



Messe München  
International

21st International Congress on Photonics  
in Europe—collocated with  
LASER World of PHOTONICS 2013

# WORLD OF PHOTONICS CONGRESS



FACTSHEET

**MAY 12-16, 2013**

[www.photonics-congress.com](http://www.photonics-congress.com)

MESSE MÜNCHEN

# WORLD OF PHOTONICS CONGRESS: THE WHOLE SPECTRUM FROM SCIENCE TO APPLICATION

## ONE OF THE THREE LARGEST PHOTONICS CONFERENCES IN THE WORLD

With some 5,000 participants from 65 countries and 2,500 lectures, the World of Photonics Congress is one of the world's three leading congresses for optical technologies.

Current fundamental research, practice-oriented development of photonics solutions, success stories for industrial applications, networking und knowledge-sharing – the World of Photonics Congress closes the link between science and industry.

Since 1973 – or for 40 years now – the World of Photonics Congress has been depicting the entire range of photonics, from science to practical applications, and bringing the international photonics and laser community to Munich.

### → IN A STRONG RESEARCH AND INDUSTRY NETWORK

Under the umbrella of the World of Photonics Congress, leading international scientific organizations bundle their R&D know-how and use it to cover this key technology in the overall value chain, from basic research to industrial applications in a variety of user sectors.

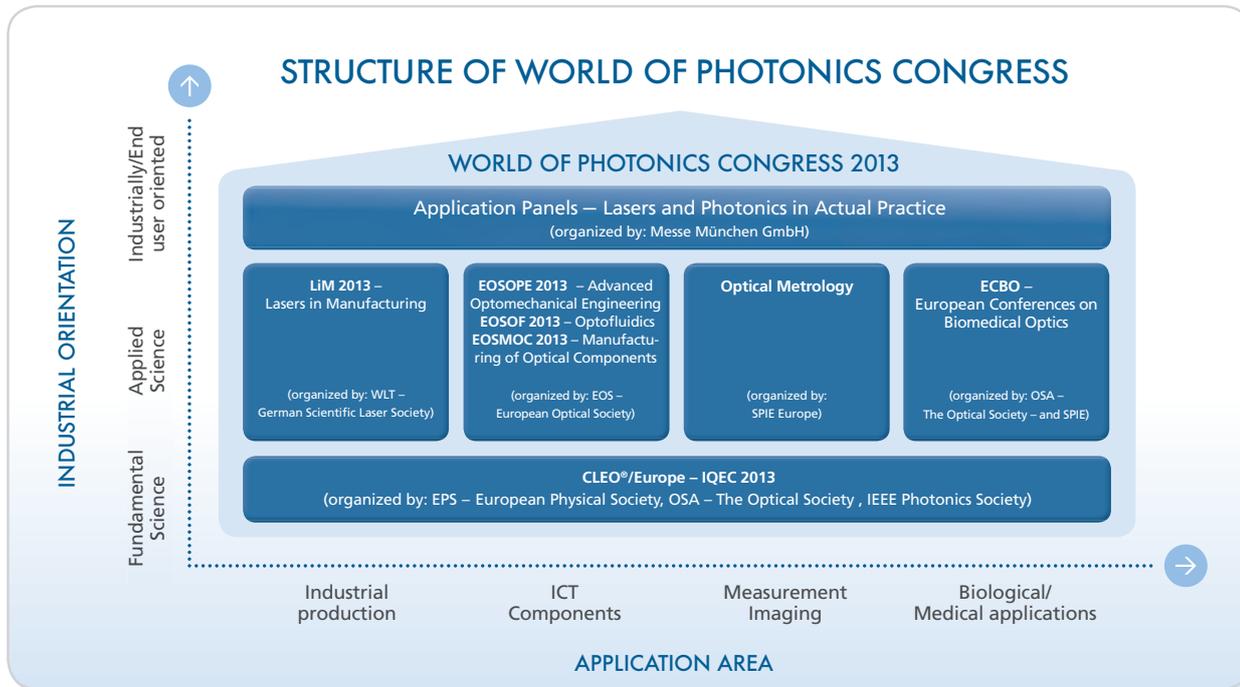
Partners include the European Optical Society (EOS), the European Physical Society (EPS), the IEEE Photonics Society, the Optical Society (OSA), the International Society for Optics and Photonics (SPIE) and the German Scientific Laser Society (WLT).

