



Dresden - Germany

ICO-25 • 13 - 17 September 2021 • OWLS-16

25th Congress of the International Commission for Optics (ICO) • 16th International Conference on Optics Within Life Sciences (OWLS)

FIRST CALL FOR PAPERS

The General Congress of the International Commission for Optics (ICO) and the Conference of International Society on Optics Within Life Sciences (OWLS) will be held from **13th September to 17th September 2021 in Dresden, Germany**. The TU Dresden is proud to host the World Congress ICO-25-OWLS-16. The main theme is "Advancing Society with Light", which emphasizes the importance of modern light technology for society. The 60 years anniversary of the laser will be celebrated. Light has the potential to recognize the origins of diseases, to prevent them, or to cure them early and gently. This is one of the central topics of OWLS, which was founded at the ICO-15 Congress in Garmisch-Partenkirchen in 1990. Therefore, a special commemorative event of the 30 years anniversary of the foundation of OWLS in Germany will be organized.

The World Congress ICO-25-OWLS-16 is the most important scientific and technical meeting on all important topics of optics and photonics around the entire world. After 30 years and continuing the success of the recent previous general congresses, it is our great honor to host the General Congress and General Assembly of ICO in our country again. Due to the outbreak of the COVID-19 pandemic and the worldwide restrictions accompanied by it, the World Congress was postponed to September 2021. The pandemic outbreak has demonstrated, how quickly diseases can spread in our world. The World Congress ICO-25-OWLS-16-Dresden-Germany-2021 can support our society to further achieve progress in fighting the corona virus. A new topical slot on "Optical Technologies Fighting Infectious Diseases" will be included.

The ICO, "*the Place where the World of Optics and Photonics Meets*", is an affiliated commission of the International Union of Pure and Applied Physics (IUPAP), and a scientific associate of the International Council of Science (ICS). Its objective is to contribute, on an international basis, to the progress and diffusion of knowledge in the fields of optics and photonics. The ICO has the missions to foster advanced optics science and technology and to promote the development of science and technology in developing countries. The ICO is an umbrella organization with more than 50 territorial committee members and several international academic societies: OSA (The Optical Society), SPIE (The International Society for Optics and Photonics), EOS (European Optical Society), IEEE (Institute of Electrical and Electronics Engineers), OWLS (International Society on Optics Within Life Sciences), LAM (African Laser, Atomic and Molecular Physics Network), and RIAO (The Iberian American Network on Optics). On behalf of ICO-25-OWLS-16, we hope everyone will have an exciting, fascinating and memorable time at this general meeting.

Juergen Czarske

General Chair of ICO-25-OWLS-16-Dresden-Germany-2021

Professor and Director at TU Dresden, Fellow of OSA, Fellow of SPIE, Fellow of EOS, Senior Member of IEEE, Member of Saxon Academy of Sciences, Board Member of German Society of Applied Optics (DGaO) - The German Branch of the European Optical Society (EOS)

Important Dates

Deadline for papers
February 28, 2021

Abstract acceptance / grants application
May 2021

Program issue
June 2021

Early bird registration deadline
August 13, 2021

General Chair
Juergen Czarske

Int. Program Committee Chair of ICO-25
Wolfgang Osten

Int. Program Committee Chair of OWLS-16
Alexander Heisterkamp

Fundraising Committee Chair
Frank Hoeller

Honorary Chair
Gert von Bally

E-Mail: ico-office@mailbox.tu-dresden.de

Sponsors:



TOPICS

1. Optical Engineering, Material Processing, Design and Lithography
2. Display and Vision
3. Optical MEMS and Micro-Optics
4. Optical Sensing
5. Computational Metrology
6. Optical Information Processing and Imaging
7. Quantum and Nonlinear Optics
8. Ultrafast Phenomena and Ultrafast Optics
9. High Power Lasers, X-Ray and High-Energy Optics
10. Nano-Optics, Plasmonics and Metamaterials
11. Photonic Crystals, Nano Structures and Functions
12. Fiber Optics
13. Optical Communications and Photonic Network
14. Optoelectronics, Terahertz Photonics and Silicon Photonics
15. Microscopy, Biomedical Spectroscopy and Advanced Imaging
16. Biomechanics, Optical Elastography and Brillouin
17. Biomedical Optics
18. Nanobiophotonics, Optogenetics and Nanosensing
19. Optical Technologies Fighting Infectious Diseases

ABSTRACT / PAPER SUBMISSION

Contributed summaries are limited to 2 pages including an abstract with 35-words. Authors and affiliations will be submitted online.

REGISTRATION

Stay informed at ico25.org



SPECIAL ISSUE

A Special Issue of the Journal of the European Optical Society – Rapid Publications (JEOS:RP) with papers from the World Congress ICO-25-OWLS-16-Dresden-Germany-2021 is planned.

The general chair of the congress, Prof Juergen Czarke is associate editor of the JEOS:RP: jeos.springeropen.com

SUPPORT OF DEVELOPING COUNTRIES

- Scholarships for Students paid by Sponsors
- Grants for Scientists (Human development index and gross domestic product per capita are among the decision criteria)
- Application during submission procedure

AWARDS

- Best Poster Prizes of DGaO
- Best Paper Prizes of OSA-SPIE
- Best Poster Prize of OWLS

WEBSITE: www.ico25.org

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