



Messe München

Connecting Global Competence

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## Media / cooperation partners:



LASER World of PHOTONICS

social media channels:

[world-of-photonics.com/socialmedia](http://world-of-photonics.com/socialmedia)



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MIX  
Paper

Published by Messe München, Munich.  
Printed in Germany. I.P.  
Besucherprospekt Laser E/2/2019



[world-of-photonics.com](http://world-of-photonics.com)

JUNE 24–27, 2019, MESSE MÜNCHEN

24th World's Leading Trade Fair with Congress  
for Photonics Components, Systems and Applications

**LASER** World of **PHOTONICS**



PHOTONICS TRADE FAIRS: SEVERAL.

**World's leading trade fairs:  
only one.**

Those who aim to lead need a trade fair that takes a lead—and showcases the trends of tomorrow today. Be it innovative thinking, size, variety or relevance: **LASER World of PHOTONICS** sets benchmarks. As a source of inspiration. As a driving force of the industry. As a networking platform. As it brings together research, technology and applications. Because it covers the entire value chain of photonics. And as a meeting point of all international key players.

### Trifecta of expertise

Innovations, practical applications and research under a single roof:

TRADE  
FAIR

SUPPORTING  
PROGRAM

CONGRESS

Be part of this unique network and experience:  
**The Leading Light.**

### Impetus for all sectors—visitor profile

- ▶ Agriculture
- ▶ Automotive and auto-supply industry
- ▶ Construction technology
- ▶ Image processing
- ▶ Biotechnology and medical technology
- ▶ Data and information technology
- ▶ Electronics / electrical engineering / semiconductors
- ▶ Precision mechanics
- ▶ Research and science
- ▶ Plastics technology
- ▶ Contract manufacturing
- ▶ Aviation and aerospace
- ▶ Optics
- ▶ Photovoltaics industry
- ▶ Sensors and measuring technology
- ▶ Safety technology
- ▶ Environmental control / monitoring
- ▶ Tool and machine manufacturing

### In addition:

Astronomy, lighting technology, chemistry, printing and reproduction, energy management, food analysis and manufacturing, pharmaceuticals, shipbuilding, textile industry, transport and logistics, defense technology as well as trade, skilled trades, services and public administration / government agencies.

All sectors at a glance:



[world-of-photonics.com/visitorprofiles](https://world-of-photonics.com/visitorprofiles)



## THEMATIC FOCUS?

### The future.

What is the distinguishing feature of LASER World of PHOTONICS? Its 360° view of the latest industry trends and technologies. And its outlook on future developments and trends. Be it additive manufacturing, sensor technology, imaging, medical technology or quantum technology: The world's leading trade fair offers **cross-sectoral insights** and explores potentials. For **Industry 4.0**—and your business.

#### SUCCESS IN NUMBERS— LASER WORLD OF PHOTONICS 2017

<b>55,000 m<sup>2</sup></b> of exhibition space	<b>1,290 exhibitors</b> from 43 countries	<b>32,700 visitors</b> from 73 countries
<b>5 halls</b>	<b>62%</b> international share	<b>58%</b> international share

### Biophotonics and medical technology

Ultra-high-resolution imaging and increasingly precise spectroscopy and laser systems are enabling an entirely new level of quality in diagnostics. On the one hand, physicians, biologists, chemists and pharma / material researchers profit from that. On the other, so do patients—thanks to minimally invasive techniques for gentler therapies.

### Imaging / sensors, test and measurement

Laser-based measuring and testing systems and optical sensors have been indispensable in manufacturing, medicine and science for quite some time—and they play an ever-increasing role as demand for precision and resilience increases. The advantages? Broader applications, better results, lower costs.

### Lasers and laser systems for production engineering

They optimize production and make processes more efficient. As high-performance tools in the macro- and micro-machining sector, lasers mainly give you one thing: a genuine competitive edge. As the largest fair for this exhibition sector, LASER World of PHOTONICS will demonstrate how your company can profit from that, too.