The congress is rounded out by practice-oriented application panels at the leading international trade fair LASER World of Photonics, which takes place at the same time as the congress. Some 1,500 people attended the application panels in 2011.



# WORLD OF PHOTONICS CONGRESS: STRUCTURE

The World of Photonics Congress covers the entire world of photonics in a single event: Seven conferences with several sub-conferences, plenary sessions, tutorials, joint sessions and practice-oriented application panels address all aspects of optical technologies.



## ALL CONFERENCES AND THEIR TOPICS AT A GLANCE

### → CLEO®/EUROPE-IQEC 2013

The European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO®/Europe-IQEC) is the largest, most comprehensive and prestigious gathering of optics and photonics researchers and engineers organised in Europe in 2013. CLEO®/Europe will showcase the latest developments in a wide range of laser and photonics areas, IQEC, on the other hand, features the fundamentals of quantum optics.

- **TOPICS:** Lasers, Optical materials and innovative photonic applications, Lightwave technology, Sensing and metrology, Fibre and guided-wave optics, Nonlinear optics and nonlinear dynamics, Ultrafast science and high-field laser physics, Quantum and atom optics, Nanophotonics and integrated optics, Plasmonics and metamaterials.

Particular highlights of the 2013 programme will be a series of special symposia that will survey recent advances in the emerging areas of Nuclear photonics, Quantum optical effects in biology, Extreme events in nonlinear optics, Superconductors in optics, Photonics for defence and security.

### → LASERS IN MANUFACTURING (LiM)

The Lasers in Manufacturing (LiM) 2013 is a scientific conference that focuses on the latest developments as well as future trends in the field of Laser Material Processing. Dealing with Process Engineering, System Technology and Process Optimisation, the LiM 2013 addresses anyone interested in the potential of lasers in theory and application.

Organized by the German Scientific Laser Society (WLT), the conference will bring together international experts from research and industry in order to match scientific advances and economic needs for mutual benefit.

- **TOPICS:** Laser Material Processing, System Technology, Process Optimisation



Excellent  
conference facilities.  
Excellent presentation  
facilities.

## → ADVANCED OPTOMECHANICAL ENGINEERING (EOSOPE)

The performance of high-end optical and electro-optical systems is strongly influenced by environmental effects. Thus, in a first step the goal of today's advanced optomechanical engineering is the analysis of the system performance under operating conditions, in a second step the design of optomechanical systems and components can be adapted and optimized.

The focus of this EOS conference, addressing experts from the industrial and academic research sectors alike, will be to explore new developments in the field of advanced optomechanical engineering.

→ **TOPICS:** Computation in optomechanical systems design, Environmental influences, Optomechanical components.

## → OPTOFLUIDICS (EOSOF)

Optofluidics merge optics and fluidics from the micro- to the nanoscale and enable new functionalities. Emerging fields of optofluidic research and applications may be found in the sector of sustainability energy, advanced chip-based sensor technology, and biophotonic handling and analysis in fluid media.

→ **TOPICS:** Photonic actuation of microfluidics, High resolution in-chip lensless microscopy, Optical and photonic tweezers, Optofluidic lenses and solar collectors, Microfluidic lasers, Fluid-fluid waveguides and microfluidically tuned optical fibers, High sensitivity biomolecular sensor platforms, Fluid displays and paper, Optofluidic photobioreactors and photocatalytic reactors, Upscaling optofluidic technology.

→ **SPECIFIC APPLICATION AREAS:** Reconfigurable photonics, Energy applications of optofluidics, Novel display technologies, Biomedical optofluidics.

## → MANUFACTURING OF OPTICAL COMPONENTS (EOSMOC)

In today's global markets the continued growth of the optics sector is now closely bound to advancements in technology and innovative manufacturing processes. Growth markets with high developmental momentum include the energy and semiconductor, life sciences, health care and the agri-food industries.

The third EOS Conference on Manufacturing of Optical Components, EOSMOC 2013, will highlight significant technology trends, emerging technologies and associated prospective developments. This meeting provides a forum for all aspects of optics fabrication and testing, ranging from micro to large-scale optics and from high value one-off to mass-produced components.

## → OPTICAL METROLOGY

The Optical Metrology conference organized by SPIE Europe focuses on the latest research in optical metrology, videometrics and machine vision with applications for solving measurement and inspection problems in industrial design and production engineering, vehicle navigation, multimedia technology, architecture, archaeology and arts.

