



EUROPEAN OPTICAL SOCIETY ANNUAL MEETING (EOSAM) 13—17 SEPTEMBER 2021, ROME, ITALY

CALL FOR PAPERS: TOPICAL MEETING ON OPTICAL SYSTEM DESIGN, TOLERANCING AND MANUFACTURING

SYNOPSIS

This TOM will highlight significant technology trends, emerging technologies and associated prospective developments in the field of optics design, tolerancing and fabrication. This TOM provides a forum for all aspects of optics design and fabrication, ranging from micro to large-scale optics and from high value one-off to mass-produced components including lessons learned papers on special design and manufacturing issues. One main goal of the meeting is to provide a better link between the design, the manufacturing, and the characterization of optical components and systems. Consequently, special attention will be paid to the collaboration between design and fabrication to generate cost-effective and manufacturable optical systems.

TOPICS

- Optical and optomechanical system design and tolerancing.
- Optics Fabrication, from single piece to High-Volume Fab, sub-millimeter to meter optics, wafer-level optics.
- Optical modeling and Design methods. Fabrication friendly Optical Design and Tolerancing – and vice versa.
- Optimization techniques in optics fabrication.
- Holistic design considering polishing and coating effects on surface properties, optical performance, and losses.
- Finishing methods, e.g. SPDT, MRF, IBF, SLE, ductile grinding, FJP, laser polishing, CCP and traditional polishing.
- Lessons learned producing high level aspheres and freeform optics
- Challenges of cost-effective manufacturability and testing methods based on a smart tolerancing process and well-adapted alignment strategies.
- Upcoming technologies enabling innovative optical designs for new applications.
- Testing, Specification, and Characterization of Light Scattering.
- Roughness, Shape, Defects, sub-surface damage, MTF and mid-spatial.
- Cleaning issues and strategies
- Optical coatings – challenges and solutions.
- Optics for high-power laser applications
- Start-up companies presenting their technologies.
- Education in optics design and fabrication.

CHAIRS



Oliver Föhnle, OST—Ostschweizer Fachhochschule (CH)



Sven Schröder, Fraunhofer IOF (DE)



Marco Hanft, Carl Zeiss AG, Jena (DE)

PROGRAM COMMITTEE

- ◆ **Alois Herkommer**, Universität Stuttgart (DE)
- ◆ **Stefan Bäumer**, TNO (NL)
- ◆ **Andrew Boyd**, Qioptiq Ltd. (UK)
- ◆ **Julie Bentley**, University of Rochester (US)
- ◆ **Thomas Arnold**, University of Leipzig (DE)
- ◆ **Jens Bliedtner**, EAH Jena (DE)
- ◆ **Jessica DeGroote Nelson**, Optimax, Rochester (US)
- ◆ **Andreas Ettemeyer**, NTB, Buchs (CH)
- ◆ **Julius Muschaweck**, JMO GmbH (DE)
- ◆ **David Walker**, University of Huddersfield (UK)
- ◆ **Xuejun Zhang**, Changchun Institute of Optics (CN)
- ◆ **Yongtian Wang**, Beijing Institute of Technology (CN)
- ◆ **Yohei Fujishima**, Nikon (JP)
- ◆ **Irina Livshits**, ITMO-University (RU)
- ◆ **Jyrki Kimmel**, Nokia-Bell-Labs (FI)
- ◆ **Matthias Beier**, Fraunhofer IOF (DE)
- ◆ **Dae Wook Kim**, University of Arizona (US)
- ◆ **Frank Frost**, Leibniz-Institut für Oberflächenmodifizierung e.V. (DE)
- ◆ **Lars Jensen**, Laser Centre Hannover (DE)
- ◆ **Sven Kiontke**, Asphericon (DE)
- ◆ **Marcus Trost**, Fraunhofer IOF (DE)
- ◆ **Reinhard Völkl**, SUSS Micro-Optics SA (CH)

INVITED SPEAKERS

- ◆ **Julie Bentley**, University of Rochester (US)
- ◆ **Dae Wook Kim**, University of Arizona (US)
- ◆ **Jessica DeGroote Nelson**, Optimax, Rochester (US)
- ◆ **David Walker**, University of Huddersfield (UK)
- ◆ **Jens Bliedtner**, Ernst-Abbe University of Applied Sciences, Jena (DE)
- ◆ **Tong Yang**, Beijing Institute of Technology (CN)

TUTORIAL

- ◆ **Oliver Föhnle**, OST – Ostschweizer Fachhochschule, (CH) Modelling of Processes in Optical Fabrication and Photonics Systems Generation



www.eosam2021.org



13-17 September 2021 Rome, Italy



CALL FOR PAPERS

The European Optical Society Annual meeting (EOSAM) is a major international scientific conference with industry presence, held 13 - 17 September 2021 in Rome, Italy. EOSAM gathers top researchers, key leaders, students and industry experts together. Full week of novel research results presented from the widest range of optics and photonics fields, tutorials, special sessions and networking events will entice you together with the beautiful city of Rome. See you there!