NEW

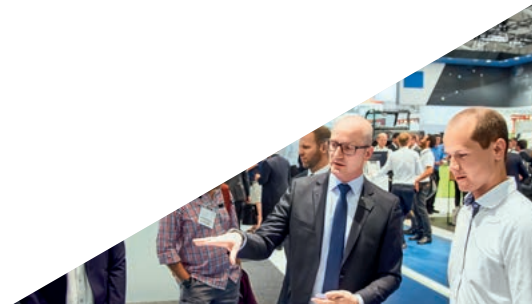
### Quantum technology

Quantum technology carries huge potential—be it in information processing, innovative sensors or simulations of complex systems. Here, photonics plays an important key role. You will learn more about the latest research strategies and cutting edge development of quantum sensors and quantum communication at the world's leading trade fair.

Focus on trends:



[world-of-photonics.com/focus-topics](https://world-of-photonics.com/focus-topics)





AS APPLICATION-ORIENTED

**as the trade fair itself:  
the supporting program.**

Scope that has plenty of depth. The **supporting program** of LASER World of PHOTONICS features thematic diversity and founded know-how—in all sectors. Whether it comes to first-rate lectures, application-oriented presentations or interactive events: everything here is about synergy. Between experts and audience members, theory and practice, information and action. And above all: about **concrete technical know-how** and **valuable impetus** for your company.

### The world's leading trade fair's supporting program

#### INFORMATION

- Photonics Forums:
- ▶ Laser Materials Processing
  - ▶ Biophotonics and Medical Applications / Optical Metrology and Imaging
  - ▶ Lasers and Optics



#### ACTION

- ▶ Special show  
"Photons in Production"
- ▶ Career Center
- ▶ Start-Up Award
- ▶ Innovation Award
- ▶ Guided Tours
- ▶ 14th International Laser Marketplace
- ▶ Makeathon

All lectures and events:



[world-of-photonics.com/program](http://world-of-photonics.com/program)

### State-of-the-art: the photonics forums

Perfectly equipped for a competitive environment. Thanks to their extensive lecture program and practice-oriented application panels, the Photonics Forums offer genuine added value: immediate market proximity.

#### Laser Materials Processing, Photonics Forum, Hall A3

- ▶ Modeling and simulation for laser material processing
- ▶ Opportunities and perspectives of industrial ultrashort pulse laser applications
- ▶ No electric mobility without laser technology
- ▶ Smart production of metal components with additive manufacturing
- ▶ Automation of laser applications
- ▶ Lasers in microelectronics: The future is digital
- ▶ Exhibitor presentations

#### Biophotonics and Medical Applications / Optical Metrology and Imaging, Photonics Forum, Hall B2

- ▶ Virtual / augmented / artificial reality in hospitals
- ▶ Imaging life: New trends and methods in laser illuminated microscopy
- ▶ Visions for future diagnostics—communicable diseases
- ▶ Improving LiDAR performance through advanced photonics technology
- ▶ Specific laser solutions for biotechnology applications
- ▶ Innovative optics and lasers in medicine
- ▶ Exhibitor presentations

#### Lasers and Optics, Photonics Forum, Hall B3

- ▶ Diode-pumped solid state lasers and fiber lasers
- ▶ Photonics 4.0
- ▶ Ultrashort pulse lasers and beam guidance
- ▶ High-power diode lasers: highly efficient beam sources for pump applications and direct processing
- ▶ Optical quantum technologies 1: sensor technology and computing
- ▶ Optical quantum technologies 2: imaging and communication
- ▶ Exhibitor presentations





NO MORE ATTENDANCE.

## Active participation.

Whether it comes to careers, safeguarding the future or product development: The LASER World of PHOTONICS agenda calls for action and includes a **number of opportunities** for **active participation**. For every target group. And every objective.

### Photons in Production, Hall A3

Special show in conjunction with the Institute for Machine Tools and Industrial Management at TU Munich (*iwb*), Bayerisches Laserzentrum Erlangen (*blz*) and the Institute of Photonic Technologies at University of Erlangen Nuremberg.

#### Topics:

- ▶ Process monitoring using optical coherence tomography
- ▶ Laser beam welding with blue light
- ▶ Interactive examination and measurement of laser beam processed parts
- ▶ Joining plastics with metals
- ▶ Manufacturing battery cells
- ▶ Additive manufacturing

### Career Center, Hall A3

For those reinventing themselves: Exhibitors' trainee, internship and job offers, tips for finding a job, applications and salary expectations as well as free coaching.

### Start-up program and

### European Photonics Venture Forum, Hall B2

Are you looking for new solutions? The Start-Up Joint Pavilion and BMWi stand give new, innovative companies from Germany and abroad a platform for company and product presentations, while the European Photonics Venture Forum directly promotes innovations, investments and partnerships.

