

## 13<sup>th</sup> International Laser Processing and Systems Conference ( LPC 2018 )

### I. About the conference

In order to promote the continuous innovation of laser technology in China, the 13th International Laser Processing Technology & Systems Conference will be held again in Shanghai. As an important part of the PHOTONICS CONGRESS CHINA, LPC is held in parallel to the trade fair LASER World of PHOTONICS CHINA every year. It has become not only the most authoritative laser academic event in Asia, but also a great platform for the cooperation with China's laser processing industry.

In the past year, the global laser industry and laser technology research had many new achievements, basically on the base of a broad range of applications such as Laser cutting, laser welding, surface functionalization and more lately in the field of ultrafast and ultrashort lasers as well as laser additive manufacturing. Many of these Processes have significant impact on high-tech development with strategic significance for the corresponding markets.

The process development and strategic improvement of productivity rely a lot on the parallel understanding of the processes and increasingly emphasis on Simulation and Modelling is visible in the research and application developments. Therefore, in the 2018 LPC special emphasis is laid on new processes and new beam sources, however also on methods and results in theoretical and practical Modelling and Simulation of classical end recent process development.

The 13<sup>th</sup> LPC conference aims to strengthen the laser industry and build up an international platform for the integration of production, teaching and research. It will focus on "Exploring Laser Frontier Technology and Promoting the Development of Laser Industry". The conference will show the latest developments of the global laser industry and introduce the latest applications of laser technology in various industries in China and abroad.

**Date:** March 14-15, 2018

**Venue:** Ballroom,6th Floor,Jumeirah Himalayas Hotel  
Shanghai New International Expo Center

### II. Organizing Committee

Organizers:

- Chinese Optical Society-Laser Processing Committee (COS-LPC)
- Messe München
- Laser Institute of America (LIA)



**General Conference Chairmen:**



Prof. Youliang Wang  
Chinese Optical Society - Laser  
Processing Committee



Prof. Reinhart Poprawe  
Fraunhofer Institute fuer Lasertechnik  
Aachen, Germany

**Executive Conference Chairmen**



Prof. Huaming Wang,  
Academician of  
Chinese Academy of  
Engineering, School  
of Materials Science  
and Engineering,  
Beihang University,  
China



Dr. Bo Gu,  
BOS Photonics,  
USA



Prof. Yongfeng Lu,  
University of  
Nebraska-Lincoln,  
USA









Prof. Dr. Dongdong Gu  
Vice Dean, College of  
Materials Science and  
Technology, Nanjing  
University of Aeronautics  
and Astronautics

**III. The Themes of the Conference**

- Ultrafast laser technology and applications
- 3D printing and surface modification
- New laser technology and systems and its application
- Laser monitoring system technology for welding, cutting and machining
- Micro-nano technology and processing
- New Lasers, beam sources
- Laser process simulation and modelling

#### IV. Partial Presentations

	<p>Prof. Dr. Reinhart Poprawe Director, Fraunhofer Institute for Laser Technology ILT</p>
	<p>Plenary: TBD</p>
	<p>Prof. Dr. Andreas Ostendorf Vice Rector for Research, Ruhr-University Bochum</p>
	<p>Plenary: Laser metal deposition (LMD) and in-situ alloying of powder blends</p>
	<p>Dr. Rajesh Patel Director of Applications Engineering, Spectra-Physics Lasers, MKS Instruments, Inc.</p>
	<p>Plenary: Laser Micromachining: Nano to Pico to Femto Second Pulses</p>
	<p>Prof. Dr. WONG Chee How Associate Dean (Academic), College of Engineering, Nanyang Technological University</p>
	<p>Plenary: 3D printing: past, present and future</p>

	<p>Prof. Dr. Dongdong Gu Vice Dean, College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics</p>
	<p>Prof. Dr. Michael Schmidt Director, Institute of Photonic Technologies, Friedrich- Alexander University of Erlangen-Nuremberg</p>
	<p>Prof. Dr. Stefan Kaierle Head of Materials &amp; Processes Department, Laser Zentrum Hannover e.V.</p>
	<p>Mike.Wang Vice General Manager &amp; CTO, Suzhou Everbright Photonics Co., LTD</p>
	<p>Plenary: High Power Semiconductor Lasers for Various Applications</p>

**V. Target audience:**

- Manufacturers of Lasers and Optoelectronics
- Laser Systems Integrators
- Colleges/Universities/Research Institutes
- Government and Investors
- Users of Lasers in: Tool Making/Mechanical Engineering, Electrical Engineering/Electronics/Semiconductor Industry, Metal/Material Processing, Data Processing/Telecommunications, Automotive/Shipbuilding
- Others (Service, Training, Software)

**VI. Registration fee**

**Special Offer:** RMB 398/person (Limited 100 seats, First come first served)

	Before Jan. 30	Before Feb. 28	Before Mar. 10
Registration Fee	RMB1000/person	RMB1200/person	RMB1400/person
Discount Price	RMB2000/3 person	RMB2400/3 person	RMB2800/3 person

**Contact:**

Chinese Optical Society-Laser Processing  
Committee (COS-LPC)

Ms. Sarah Zhang

Tel: +86-021-64852178

E-mail: [zhangly@chinalaser.org](mailto:zhangly@chinalaser.org)

Messe Muenchen Shanghai Co., Ltd.

Ms. Sherry Jin

Tel: +86-21-2020 5640

E-mail: [sherry.jin@mm-sh.com](mailto:sherry.jin@mm-sh.com)