NOTE: The conference will be held onsite in Rome, Italy. For those who cannot attend in person, we will offer a hybrid option (online presentation/attendance). While we strongly aim for an in-person meeting with some hybrid elements, the final form will depend on the sanitary and legal situation at the time of the meeting.

Submit your paper to any of the topical meeting (TOM) or Session mentioned below,
all topics under optics and photonics included:

- Silicon Photonics and Guided-Wave Optics
- Computational, Adaptive and Freeform Optics
- Optical System Design, Tolerancing and Manufacturing
- Bio-Medical Optics
- Resonant Nanophotonics
- Optical Materials: crystals, thin films, organic molecules and polymers, syntheses, characterization and devices
- Thermal radiation and energy management
- Non-linear and Quantum Optics
- Optics at the Nanoscale (ONS)
- Optical Microsystems (OMS)
- Waves in Complex Photonics Media
- Optofluidics
- Ultrafast Optical Technologies and Applications
- Advances and Applications of Optics and Photonics
- Early Stage Researcher Session Organized by SIOF
- EU Project Session
- Grand Challenges of Photonics Session

SUBMISSION GUIDELINES

Submissions are accepted for oral and poster presentations, for all TOMs. For the Early Stage Researcher session, only oral presentations are accepted. Authors are requested to submit a 2-page abstract, which is formatted according to the **Submission Guidelines**.

2-page abstracts will be reviewed by the program committees of each TOM. Abstracts are submitted online via [Conftool](https://www.conftool.com/eosam2021). Further submission guidelines next page.

SUBMIT: <https://www.conftool.com/eosam2021>

Journal of the European Optical Society JEOS:RP
Open Access – Special Issue dedicated to EOSAM2021 - Submissions welcome!

Springer Open

<https://jeos.springeropen.com>

AFTER CONFERENCE PUBLICATION IN JEOS:RP

After the conference, we offer you an opportunity to publish your work as a full length reviewed paper in the special issue on EOSAM 2021, published in the open access *Journal of the European Optical Society, JEOS:RP*. EOS members receive a significant discount from the APC fee.

PLENARY SPEAKERS

Dr. Sophie Brasselet
Institut Fresnel, FR

Dr. Federico Capasso
Harvard University, US

Dr. Giulio Cerullo
Politecnico di Milano, IT

Dr. Remus Nicolaescu
Pointcloud, US

Dr. Isabelle Staude
University of Jena, DE

Dr. Manuel Guizar-Sicairos
Paul Scherrer Institute, CH

Dr. Nikolay I. Zheludev
University of Southampton, UK

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PLEASE FOLLOW THESE GUIDELINES WHEN SUBMITTING

Submission Template

The abstract should be formatted according to the template provided (either LaTeX or MS Word). Submit template as one pdf file: **2-pages, A4 paper size, 2-columns**

LaTeX2e template

Download [Macropackage in LaTeX2e](#) (123.6 KB)

Microsoft Word template

Download [Word template for abstracts](#) (33.08 KB).

Important when submitting

- Select the correct TOM in the submission phase (14 different TOMs to choose from).
- The abstract should be written in English and uploaded as 2-page abstract in pdf format (as one pdf-file).
- Choose preference for either oral or poster presentation and presenting author (this name will be added in the program)
- Choose "student presentation" if, and only if, the presenting author is a student.
- Students who wish to qualify for the best student presentation award, should click the corresponding checkbox in the submission phase.

Online, open access proceedings

For any author who wishes to be included in the online proceedings, published with EDP Sciences, in the [Web of conferences](#), with DOI and indexation to CrossRef®, is asked to submit an extended abstract via Conftool, after acceptance of the original 2-page abstract is announced.

- Extended, 3-4 -page abstract submitted in Conftool
- Make sure the file is a [camera-ready PDF](#) (301.52 KB).
- Online proceedings available after conference
- BE CAREFUL, no extra corrections will be made after publication! You must carefully check your article, including: authors' names, initials, authors, affiliations, and references.
- Submit the publication right form. Download and sign the publication right form: Fill electronically /manually: template to be provided

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SUBMIT BY
10 June (FINAL EXTENSION)

<https://www.conftool.com/eosam2021>

www.eosam2021.org

IMPORTANT DATES

Submission opened
Sunday, 28 February 2021

Submission closes (FINAL EXTENSION)
Thursday, 10 June 2021

Conference Program - Overview (extended)
Thursday, 8 July 2021

Informing authors about acceptance (extended)
Thursday, 1 July 2021

Speaker registration (extended)
Thursday, 15 July 2021

Conference Program - Final (extended)
Thursday, 22 July 2021

Conference dates
Monday—Friday,
13—17 September, 2021

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