



2017 Shanghai International Forum on Modern Optical Manufacturing Engineering and Sciences

Official website: <http://www.photonics-congress-china.cn/2017Modern-Optical.html>

Supporting exhibition: LASER World of PHOTONICS CHINA 2017 (<http://www.world-of-photonics-china.com.cn>)
(MARCH 14-15th, 2017, Shanghai New International Expo Centre)

1. Forum Topics

Optical manufacturing engineering and research is a new interdisciplinary science that covers optics, precision machinery, electronics, computer science, materials science, physics and chemistry. It is also closely connected to other applied disciplines as well. Optical manufacturing has become essential for various high-end industries and even national security. It is also an important part of the emerging industries in the world. The Made in China 2025 initiative has brought significant opportunities and new challenges to the optical manufacturing enterprises. There are unlimited business opportunities in optical manufacturing, AR technology and micro-nano optical technology.

In the information age, 80% of the outside world is perceived visually. VR / AR, as a new video display technology equipment, can integrate the virtual world and the real world perfectly. With the AR device, users can see and interact with the virtual objects in a real background. Experts from both the industry and the academia have predicted that AR equipment will replace the smart phone as the next-generation computing platform. AR optical technology integrates fields like optical design, optical manufacturing, computer science, graphic correction and display, large data analysis, visual perception and so on. It is applicable in a wide range of fields like advanced weapons, aircraft development, data visualization, medical research and anatomy training, precision instrument manufacturing and maintenance, military aircraft navigation, industrial design and remote robotics, virtual training, entertainment and arts. VR optical technology will create new business opportunities, new products and new markets, so as to create a new way of life.

Micro-nano optics is one of the most active frontiers in the development of optical engineering. It is the combination of nanotechnology and photonics, two major technologies in the 21st century. Interactions of light and matter will produce many new characteristics at the nanometer scale. Micro-nano optics has a wide range of industrial and defense applications, promising new and attractive device performance in optical communication, optical interconnect, sensor imaging, sensor measurement, display technology, biomedicine, data storage and solar energy. This forum provides a great platform for the exchange of ideas among scientists and technicians in micro/nano optical technology research, and a solid guarantee for the innovation of micro/nano optical research and industrial application in China.

In addition to advanced optical manufacturing, AR optics and micro/nano optical technologies, the forum will focus on the development of modern optical manufacturing technology as a new discipline. The forum will discuss on the optical manufacturing in defense technology, providing innovative thinking and know-how for China's optical manufacturing and defense technology.



2. Organization

Co-organizers:

Shanghai Ultra-precision Optical Manufacturing Engineering Center, Fudan University
Messe Muenchen (Shanghai) Co., Ltd

Organizers:

- Committee of Optical Manufacturing Engineering Center, Fudan University
- Messe München
- SPIE, USA (Technical Co-sponsor)

Co-Sponsored by:

- Fudan University
- China Optical Society Optical Testing Professional Committee
- Shanghai Zuoging Industrial Co., Ltd
- Soochow University
- Beijing Institute of Technology
- Nanjing University of Technology
- Nanjing University of Aeronautics and Astronautics
- Zhejiang University
- University of Shanghai for Science and Technology
- State Key Laboratory of Ultra-precision Machining Technology, Hong Kong Polytechnic University
- Institute of Optoelectronic Technology, Chinese Academy of Sciences
- Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences
- Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

In cooperation with:

- Carl ZEISS, Germany
- Segam, France
- Changchun UP Optotech Co. Ltd
- Full Spectrum Optronics Technology Shanghai

General Chairs: Prof. Junhua PAN, Academician; Prof. Songlin ZHUANG, Academician

Executive Chairs:

- Li YANG, Director, Committee of Optical Manufacturing Technology, COS
- Dr. Jinxue WANG, SPIE Fellow, USA
- Hongri Zhu, Director, Committee of Optical Testing Technology, COS
- Wangbi Lu, Project Director, Messe Muenchen Shanghai Co., Ltd

General Co-Chairs: Prof. Xiangang Luo, Prof. Min XU, Prof. Qiming XIN

Organizing Committee: Prof. Dasen WANG; Prof Dawei ZHANG

Program Committee: Prof Min XU, Prof Lingbao KONG, Prof Siqing LI

Secretary General of the Symposium: Prof. Fan WU, Dr Wei WANG

Forum Size: 300 people

3. Daily Event Schedule

Date	Time	Program
March 13th	10:00-18:00	Registration
March 14th	08:30-09:15	Registration Venue: N2-M42, SNIEC
	09:15-09:30	Opening Ceremony & Chairman Remarks
	09:30-12:00	Session 1: Development Trend for Optical Manufacturing Enterprise-- Optical Manufacturing Index
	13:30-17:30	Session 2: Optical Engineering and Science Revolution - New Breakthrough in VR / AR Optical Technology
March 15th	09:00-12:00	Session 3: Optical Engineering and Science Revolution - Breakthrough in Optical Functional Surface, Micro / Nano Fabrication Technology
March 15th	13:00-17:00	Session 4: Lectures on Advanced Optical Processing And Testing Equipment in Western Countries

