16)  
Conference Chair : Takahisa Jitsuno (Osaka University)

Co-Sponsored by Inst. of Laser Eng. Osaka Univ. / SPIE / SIOM Chinese Academy of Science

- The 2nd Smart Laser Processing Conference (SLPC2016)  
Conference Chair : Yasuhiro Okamoto (Okayama University)

Sponsored by the Japan Society of Applied Physics

- International Conference on X-ray Optics, Detectors, Sources, and their Applications 2016 (XOPT'16)

Conference Chairs : Tetsuya Ishikawa(RIKEN) / Kazuto Yamauchi(Osaka University)

Co-Sponsored by RIKEN SPring-8 Center / Research Center for Ultra-Precision Science & Technology. Osaka University.

Participants: 1,028 from 31 countries and regions

Presented papers 737

Co-Located OPIE'16

Visitors 15,132

Exhibitors 335 companies for 453 booths