

# SPIE. OPTICAL SYSTEMS DESIGN

13–16 September 2021

IFEMA  
Madrid, Spain

Submit abstracts by:  
**28 April 2021**



## Optical Design and Engineering VIII (OSD01)

*Conference Chairs:* **Laurent Mazuray**, Airbus Defence and Space (France); **Ulrike Fuchs**, asphericon GmbH (Germany); **James Babington**, Thales Optronics Ltd. (United Kingdom)

*Programme Committee:* **Nathalie Blanchard**, INO (Canada); **Andrés Cifuentes**, ASE Optics Europe (Spain); **Andrew J. Court**, TNO (Netherlands); **Eric Herman**, Zygo Corporation (United States); **Demetrio Labate**, Leonardo (Italy); **Paolo Laporta**, Politecnico di Milano (Italy); **Thierry Lépine**, Lab. Hubert Curien (France); **Iain A. Neil**, ScotOptix (Switzerland); **Thomas Nobis**, Carl Zeiss AG (Germany); **Jérôme Primot**, ONERA (France); **Jannick P. Rolland**, Univ. of Rochester (United States); **Elisabetta Rugi Grond**, Thales Alenia Space Switzerland (Switzerland); **Alessio Taiti**, Leonardo (Italy); **Simon Thibault**, Univ. Laval (Canada); **Andrew P. Wood**, Qioptiq Ltd. (United Kingdom); **Richard N. Youngworth**, Riyo-LLC (United States); **María J. Yzuel**, Univ. Autònoma de Barcelona (Spain)

Efficient and successful optical design requires a multidisciplinary approach. The optical designer needs to have material and production expertise, knowledge of the application and potential market, in addition to considerable ability in their main task; the design of an optical system with optimum performance. Advanced optical systems require a clear understanding of the physical limits, material science, and technical possibilities. Only then will the result be a competitive product optimised for best value for money. In many cases, the success of a product in the international marketplace depends on its optical design.

The design software is the main tool for the designer. This tool has to keep pace with the research and development activities in the field of optical elements, illumination, detectors, and other new technologies.

Contributions on the topics of design-to-cost, design-for-manufacture, including productions in series as example for space constellations or military programs, and design-for-industrial innovation are welcome at this conference. These topics are critical to ensuring that optical designs more effectively accommodate production constraints and new process developments in an increasingly competitive environment.

This conference is intended to address an international audience of optical system designers, software development engineers, and R&D experts from industry, institutions, and academia.

Original papers are solicited on, but not limited to, the following areas of research, design, and engineering of optical systems:

- modelling, simulation, and new algorithms
- optomechanical design
- tolerancing and design-for-manufacture
- stray light analysis and prevention
- super resolution systems
- space optics
- x-ray optics
- active and adaptive optics
- integrated and guided optics
- micro-optics
- optics for visual instruments
- detectors, their interface to optics, and associated signal processing
- advanced optical materials
- diffractive and holographic optics
- high-power designs using nonlinear elements
- environmental effects and their compensation
- projection and display systems
- microscopy
- lithography and associated optical systems
- computational imaging
- freeform optics.

CONTINUED NEXT PAGE →

# Abstract Submission

## Present your research at SPIE Optical Systems Design

Follow these instructions to develop a successful abstract and accompanying manuscript for the conference and for publication in the Proceedings of SPIE in the SPIE Digital Library.

### How to submit an abstract

- Go to the conferences page (link below), browse the conference topics and choose one that most closely matches the topics of the work you wish to present. Click “Submit an Abstract” from within that conference, and you’ll be prompted to sign in to your spie.org account to complete the submission wizard.
- Browse the conference programme and select conference(s) that most closely matches the topics for your area of research. Important: each abstract may be submitted to one conference only.

### What you will need to submit

A completed electronic submission should include the following:

- Title
- Author(s) information
- 500-word abstract for technical review
- 300-word summary for the program
- Keywords used in search for your paper (optional)
- Your decision on publishing your presentation recording to the SPIE Digital Library
- Some conferences may indicate additional requirements in the Call for Papers

**Note:** Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

### Submission agreement

Presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract. An author or coauthor will:

- Register and attend the meeting.
- Present as scheduled.
- Publish a 6- to 20-page manuscript in Proceedings of SPIE in the SPIE Digital Library.
- Obtain funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations.
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.
- Ensure that you obtain a visa in time, if you need to do so. Visa Application Information and Invitation Requests.

### Important dates

Abstracts Submission Deadline	28 April 2021
Acceptance Notification Sent to Contact Author	18 June 2021
Manuscripts Due	18 August 2021

### Review and programme placement

- To ensure a high-quality conference, all submissions will be assessed by the Conference Chair/Editor for technical merit and suitability of content.
- Conference Chairs/Editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
- Final placement in an speaker or poster session is subject to Chair discretion.

### Publication of Proceedings in the SPIE Digital Library

- Conference Chairs/Editors may require manuscript revision before approving publication and reserve the right to reject for publication any paper that does not meet acceptable standards for a scientific publication.
- Conference Chair/Editor decisions on whether to allow publication of a manuscript are final.
- Authors must be authorized to transfer copyright of the manuscript to SPIE, or provide a suitable publication license.
- Only papers presented at the conference and received according to publication guidelines and timelines will be published in the conference Proceedings of SPIE in the SPIE Digital Library.
- Oral presentations are recorded, and the slides are synced with the presenter’s audio. Only those with author permission will be published in the SPIE Digital Library.
- SPIE partners with relevant scientific databases to enable researchers to find the papers in the Proceedings of SPIE easily. The databases that abstract and index these papers include Astrophysical Data System (ADS), Ei Compendex, CrossRef, Google Scholar, Inspec, Scopus, and Web of Science Conference Proceedings Citation Index.
- More publication information available on the SPIE Digital Library.

### Contact information

the meeting, contact the Contact the Programme Coordinator (listed in your SPIE.org account)

For questions about your manuscript, contact [AuthorHelp@spie.org](mailto:AuthorHelp@spie.org).

[www.spie.org/osd01call](http://www.spie.org/osd01call)

## CALL FOR PAPERS

### SYMPOSIUM CHAIR



**Marta C. De la Fuente**  
ASE Optics Europe  
(Spain)

### SYMPOSIUM CO-CHAIR



**Juan Carlos Miñano**  
Univ. Politécnica de  
Madrid (Spain)

### HONORARY SYMPOSIUM CHAIR



**Tina Kidger**  
Kidger Optics  
Associates (United  
Kingdom)

**SPIE. DIGITAL LIBRARY**

**SPIE WILL PUBLISH YOUR RESEARCH GLOBALLY**

[www.SPIEDigitalLibrary.org](http://www.SPIEDigitalLibrary.org)

Your work will live far beyond the conference room—all proceedings from this meeting will be published in the SPIE Digital Library. Promote yourself, your ideas, and your organization to millions of key researchers from around the world through this web-based repository of the latest technical information.

### Join your community by submitting an abstract

Although much in the world remains uncertain, the one constant is that your work is important. SPIE remains committed to providing a forum for information sharing, collaboration, and advancing research. Prepare your abstract and guarantee your research is ready to be shared.



### Stay Up to Date via Email

Sign up to receive emails about SPIE Optical Systems Design.  
[www.spie.org/signup](http://www.spie.org/signup)

**SPIE.**