

2018 “中国光学智造2025”（上海）高端论坛

2018 Optical Made in China 2025 (Shanghai) Summit Forum

同期展会 Concurrent Events : 慕尼黑上海光博会 LASER World of PHOTONICS CHINA

时间 Date : 2018年3月14-15日 14-15 March 2018

地点 Venue : 上海新国际博览中心W3-M10 W3-M10 SNIEC

一、会议前言 Preface

先进光学制造业已成为世界性新兴产业，成为主要发达国家以智能化为主线的新工业革命的重要组成部分，当然也已融入“中国制造2025”发展规划之中。这必将为光学及光机技术带来重大发展机遇和新的挑战，也是当代中国光学工作者面临的一次重大机会。

Advanced optical manufacturing has become an emerging industry worldwide. It is an important part in the New Industrial Revolution led by smart technology. Therefore, China has included optical manufacturing in “Made in China 2025” program. Such a move will bring important opportunities and new challenges to the optical and opto-mechanical technology. It is also an important opportunity for the optical professionals.

“中国光学智造2025”（上海）高端论坛2018，以“高端、精品、简约、接地”为特色，专注产、学、研、用相结合，为各界共同关注的国际高端学术盛典，深受学界和业界的广泛关注和青睐。本次论坛将以光学自由曲面和微结构阵列表面的制造为主题，继续关注当代光学智造工程与科学领域的前沿学术技术热点。光学自由曲面和微结构阵列表面的应用正在推动着消费类电子、成像显示、LED照明、国土安全、医疗设备、新能源和计算机技术等各种前沿领域技术的发展和进步。为了促进国内外光学自由曲面和微结构阵列表面制造领域同行的交流，推动我国在该领域的提高和发展，本次论坛特邀两院院士、首席科学家、以及科技前沿领军学者，报告当前我国该领域的最新研究进展。还诚邀世界名企、光学精英，买家与卖家同场相遇，聚焦热点，名家荟萃，切磋交流，解决产、学、研、用各界的实际需求。

“Optical Made in China 2025” is a “high-end, high-quality, concentrated and practical” international academic event that aims to bring together people in the manufacturing, training, research and practical applications fields. It is a high-end international academic event highly applauded by the research and industrial fields. The summit forum will focus on Optical Free-form Surface and Micro-structure Array Surface Manufacturing Technology, as well as hot topics in the modern smart optical manufacturing engineering and scientific research. The applications of optical free-form surface and micro-structure array surface are driving developments in consumer electronics, imaging, LED lighting, homeland security, medical equipment, new energy and computer technology. To promote the exchange between colleagues working in the optical free-form surface and micro-structure array surface technologies, the summit forum will invite academicians, chief

scientists and leading scholars to report on the latest research findings in optical designing and manufacturing. It will also invite leading enterprises, optical professionals, buyers and sellers to the same spot and discuss on solutions to the real needs in different fields.

朋友们，2018年春回大地之际，浦江之畔，“中国光学智造2025”（上海）高端论坛2018，期待您的合作与光临！

My friends, when spring is returning, “Optical Made in China 2025” is looking forward to your attendance and cooperation by Huangpu River when the spring is approaching.

二、组织架构 Structure:

主办单位 Organizers :

复旦大学 Fudan University

香港理工大学 Hong Kong Polytechnic University

上海理工大学 University of Shanghai for Science and Technology

中国工程物理研究院 China Academy of Engineering Physics

中国科学院长春光学精密机械与物理研究所 Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences

慕尼黑博览集团 Messe München

合作主办 Co-sponsors :

哈尔滨工业大学 Harbin Institute of Technology

吉林大学 Ji Jilin University

美国俄亥俄州大学 The Ohio state University USA

西安交通大学 Xi'an Jiaotong University

美国普渡大学 Purdue University USA

中国科学院上海光学精密机械研究所

Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

天津大学 Tianjing University

上海大学 University Shanghai

北京理工大学 Beijing Institute of Technology

北京空间机电研究所 China Academic of Space Technology

承办单位 Co-sponsors:

复旦大学上海超精密光学制造工程技术研究中心

Shanghai Engineering Research Center on Ultra-Precision Optical Manufacturing

慕尼黑展览（上海）有限公司 Messe Muenchen Shanghai Co.,Ltd.

