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# FINAL CALL FOR PAPERS

14<sup>th</sup> International Conference on Optics-photonics



Design & Fabrication

*“ODF'24, Tucson”*  
*July 10<sup>th</sup>-12<sup>th</sup>, 2024*



The University of Arizona, Tucson, Arizona, U.S.A.

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## Organized by

Optics Design Group of The Optical Society of Japan

## In Cooperation with (to be confirmed)

EOS (European Optical Society) • IEICE (The Institute of Electronics, Information and Communication Engineers) • IEIJ (The Illuminating Engineering Institute of Japan) • ITE (The Institute of Image Information and Television Engineers) • JOEM (Japan Optomechatronics Association) • JPS (The Physical Society of Japan) • JSAP (The Japan Society of Applied Physics) • JSPE (The Japan Society for Precision Engineering) • LSJ (The Laser Society of Japan) • OITDA (Optoelectronics Industry and Technology Development Association) • Optica (formerly OSA) • OSJ (The Optical Society of Japan) • Society for Information Display Japan Chapter • SPIJ (The Society of Photography and Imaging of Japan) • The Color Science Association of Japan • TPS (Taiwan Photonics Society)

**Paper Submission Period: Sep. 11th, 2023 - Feb. 9th, 2024 (extended)**  
**<http://www.odf.jp/>**

## INTRODUCTION

The 14th International Conference on Optics-photonics Design & Fabrication “ODF’24, Tucson” will be held on July 10th-12th, 2024. Optics-photonics design and fabrication will continue to play a significantly important role in the 21st century achieving harmony between technology and the environment. ODF’24 is intended to provide an international forum for original paper presentations and discussions of optics-photonics design and fabrication-related technological and scientific topics. These topics include theory, design, fabrication, testing, applications, and others.

ODF’24 is aimed to promote international collaboration among the participants in this field including related companies’ exhibition.

Collaboration and Competition make progress.

“Join us at **ODF’24, Tucson, U.S.A.!**”

## SCOPE OF THE CONFERENCE

ODF’24 is an international forum for the engineers and scientists in the field of Optics-photonics Design and Fabrication to exchange their ideas and achievements with the goal of future mutual progress. The conference covers the following major topical categories:

## CATEGORIES AND PRELIMINARY LIST OF INVITED SPEAKERS

### Plenary

*T. Nomura (Wakayama Univ. / Japan)*

*"Digital Holography from Conventional to Unconventional"*

*R. Pfisterer (Photon Engineering / USA)*

*"One Ray, Two Rays, Green Rays, Blue Rays"*

### Special Session: “Streamlining sensing, computation, display, and integration as Optics for Autonomous Services and Interactive Systems (OASIS)”

*A. Ozcan (UCLA /USA)*

*"TBD"*

*H. Choi (The Univ. of Arizona / USA)*

*"Advancements in Deflectometric Optical Testing for Industrial Precision"*

### Category 1. Optical Design / Simulation / Fabrication

*J. P. Rolland (Univ. of Rochester / USA)*

*"Design for Manufacture with Freeform Optics"*

*T. Kashiwao (Kindai Univ. / Japan)*

*"CNN-based Analysis of White LED Packaging Design"*

*M. Shribak (Marine Biological Laboratory / USA)*

*"Visualization of Phase and Birefringent Objects with Using Polarized Light"*

C. Liang (National Central Univ. / Taiwan)  
*"Industrial Wavefront Metrology toward 100% Inspection"*

## **Category 2. Optical Components / Devices**

A. Fuerbach (Macquarie Univ. / Australia)  
*"Femtosecond Laser-written Optical Components for Mid-infrared Photonics"*

R. J. Jones (The Univ. of Arizona / USA)  
*"Dual-comb Spectroscopy"*

R. Li (META Reality labs. / USA)  
*"Liquid crystal polarization holograms for virtual reality displays"*

M. Kamiura (Kyocera / Japan)  
*"Kyocera Low Thermal Expansion Ceramic: Fine-Cordierite for Space Optical Application"*

## **Category 3. Optical Systems**

M. Takabayashi (Kyushu Institute of Technology / Japan)  
*"Self-referential Holography Meets AI Technologies"*

N. Chen (The Univ. of Arizona / USA)  
*"Slimming Optical Systems and Boosting Performance with Differentiable Imaging"*

M. Hanft (Carl Zeiss AG / Germany)  
*"Lattice Lightsheet Microscopy with Standard Cover Glass: A Challenge for Optical Design"*