Special emphasis is directed to model based, remote and active approaches, sensor fusion, robot guidance, image sequence processing and scene modeling, as well as to the preservation of our shared cultural heritage.

Optical Metrology addresses attendees like engineers, scientists, researchers, trustees and managers.

- **TOPICS:** Optical Metrology in Industrial Design and Production Engineering, Modelling Aspects in Optical Metrology, Metrology Instruments and Systems, 3D Sensing and Visualization, Imaging and Image Processing, Autonomic Navigation, Documentation, Preservation and Restoration of Art Work, Archaeological sites and Historical Buildings

## → EUROPEAN CONFERENCES ON BIOMEDICAL OPTICS (ECBO)

Sponsored by OSA and SPIE, the European Conferences on Biomedical Optics (ECBO) bring together scientists, engineers, and clinicians who work with optics and photonics to solve problems in medicine and biomedicine. Presentations will cover basic science, novel technology and applications in the areas of advanced microscopy, clinical and biomedical spectroscopy, diffuse optical imaging, molecular imaging, optical coherence tomography and other coherence techniques, therapeutic laser applications, laser-tissue interactions, opto-acoustic methods, and other novel biophotonics techniques. The conference will feature a Best Student Paper Award and a Best Poster Presentation Award.

- **TOPICS:** Advanced Microscopy Techniques, Clinical & Biomedical Spectroscopy & Imaging, Diffuse Optical Imaging, Optical Coherence Tomography & Coherence Techniques, Medical Laser Applications and Laser-Tissue Interactions, Opto-Acoustic Methods & Applications, Novel Biophotonic Techniques and Applications

Excellent trade show. In general, time-keeping was well-managed, making it easier to move between talks in different sessions.

## APPLICATION PANELS: FOCUS ON PRACTICAL APPLICATIONS

The application panels are a special feature of the World of Photonics Congress: This series of practice-oriented lectures takes place in the exhibition halls of LASER World of PHOTONICS and is included in the entrance tickets for all of the fair's visitors and exhibitors. Thanks to the application panels, the congress bridges the gap between theory and practice. In 2011, some 1,500 participants attended the application-oriented lecture series on the latest topics, challenges and solution approaches.

### → TOPICS AND HIGHLIGHTS IN 2011:

#### → OPTICAL TECHNOLOGIES

- Novel Developments in Beam Shaping
- Solid State Lasers
- Solid State Lighting

#### → LASERS AND LASER SYSTEMS FOR PRODUCTION ENGINEERING

- Latest Laser Applications in Energy & Lightweight Construction
- Photovoltaics
- Automotive Industry and Microelectronics

#### → BIOPHOTONICS AND LIFE SCIENCES

- Lasers for Analytical Bioinstrumentation
- Bioimaging
- Biophotonic & Life Sciences and Medicine like Oncology or Infectious Diseases

#### → CLEAR ADDED VALUE FOR FAIR AND CONGRESS VISITORS

- First-rate speakers will inform visitors about the latest challenges and solution approaches when using optical technology in actual practice, such as in the security, photovoltaics, lightweight design, energy, lighting or medical-diagnostics sectors.
- The speakers' corners support networking and the exchange of knowledge between users, researchers and industry representatives.
- Visitors can integrate the lectures into their personal trade-fair agendas and take new know-how and impetus home to their companies.



# WORLD OF PHOTONICS CONGRESS 2011 IN NUMBERS

The World of Photonics Congress 2011 was attended by some 5,000 participants: About 3,500 attendees from 65 countries took part in the scientific conferences and roughly 1,500 participants visited the more practice-oriented applications panels at the LASER World of PHOTONICS trade fair.

## → FACTS AND FIGURES OF THE SCIENTIFIC CONFERENCES

- 3,500 attendees
- 65 countries
- 73 % international share
- 2,500 lectures, presentations and posters

## → FACTS AND FIGURES OF THE APPLICATION PANELS

- 2,005 Visits
- 1,497 attendees
- 70 lectures

## → ORIGIN OF ATTENDEES

Germany	62 %
Europe – EU	17 %
Europe – Non EU	7 %
Asia	6 %
North America	5 %
Middle East	2 %
Rest of the World	1 %

## → ATTENDEES FIELD OF ACTIVITY

University, college, technical college or similar	69 %
Non-university research institute/ research establishment	18 %
Industry	11 %
Other	3 %

## → ATTENDEES PRIMARY POSITION

Teacher/lecturer/ member of academic staff	49 %
Student/school pupil/trainee	29 %
Executive employee/executive official	7 %
Skilled worker	6 %
Other employee/other official	4 %
Independent entrepreneur/partner/ professional	4 %
Other occupation/position	3 %

↑ 94 % OF ATTENDEES INTEND TO PARTICIPATE AGAIN



Quite complete!