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重庆孚马/ 南京天文光学仪器研究院/ 美国Ametech

Co-sponsors: Zeiss/ / Jiaguang Optics/ Sunny/ Chance/ Yongxin/
Wavelength/ FUMA/ Nanjing Institute of Astronomical Optics &
Technology/ Ametech

会议主席：庄松林 院士、潘君华院士
General Chairs: Prof. Songlin Zhuang, Prof. Junhua Pan
执行主席：徐敏
General Chairs: Xu Min
共主席：岳晓斌 杜雪
General Co-Chairs: Xiaobin Yue, Sandy Suet To
组委会主席：张大伟
Organizing Committee: Dawei Zhang
秘书长：孔令豹、王伟
Secretary General: Lingbao Kong, Wei Wang
会议规模：300人
Attendees: 300 persons
会议:1800/人 3月10日前优惠

三、活动安排 Arrangement

日期 Date	时间 Time	日程 Agenda
3月14日	08:30-09:15	大会嘉宾、参会代表报到 Registration for Delegates
	09:15-09:30	开幕式、会议主席致辞 Opening Speech/ Words of Congratulations
	09:30-12:00	专题一：光学中国制造企业发展高峰对话（光学企业家院士） Topic 1: China Optics Manufacturing 2025 Dialogue Chair by Academician and famous optical enterprisers
	13:30-16:50	专题二：自由曲面/功能结构微阵列的设计与制造核心技术 Topic 2: Design and Core Technology of Free-form Surface/Functional Structure Micro-Array
3月15日	09:30-12:00	专题三：自由曲面/功能结构微阵列的测量技术瓶颈突破 Topic 3: Breakthrough in the Measurement of Free-form Surface/Functional Structure Micro-Array
	13:00-17:00	专题四：自由曲面/功能结构微阵列的新颖性与系统应用与技术发展展望 Topic 4: New Features and Applications of Free-form Surface/Functional Structure Micro-Array and Prospects

四、会议日程 Agenda

<p>专题一：光学中国制造企业发展高峰对话（光学企业家院士） Topic 1: China Optics Manufacturing 2025 Dialogue Chair by Academician and famous optical enterprisers 3月14日08:30-16:50 上海新国际博览中心W3-M10</p>		
<p>开幕式主持嘉宾 Opening Ceremony Chair Prof. Junhua pan 潘君骅 院士 报告主持 Session Chair Prof. Sandy Suet To 杜雪 教授</p>		
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 Opening Speech/ Words of Congratulations	
09:30-10:30	<p>光学中国制造企业发展高峰对话 Panel discussion on China Optics Manufacturing 2025 Chair by Academician/specialists and famous optical entrepreneurs</p>	<p>主席：庄松林院士、潘君骅院士、徐敏教授 舜宇光学、水晶光电、嘉光集团、永新光电、蓝特光学、宇迪光学、恒益光学</p>
10:30-11:00	院士、专家、全体与会代表集体照片	
11:30-13:00	<p>光学产业核心技术发展机遇 Core Technology development of optics industry</p>	<p>院士专家与会代表圆桌对话 Roundtable dialogue with Academician and Specialists</p>
<p>专题二：自由曲面/功能结构微阵列的设计与制造核心技术 Topic 2: Design and Core Technology of Free-form Surface/Functional Structure Micro-Array 3月14日 13:30-16:50 上海新国际博览中心W3-M10</p>		
<p>主持嘉宾 Chair: Xin Zhang, Researcher, Changchun Institute of Optics 张新, 研究员, 长春光机所</p>		
13:45-14:20	<p>光学微纳结构曲面研究与应用现状 The research and application of optical micro nano structure surface</p>	<p>冀世军 教授 吉林大学 Prof. Shijun Ji Jilin University</p>
14:20-14:55	<p>微阵列在iPhone8中的应用以及设计与制造 The Applications, Design and Manufacturing of Micro Arrays in iPhone 8</p>	<p>Zhixin Lee, President, Microsharp UK Zhixin Lee, President, Microsharp UK</p>
14:55-15:30	<p>Micro-lens Technology and its applications</p>	<p>戴维教授 英国杜克大学 Prof. David Roberson University of Duran UK</p>
15:30-16:05	<p>硫系镜片衍射面的制造技术难点 Difficulties in the Processing of Diffraction Surface of Chalcogenide Lenses</p>	<p>陈惠广舜宇光电 General Manager</p>
16:05-16:40	<p>二维纳米结构非线性光学效应及其应用 Nonlinear optical effects and application in 2D nanostructures</p>	<p>王俊研究员 上海光机所 Dr. Jun Wang Shanghai SIOM</p>

16:40-17:15	超光滑光学平面的绝对测量 Absolute Measurement of Optical Flat with Super-High Accuracy	韩森 上海理工大学 Sen Han , Professor , University of Shanghai for Science and Technology
	茶歇 Tea Break	