S. Manuel (LLNL / USA)  
*"Building a Versatile Dynamic Imaging System for Detonators and Sub-components"*

## **Category 4. New Technologies**

N. Yoneda (Kobe Univ. / Japan)  
*"Recent Progress of Computational Optical Scanning Holography"*

W. T. Chen (SNOChip Inc. / USA)  
*"Dispersion-engineered Metasurfaces: Fundamental and Applications"*

R. Horstmeyer (Duke Univ. / USA)  
*"Computational 3D Video Microscopy with Multi-camera Arrays"*

O. Föhnle (OST - Eastern Switzerland Univ. of Applied Sciences / Switzerland)  
*"Optics Design Optimizations by Fabrication Chains Simulations"*

The list of invited speakers will be updated in the ODF'24 website.

## PREPARATION OF ABSTRACT AND MANUSCRIPTS

A limited number of original contributed papers covering unpublished work will be accepted for presentation. Authors are required to submit papers including 35-word abstracts and 2-page manuscripts in the prescribed form. The form can be downloaded from the conference website. Papers must be submitted online. Please see the ODF'24 website for details of the submission procedure. Authors are required to agree to copyright transfer by including a completed form when submitting papers.

- **35-word Abstract**

Abstract should be up to 35 words in an ASCII text file. Please avoid the use of scientific and engineering symbols in the abstract. Abstracts that are longer than 35 words will be shortened by the program committee. If the paper is accepted, the abstract will appear in the Advance Program.

- **2-page Manuscripts**

2-page camera-ready manuscripts including text, figures, tables, and references must be typed single-spaced on an A4 or letter size pages with the title followed by the author's names and author affiliations. Accepted papers will be published in the Technical Digest of the conference. The manuscript template can be downloaded from the ODF'24 website.

- **Abstracts & Manuscripts will be accepted: Sep. 11th, 2023 – ~~Jan. 19th, 2024~~**

**Feb. 9th, 2024 (extended)**

For inquiries, please contact: [odf24@pacmice.jp](mailto:odf24@pacmice.jp)

## ADDITIONAL INFORMATION

- **Post-deadline Papers**

Detailed information will be announced in the Advance Program.

- **ODF'24 Special Issue of OPTICAL REVIEW**

The presented papers can be resubmitted and published in the ODF'24 special issue of OPTICAL REVIEW after peer review. It is the English-language journal of the Optical Society of Japan (OSJ). Application forms for the special issue will be presented on the website.

## REGISTRATION

- **Registration Fee (USD)**

The registration fee includes admission to technical sessions and online Technical Digest. As for the person who paid the registration fee, the reception fee is free except for students. Students may attend the reception for an additional fee.

Type	Before / on Jun. 9th, 2024	After Jun. 9th, 2024
Member*	USD 550	USD 600
Non-Member	USD 600	USD 650
Student	USD 100	USD 100
Invited	USD 300	USD 300
Reception For Student	USD 100	USD 100

[\*] Member of sponsor and cooperative society

- **Registration**

Participants in ODF'24 are required to register in the registration page. The deadline for advanced registration is June 9th, 2024.

Online registration: <http://www.odf.jp/registration.html>

- **Cancellation Policy**

There will be no refunds for the registration fee.

## CONFERENCE SITE

ODF'24, Tucson, will be held at The University of Arizona, Tucson, Arizona, U.S.A.

Access: <https://www.arizona.edu/>

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