4. Forum Program

3月14日上午,上海新国际博览中心 N2-M42 Am, March 14, Shanghai New International Expo Center N2-M42		
专题一：光学制造企业发展趋势预测分析报告-光学制造指数发布 Topic1: Development Trend for Optical Manufacturing Enterprise--Optical Manufacturing Index		
开幕式主持嘉宾 Opening Ceremony Chair：庄松林院士 Prof. Songlin ZHUANG, Academician 报告主持 Session Chair：杨力，中国光学学会光学制造技术专委会主任委员，中科院光电所研究员 Prof. Li YANG, Prof. Beijing Institute of Science and Technology		
时间 Time	演讲题目 Speech Title	演讲嘉宾 Speaker
08:30-09:15	大会嘉宾、参会代表报道 Registration for Delegates	
09:15-09:30	开幕式、会议主席致开幕辞：庄松林院士致祝贺辞，杨力主席致开幕辞 Opening Speech/words of congratulations: Songlin ZHUANG, Academician, Li YANG, President	
09:30-10:00	中国制造之光学制造基础挑战 China Made: Foundation Challenges Of Optical Manufacturing	罗先，中国科学院光电技术研究所副所长、研 究员，微细加工光学技术国家重点实验室主任 Xiangang LUO , Professor , Vice President of Institute of Optoelectronics, Chinese Academy of Sciences
10:00-10:30	光学制造年度报告与风向标 Annual Report And Wind Vane Of Optical Manufacturing	辛企明，教授，北京理工大学 Qiming XIN, Professor, Beijing Institute of Technology
10:30-11:00	德国光学制造技术的发展与国家发展 The Development of German Optical Manufacturing Technology And National Development	Hexin Wang，副总裁，德国 Zeiss 中国 Hexin WANG, Vice President, ZEISS

11:00-11:30	超精密光学器件的应用 Application of Ultra - precision Optical	王大森，教授，中国北方集团超精密制造中心主任 Dasen WANG, Professor, China North Group Ultra Precision Manufacturing Center Director
11:30-12:00	AR 技术的市场以及发展局限 AR Technology Market and Development Limitations	张明军，总裁，ArinCHINA Mingjun ZHANG, President, ArinCHINA
	茶歇随会议提供	

3 月 14 日下午,上海新国际博览中心 N2-M42 Pm, March 14, Shanghai New International Expo Center N2-M42

专题二：光学工程与科学前沿进展技术革命-- VR/AR 光学技术新突破篇

Topic 2 : Optical Engineering and Science Revolution - New Breakthrough in VR / AR Optical Technology

主持嘉宾 Session Chair	倪国强，中国光学学会副理事长 Guoqiang NI, Vice Director-General, COS 罗先刚，中科院光电所副所长、研究员，微细光学制造技术国家重点实验室主任 Xiangang LUO , Professor , Vice President of Institute of Optoelectronics, Chinese Academy of Sciences	
14:00-14:40	AR 技术的发展趋势 The Development Trend Of AR Technology	Ben Weinberger，技术总监，以色列 LUMUS Ben Weinberger, Technical Director, LUMUS, Israel
14:40-15:20	移动端的 AR 技术的突破 Mobile Side Of The AR Technology Breakthrough	David A. Smith，教授，美国 Chicago 大学 David A. Smith, Professor, University of Chicago
15:20-15:50	AR 核心技术的突破 AR Core Technology Breakthrough	虞晶怡，教授，上海科技大学 Yingyi YU, Professor, Shanghai University of Science and Technology
15:50-16:30	AR 的应用前景与发展 Prospect And Development of AR	盛永江，副总裁，水晶光电 Yongjiang SHENG, Vice President, Crystal optoelectronics
16:30-17:00	AR 光学设计与制造技术 AR Optical Design And Manufacturing Technology	程德文，教授，北京理工大学 Dewen CHENG, Professor, Beijing Institute of Technology



3月15日上午,上海新国际博览中心 N2-M42 Am, March 15, Shanghai New International Expo Center N2-M42

专题三：光学工程与科学前沿进展技术革命--光学功能结构表面、微纳制造技术突破篇

Topic 3: Optical Engineering and Science Revolution - Breakthrough in Optical Functional Surface, Micro / Nano Fabrication Technology

主持嘉宾 Session Chair：伍凡，中科院光电所研究员，光学制造技术专委会秘书长

Prof. Fan WU, Researcher, The Institute of Optics and Electronics, Chinese Academy of Science