### Start-Up Award, Hall B2

Honoring the outstanding new product developments of new, innovative companies in the photonics sector—including effective press and PR support.

NEW

### Innovation Award

Introducing a new award. The Innovation Award addresses all exhibitors at LASER World of PHOTONICS and will be granted to the most extraordinary innovation of 2019.

### Guided Tours, Tickets: West Entrance

Guided tours of the fair give visitors a targeted overview of one of the following topics:

- ▶ Current trends in laser beam drilling
- ▶ Guiding and shaping high-power laser radiation
- ▶ In-line laser beam welding process monitoring
- ▶ Laser beam welding in the visible wavelength range

### 14th International Laser Marketplace, Press Center West

From knowledge to knowledge transfer. Decision-makers from sales, development and marketing discuss the markets and trends in laser materials processing. A separate ticket is required to participate.

### Makeathon, Hall B2

Cooperate to excel. This is a software and hardware competition in which competing teams develop preliminary prototypes in 24 hours. Participants are teams of students and young engineers from different years.

Help shape the future:



[world-of-photonics.com/program](https://world-of-photonics.com/program)



# WORLD OF PHOTONICS CONGRESS

## THE SCIENTIFIC BASIS.

### For commercial success.

As the industry's **leading scientific platform**, the **World of Photonics Congress** provides comprehensive insights into the world of photonics and serves as an interface between theory and practice.

## Profile:

The following await you at one of the world's most modern convention centers in the scientific metropolis of Munich: **seven conferences** with more than 65 sub-conferences, more than **3,000 lectures** and poster sessions as well as **5,600 experts** from around the world.

## Speakers:

VIPs from science and industry, including Nobel Prize winners.

## Spectrum:

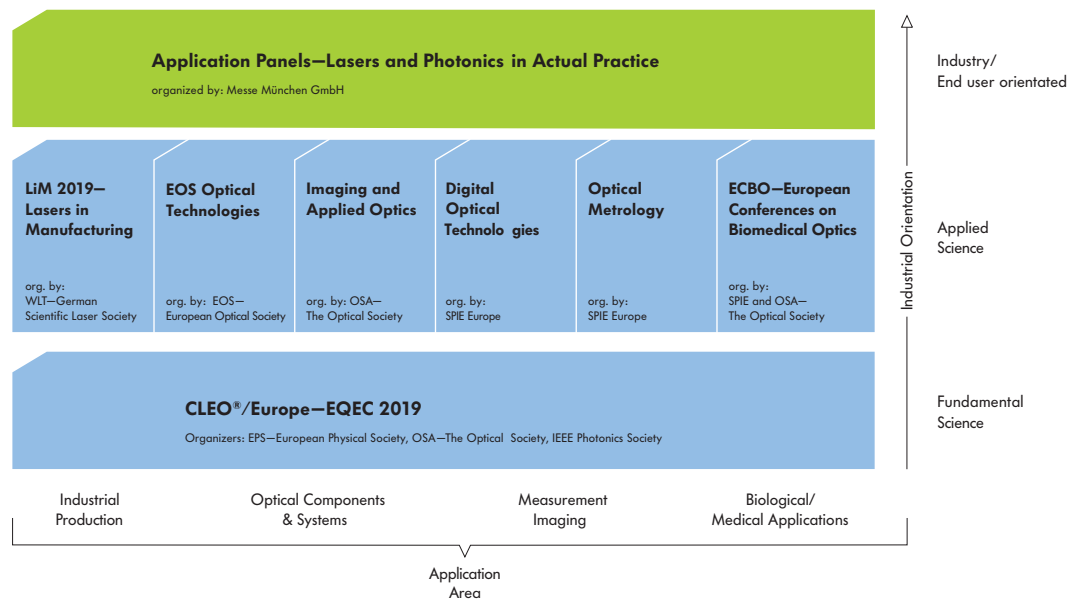
All aspects of optical technology—from basic research to applied science and solutions on the brink of reaching market maturity.

