

# The 13th Advanced Lasers and Photon Sources Conference ALPS 2024

Sponsored by  
**The Laser Society of Japan**

Conference Co-Chair  
**Hitoki Yoneda**

*Institute for Laser Science,  
University of Electro-  
Communications, Japan*



Conference Co-Chair  
**Ruxin Li**

*Shanghai Institute of Optics  
and Fine Mechanics, Chinese  
Academy of Sciences, China*



We are delighted to welcome you to the 13th Advanced Lasers and Photon Sources Conference (ALPS 2024).

The ALPS conference covers science and technology related to lasers and photon sources, spanning fundamental research and industrial applications. As widely recognized, the development of exceptional light sources is pivotal for advancing new scientific discoveries and applications. At the ALPS conference, participants have a valuable opportunity to exchange ideas and information concerning recent technological advancements and potential new applications. This exchange has been instrumental in maintaining the conference's appeal over the past thirteen years.

The ALPS conference is organized as part of the OPTICS & PHOTONICS International Congress (OPIC 2024), which consists of thirteen optics-related scientific conferences. In the 13th ALPS we will have more than 210 excellent presentations to cover the recent advanced in this scientific field including 36 invited talks. The field included are novel optical materials, high average power lasers, high peak power lasers, novel solid-state, fiber, diode lasers, shorter wavelength light sources, terahertz devices, novel optical devices, optical frequency combs, quantum optics, and their applications.

After the relaxation of Covid-19 restrictions, we plan to organize the meeting in a face-to-face format. We anticipate fruitful discussions at the 13th ALPS meeting for all participants. You are cordially invited to join us and enjoy your time at the ALPS conference.

## Conference Co-Chairs

**Hitoki Yoneda** *The University of Electro-Communications, Japan*

**Ruxin Li** *Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China*

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## Category A: Novel optical materials/ structure and applications

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## Category B: High average power lasers and applications

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**Yicheng Wang** *Ruhr-Universität Bochum, Germany*

## Category C: High peak power lasers, high pulse energy lasers and applications

**Hiromitsu Kiriya** (*Category Chair*)

*QST, Japan*

**Jumpei Ogino** *Osaka Univ., Japan*

**Takaaki Morita** *Hamamatsu Photonics K.K., Japan*

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**Bixue Hou** *University of Michigan, USA*

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## Category D: Novel solid state / fiber / diode lasers and applications

**Shigeki Tokita** (*Category Chair*)

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**Shotaro Kitajima** *Nagoya Univ., Japan*

**Jeff Nicholson** *OFS Laboratories, USA*

**Xiaoyang Guo** *Shenzhen Technology University, China*

**Yoonchan Jeong** *Seoul National University, Korea*

## Category E: Short wavelength light sources and applications

**Takeshi Higashiguchi** (*Category Chair*)

*Utsunomiya Univ., Japan*

**Keisuke Kaneshima** *University of Hyogo, Japan*

**Kentaro Tomita** *Hokkaido Univ., Japan*

**Heide Ibrahim** *Institut National de la Recherche Scientifique, Canada*

**John Sheil** *ARCNL, Netherlands*

## Category F: Terahertz devices, nonlinear optics and applications

**Osamu Kojima** (*Category Chair*)

*Chiba Institute of Technology, Japan*

**Shinichi Watanabe** *Keio Univ., Japan*

**Yu Tokizane** *Tokushima Univ., Japan*

**M. Hassan Arbab** *Stony Brook University, USA*

**Michele Cito** *NICT, Japan*

## Category G: Novel optical devices, metamaterials, structure and applications

**Takuma Aihara** (*Category Chair*) *NTT, Japan*

**Koichi Okamoto** *Osaka Metropolitan Univ., Japan*

**Kentaro Iwami** *Tokyo University of Agriculture and Technology, Japan*

**Mu Ku CHEN** *City University of Hong Kong, Hong Kong*

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## Category H: Optical devices and techniques for bio and medical applications

**Masato Ohmi** (*Category Chair*) *Osaka Univ., Japan*

**Masayuki Suzuki** *Doshisha Univ., Japan*

**Yuji Matsuura** *Tohoku Univ., Japan*

**Tsuneyuki (John) Ozaki** *Institut national de la recherche scientifique, Canada*

**Hsiang-Chieh Lee** *National Taiwan University, Taiwan*

## Category I: Optical frequency combs / Frequency stabilized lasers and applications

**Yoshiaki Nakajima** (*Category Chair*) *Toho Univ., Japan*

**Sho Okubo** *AIST, Japan*

**Takashi Kato** *UEC, Japan*

**Naoya Kuze** *Tokushima Univ., Japan*

**Guanhao Wu** *Tsinghua Univ., China*

**Zhang Shuangyou** *Max Planck Institute for the Science of Light, Germany*

## Category J: Quantum optics and their applications

**Ryosuke Shimizu** (*Category Chair*) *UEC, Japan*

**Ryo Okamoto** *Kyoto Univ., Japan*

**Rikizo Ikuta** *Osaka Univ., Japan*

**Rui-Bo Jin** *Wuhan Institute of Technology, China*

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