王大森，中国北方工业集团，超精密制造中心主任

Dasen WANG Director, Ultra - Precision Manufacturing Center, China North Group

09:30-10:00	米级光栅制造 Meter-level Grating Manufacturing	吴建宏，教授，苏州大学 Jianhong WU, Professor, Suzhou University
10:00-10:30	微纳定位技术在光学领域的应用 The application of Micro-nano Positioning Technology in The Field of Optics	刘品宽，教授，上海交通大学 Pinkuan LIU, Professor, Shanghai Jiaotong University
10:30-11:00	超精密微纳技术 Ultra - precision Micro - nano Technology	Dr.Zhixin Li，教授，英国Microsharp Dr.Zhixin Li, Professor, Microsharp Innovation, UK Company
11:00-11:30	采用激光纳米测长实现高精度光学角规测试、计量、溯源及工程应用 Realization Of High Precision Optical Angle Gauge Test, Metrology, Traceability And Engineering Application By Laser Nano-length Measurement AR	林家明，教授，北京理工大学 Jiaming LIN, Professor, Beijing Institute of Technology
11:30-12:00	椭偏仪原理与超薄层状纳米材料测量应用 Application Of Ellipsometer Principle And Ultra - thin Lamellar Nano - materials	刘世元，教授，华中科技大学 Shiyuan LIU, Professor, Huazhong University of Science and Technology

3月15日下午,上海新国际博览中心 N2-M42 Pm, March 15, Shanghai New International Expo Center N2-M42

专题四：国外先进光学加工与检测装备讲座 (Facility Workshop)

Topic 4: Lectures on Advanced Optical Processing And Testing Equipment in Western Countries

主持嘉宾 Session Chair: 辛企明, 教授, 北京理工大学

Qiming XIN, Professor, Beijing Institute of Technology

张祥朝, 研究员, 复旦大学

Xiangchao ZHANG, Professor, Fudan University

13:00-13:30	非球面、自由曲面轮廓量测解决方案 Aspherical, Free-Form Surface Profile Measurement Solution	太平毅, 总经理, Panasonic 日本 Taipingyi, General Manager, Panasonic, Japan
13:30-14:00	超高精度非球面加工设备 Ultra-High Precision Aspheric Processing Equipment	胡毅, Toshiba Yi HU, Toshiba
14:00-14:30	模压技术应用 mould pressing Technology Application	徐小彬, SYS / GMP Xiaobin XU, SYS / GMP
14:30-15:00	手机、车载、安防摄像头的高精度自动组装解决方案 High-Precision Automatic Assembly Solution For Mobile Phones, Car, Security Cameras	王天行, 销售总监, 台湾元利盛 Tianxing WANG, Sales Director, Evest, Taiwan
15:00-15:30	新型高精度塑料非球面镜片成型解决方案 Solutions For New High Precision Plastic Aspherical Lens	丁华亮, 台湾 FANUC Hualiang DING, FANUC Taiwan
15:30-16:00	模压成型镜片、塑料非球面镜片内应力量测解决方案 Measurement Of Internal Stress For Molded-In Lenses, And Plastic-Coated Spherical Lenses	城间道则, 总经理, 日本 Photonic / Mitak Chengjiandaoze, General Manager, Photonic / Mitaka, Japan
16:00-16:30	成像系统光学量测解决方案 Measurement Solution For Imaging System	唐慈津, Trioptics Cijin TANG, Trioptics
16:30-17:00	新型摄像头模组激光喷锡焊接技术 Press Conference Of New Optical Glass	林毅, 艾贝特 Yi LIN, ABT

5. Registration (Website:<http://www.photonics-congress-china.cn/2017Modern-Optical.html>)

Kind Reminder: Please register before 13 March 2017 to ensure successful registration.

(1) Registration Fee

Normal price

Delegate: RMB 2000; Student (with student ID card): RMB 1500.

Early Bird price:

Delegate: RMB 1500 (before 10 March 2017); Student (with student ID card): RMB 1200.

Registration fee covers forum materials and lunch coupons.

Working language: Chinese. No simultaneous interpretation offered for English lectures.

(2) Payment

Bank Information:

Industrial and Commercial Bank of China (ICBC) Shanghai Branch, No. 2 Business Department

Account name: Messe Muenchen Shanghai Co., Ltd.

Account Number: 1001 1907 0901 6219 311

6. Contact

Fudan University

Miss Fang YU, Email: yufang@fudan.edu.cn Tel: 13817978975

Dr. Wei WANG, Email: wei_w11@fudan.edu.cn Tel: 13817896146

Messe Muenchen Shanghai Co., Ltd.

Miss Lei DAI, Email: arrow.dai@mm-sh.com Tel: 021-20205500-848 (O) 15800343304

Miss Fei YAN, Email: annie.yan@mme-shanghai.com Tel: 021-20205500-887 (O) 13761088455

Committee of Optical Manufacturing Technology, COS

Prof. Li YANG, Email: yangli@ioe.ac.cn Tel: 028-85100583 (O) 13608090778



Committee of Optical Manufacturing Technology, COS

Organization Committee of

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