It is a collective event so options of seeing many at the same time.

## → RATING AMONG ATTENDEES

Rating with regards to

• Topicality of the lecture content	94%
• Completeness of the congress program/ coverage of all currently relevant topics	95%
• Practical relevance of the lecture content	90%
• Services for congress participants overall	73%

Good to excellent

## → RATING AMONG SPEAKERS

Rating with regards to

• Efficiency of the presentation technology	92%
• Overall organization of lectures by the organizer	96%

Good to excellent



## CALL FOR PAPERS

YOUR CHANCE TO PRESENT YOURSELF AT THE WORLD OF PHOTONICS CONGRESS

### → WHY BECOME A SPEAKER AT THE WORLD OF PHOTONICS CONGRESS?

Participating as a speaker in the World of Photonics Congress is a unique opportunity to present your findings to a highly qualified audience of professionals from the international photonics community at one of the three leading congress worldwide. The feedback that you receive in ensuing discussions with congress attendees and industry representatives will serve as inspiration as you continue your work. Presenting and networking at related events is an effective way to reach new partners and clients.

### → HOW TO BECOME A SPEAKER AT WORLD OF PHOTONICS CONGRESS

The World of Photonics Congress consists of a variety of conferences. Take a look at the various Calls for Papers to decide which conference best suits your topic and submit your abstract to the respective organizing scientific society. The Calls for Papers for the World of Photonics Congress and corresponding submission deadlines for abstracts are available at [www.photonics-congress.com/call-for-papers](http://www.photonics-congress.com/call-for-papers).

### → IT WORKS LIKE THIS

Once your paper is accepted, our special speaker service allows you to submit and edit your presentation prior to and during the fair. The organizing society and Messe München International will announce your presentation in various relevant publications.

All World of Photonics Congress speakers enjoy free admission to LASER World of PHOTONICS during all four days of the fair, so they can take full advantage of exchanging information with scientific and industry experts.

Well organized,  
one of the largest  
conferences in the  
field.

Quality of talks  
was great.  
Laser exhibition  
was great.



Perfect timing,  
nice location.

Big choice  
of different  
topics.

## VISITOR SERVICES

### → REGISTRATION

Save time and money by registering online for the World of Photonics Congress at any of the organizers' homepages, which can be accessed via [www.photonics-congress.com/registration](http://www.photonics-congress.com/registration). The registration fee includes admission to the entire program of conference events at the World of Photonics Congress 2013 and to the exhibition. If you register on time, you will receive an Early Bird discount.

### → ONLINE LECTURE DATABASE

The entire program of events at the World of Photonics Congress will be available online at [www.photonics-congress.com](http://www.photonics-congress.com) several weeks before the congress begins. The database features versatile search functions and can help you to compile a personal congress schedule that you can transfer to your PDA. It also features information about all lectures and poster shows on specific topics and about the companies with exhibits at the fair.

### → TRADE SHOW TICKET

The world's leading trade show LASER World of PHOTONICS 2013 is being held in conjunction with the World of Photonics Congress from May 13 - 16, 2013. Registration for the World of Photonics Congress includes admission to the trade fair.

### → POSTER EXHIBITION

There will also be several poster shows during the World of Photonics Congress. Different poster sessions will be presented by the various conferences on each day of the fair. At the 2011 World of Photonics Congress, nearly 870 posters invited participants to "talk shop" and exchange ideas and information.

### → FREE W-LAN ACCESS

All congress participants have free access to the Internet using their own laptops and a free W-LAN Access.

### → NETWORKING EVENTS

Benefit from all the new contacts that you can make at this year's Congress by several receptions, coffee breaks and other events.

→ **SAVE THE DATE**

The next World of Photonics Congress will be held from 12-16 May 2013.

→ **ORGANIZER AND CONTACT**

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