专题三：自由曲面/功能结构微阵列的测量技术瓶颈突破 Topic 3: Breakthrough in the Measurement of Free-form Surface/Functional Structure Micro-Array 3月15日 09:30-12:00 上海新国际博览中心W3-M10		
主持嘉宾 Chair: 韩森，教授，上海理工大学 Sen Han , Professor , University of Shanghai for Science and Technology		
09:00-09:30	自由曲面的荧光共焦显微测量技术 Fluorescent confocal measurement of freeform surfaces	刘俭 Prof Jian Liu 哈尔滨工业大学 Harbin Institute of Technology
09:30-10:00	用于光学超分辨测量的微结构研究 Micro structures for optical super-resolution measurement	杨树明 Prof Shuming Yang 西安交通大学 Xi' an Jiaotong University
10:00-10:30	微结构的数字全息测量技术 Digital Holographic measurement of micro-structures	张祥朝, Prof Zhang Xiangchao, 复旦大学 ,Fudan University
10:30-11:00	超快显微镜三维成像的二元散焦方法 Superfast microscope 3D imaging using binary defocusing methods	张松 教授Prof. Zhang Song 美国普渡大学 Purdue University USA
11:00-11:30	基于超精密机床的光学自由面原位测量方法 In-site measurement of optical freeform surface based on ultra-precision machine	张效栋 Prof Xiaodong Zhang 天津大学, Professor, Tianjing University
11:30-12:00	车间光学测量中的干涉拼接技术 Stitching interferometry for optics testing in Workshop	于瀛洁教授 Prof. Yu Yingjie 上海大学精密机械工程系 Dept.of Precision Mechanical Engineering Shanghai
	茶歇 Tea Break Served	
专题四：自由曲面/功能结构微阵列技术的发展展望 Topic 4: Prospects for the Free-form Surface/Functional Structure Micro-Array Technology 3月15日 13:30-17:00上海新国际博览中心W3-M10		
主持嘉宾 孔令豹 研究员 上海复旦大学 Chair: Research, Dr.Lingbao Kong Shanghai Fudan University		

13:30-14:10	超精密自由曲面加工及其应用 Ultra-precision freeform machining and its application	Dr. Wang WenKui The Hong Kong Polytechnic University
14:10-14:50	微透镜阵列的热成型技术与分析 Technology and analysis of thermomring of micro-lens Arrays Core Technology in the Design of Optical Free-form Surface	Allen Yi The Ohio state University USA
14:50-15:30	LD光束整形的自由光学 Freeform optics for LD beam shaping	Prof. Feng Zhexin 北京理工大学 Beijing Institute of Technology
15:30-16:10	超精密制造的创新性解决方案 Innovative Solutions in Ultra-Precision Manufacturing	Jon Harman, 销售总监, AMETEK Precitech Jon Harman, Sales Director, AMETEK Precitech
16:10-16:50	空间光学元件加工与检测 Machining and Measurement of space Optics	张继友研究员 Researcher Jiyou Zhang 北京空间机电研究所 China Academic of Space Technology
16:50-17:30	LED投影仪设计中的自由折射光学 Freeform refractive optics in LED projector design	Mr. Man For Diffractive Optics LTD Hong Kong
	茶歇 Tea Break	
	关注慕尼黑光学精密制造微信号, 手机摇一摇中大奖, 参会有精致礼品 Follow the Messe Muenchen Optical Precision Manufacturing wechat account; shake your phone to win a prize; free gifts for participants	

五、会议注册 Summit registration :

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为方便代表参会并保证会议交流质量, 建议大家提前汇款注册, 至少应在3月14日报到日注册。

To facilitate your attendance and ensure the quality of your exchange, we advise all participants register and pay in advanced (before Mar. 14).

- **参会代表会务费 Registration fee :**

参会代表会务费 : 1800元, 学生 (凭学生证) : 1300元。

For representatives: CNY 1,800; For students (with student ID card): CNY 1,300.

- **提前汇款优惠 Early-bird discounts :**

2017年3月11日前交费：参会代表会务费：1500元，学生（凭学生证）：1000元。

含会议资料、午餐券，会议工作语言中文，英文报告不提供同声传译。

Pay before Mar. 11, 2017: For representatives: CNY 1,500; For students (with student ID card): CNY 1,000.

Conference materials and lunch coupons are included in the registration fee. The working language is Chinese. No interpretation is provided for reports made in English.

- 汇款信息

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“中国光学智造2025”（上海）高端论坛2018组委会
Organization Committee of Optical Made in China 2025

2018年1月

January 2018