Theory meets practice:

## World of Photonics Congress 2019



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





## GOOD TO KNOW:

**the most important facts  
and figures.**

### Dates

#### **LASER World of PHOTONICS**

June 24–27, 2019

Messe München

#### **World of Photonics Congress**

June 23–27, 2019

ICM – Internationales

Congress Center München

### Trade fair opening hours

Monday: 09:00–17:00

Tuesday / Wednesday: 09:00–18:00

Thursday: 09:00–16:00

### Getting there

The trade fair center is easy to reach by car, airport shuttle or with public transportation. Lufthansa and Deutsche Bahn have special fares available to Munich. Additional information: [world-of-photonics.com/travel](http://world-of-photonics.com/travel)

### Accommodation

Munich is a popular travel destination, so we recommend booking early. A wide range of accommodation in various categories is available here: [world-of-photonics.com/accommodation](http://world-of-photonics.com/accommodation)

### App

Regularly updated information is available in the LASER World of PHOTONICS App and the World of Photonics Congress App. Installation: [world-of-photonics.com/en/app](http://world-of-photonics.com/en/app)

### Trade fair: ticket prices

LASER WORLD OF PHOTONICS	ONLINE REGISTRATION	AT THE FAIR
1-day ticket	EUR 54	EUR 65
2-day ticket	EUR 85	EUR 98
Permanent pass	EUR 105	EUR 120
Group ticket		EUR 25
Discount ticket		EUR 25
Laser Marketplace ticket	EUR 535.50 Early Bird* EUR 630.70 Regular	EUR 630.70

\* Early Bird tickets must be purchased by May 24, 2019

### Congress: ticket prices

WORLD OF PHOTONICS CONGRESS**	EARLY BIRD BY MAY 31, 2019	AT THE CONGRESS
Association member	EUR 560	EUR 650
Non-member	EUR 690	EUR 780
Student (member)	EUR 200	EUR 250
Student (non-member)	EUR 250	EUR 280
1-day congress ticket	EUR 255	EUR 320

\*\* Congress tickets include admission to all conferences and to LASER World of PHOTONICS

### Print@home-Ticket

Advantages: Attractive discount prices and no waiting when you arrive. Simply register online, print out your ticket and bring it with you. Book online—benefit offline:



[world-of-photonics.com/tickets](http://world-of-photonics.com/tickets)





PLANNING MADE EASY:

overview of the world's  
leading trade fair.

Experience the entire value chain of photonics live:  
the supporting program

Information

- 1 Photonics Forum, Hall B2:  
"Biophotonics and Medical Applications /  
Optical Metrology and Imaging"
- 2 Photonics Forum, Hall B3: "Lasers and Optics"
- 3 Photonics Forum, Hall A3: "Laser Materials Processing"

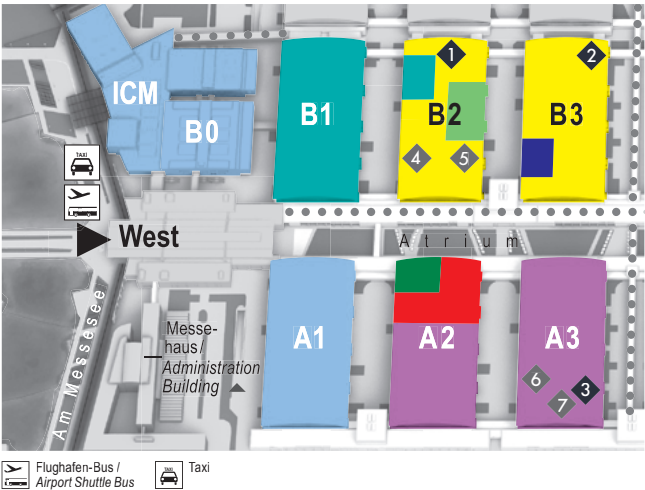
Action

- 4 Start-Up Pavilion, Hall B2
- 5 LASER World of PHOTONICS Makeathon, Hall B2
- 6 Career Center, Hall A3
- 7 Special Show "Photons in Production," Hall A3

Your meetings

Time	Hall	Contact

Fairgrounds map



- A2 Imaging
- A2 Sensors, Test and Measurement / Optical Measurement Systems
- A2/A3 Lasers and Laser Systems for Production Engineering
- B1/B2 Optics / Manufacturing Technology for Optics
- B2/B3 Lasers and Optoelectronics
- B2 Biophotonics and Medical Engineering
- B3 Optical Information and Communication
- A1/B0/ICM World of Photonics Congress

Fairgrounds map for download:

 [world-of-photonics.com/fairground](http://world-of-photonics.com/fairground)

