AOMATT 2018

CALL FOR PAPERS

International Symposium on Advanced Optical Manufacturing and Testing Technologies (AOMATT) is a well-known international conference. Since its foundation in 2000, AOMATT has grown into the major conference in the field of the design, manufacturing, and testing of optical components and systems. The past conferences invited international well-known professors to do plenary presentations, such as Prof. Eric Mazur (Harvard University), Dr. Harald Giessen (University of Stuttgart), Dr. H. Philip Stahl (NASA Marshall Space Flight Center) and so on. The 9th AOMATT will be held in the beautiful city of Chengdu, China, during June 26-29, 2018. It features high quality plenary presentations by leading experts, parallel oral sessions, poster sessions, banquet, and tours to local attractions. All accepted papers will be published in SPIE Proceedings and SPIE Digital Library. SPIE Proceeding papers are indexed by major scientific and engineering databases including INSPEC, EI Compendex, International Aerospace Abstracts, etc.

I. Important Dates

Abstract Due: April 30, 2018
Manuscript Due: June 20, 2018
Symposium Date: June 26-29, 2018

II. Symposium Organization

Sponsors

The Chinese Optical Society (COS)
Institute of Optics and Electronics (IOE), Chinese Academy of Sciences (CAS)

Technical Co-sponsor

SPIE-The International Society for Optical Engineering

Supported by

Ministry of Science and Technology of China
Chinese Academy of Sciences
National Natural Science Foundation of China

Symposium Honorary Chair

Bingkun Zhou, Academician, Chinese Academy of Sciences; Former President of COS
Guangcan Guo, Academician, Chinese Academy of Sciences; Former president of COS

Symposium General Chair

Liwei Zhou, Academician, Chinese Academy of Engineering; Beijing Institute of Technology
Qihuang Gong, Academician, Chinese Academy of Sciences; President of COS; Peking University

Organizer

Committee of optical manufacturing technology, Chinese Optical Society (COS)
《Opto-Electronic Advances》
《Opto-Electronic Engineering》

III. Plenary Talk

Henri Lezec, The National Institute of Standards and Technology (USA)
Min Gu, Royal Melbourne Institute of Technology University (Australia)
Reinhart Poprawe, Fraunhofer Institute for Laser Technology (Germany)
William T. Plummer, Massachusetts Institute of Technology (USA)
Adrian Russell, European Organisation for Astronomical Research in the Southern Hemisphere (Germany)
Baoyan Duan, Xidian University

IV. Conferences and Chairs

Conference 1: Large Mirror and Telescopes

Wenhan Jiang, Academician, Chinese Academy of Engineering; Institute of Optics and Electronics, CAS
Myung K. Cho, National Optical Astronomy Observatory (USA)
Hao Xian, Institute of Optics and Electronics, CAS
Bin Fan, Institute of Optics and Electronics, CAS

Please submit papers on the following and related topics to this conference.

- Mirrors for large astronomical and space telescopes
- Light-weighted mirror technology
- Large deployable mirror and telescopes
- New and innovative mirror and telescope designs
- Advanced testing methods for large mirror

- Support systems and structures
- New material for large mirrors
- Innovative concepts and designs

Conference 2: Advanced Optical Manufacturing Technologies

Junhua Pan, Academician, Chinese Academy of Engineering; Soochow University

William T. Plummer, Member of the National Academy of Engineering, WTP Optics. Inc. (USA)

Shengyi Li, National University of Defense Technology

Qiao Xu, China Academy of Engineering Physics

Please submit papers on the following and related topics to this conference.

- Advanced optical manufacturing technologies
- Aspheric optics design, manufacturing and testing
- Ultra-precision freeform surfaces design, manufacturing and Testing
- Super-precision optical manufacturing
- Optical thin film coatings
- Advanced diamond turning technology
- Magnetorheological optical processing
- Advanced ion beam finishing and atmospheric plasma technology
- EEM (Elastic Emission Machining) and CVM (Chemical Vaporization Machining) processing technology for super smooth surface with atomic lever
- Optical design and simulation software and tool
- Optoelectronics components and modules integration and manufacturing
- Opto-mechanical components and devices
- Laser manufacturing technology and equipment

Conference 3: Optical Test, Measurement Technology and Equipments

Yudong Zhang, President of Chengdu Branch of Chinese Academy of Sciences

Wei Gao, Tohoku University (Japan)

Min Xu, Fudan University

Please submit papers on the following and related topics to this conference.

- Test for optical freeform surface
- Test for aspheric optical surface
- Test for super- precision optical surface
- Measurement for super smooth surface
- Measurement of optical thin film
- Test with infrared technologies
- Optical contamination
- Optical test and measurement for nanometer technology
- New and innovative metrology and equipment
- Analysis and modeling tools and software

Conference 4: Micro/Nano Optics and Subwavelength Electromagnetics

Xiangang Luo, Institute of Optics and Electronics, CAS

Min Gu, Royal Melbourne Institute of Technology University (Australia)

Stefan Maier, Imperial College London (UK)

Henri Lezec, National Institute of Standards and Technology (USA)

Xiaodi Tan, Beijing Institute of Technology

Reinhart Poprawe, Fraunhofer Institute for Laser Technology (Germany)

Ting Xu, Nanjing University

Yongfeng Lu, University of Nabraska-Lincoln (USA)

Zheyu Fang, Peking University

Xinbin Cheng, Tongji University

Zinan Wang, University of Electronic Science and Technology of China

Please submit papers on the following and related topics to this conference.

- Micro/Nano manufacturing technology
- Super-resolution imaging and high sensitivity sensing
- Surface plasmons and metamaterials
- Metasurfaces and plane optics
- Nonlinearity, quantum and topological optics
- Subwavelength electromagnetic
- Fiber-optic waveguide microstructure

Conference 5: Meta Surface-wave and Surface Plasmon Lithography

Minghui Hong, National University of Singapore (Singapore)

Mohsen Rahmani, Australian National University (Australia)

Song Hu, Institute of Optics and Electronics, CAS

Changtao Wang, State Key Laboratory of Optical Technologies on Nano-Fabrication and Micro-Engineering, Institute of Optics and Electronics, CAS

Xiaoliang Ma, State Key Laboratory of Optical

Technologies on Nano-Fabrication and Micro-Engineering, Institute of Optics and Electronics, CAS

Please submit papers on the following and related topics to this conference.

- Super-resolution imaging
- Super-resolution lithography
- Vectorial electromagnetic manipulation
- Ultra-thin absorption
- Metasurface antenna
- Liquid crystal based light control technology

(Chair：Qing Zhao, University of Electronic Science and Technology of China）

Conference 6: Extreme Manufacturing Technology

Xuanming Duan, Chongqing Institute of Green and Intelligent Technology, CAS

Lin Li, University of Manchester (UK)

Dicheng Li, Xi'an Jiaotong University

Lan Jiang, Beijing Institute of Technology

Wenwu Zhang, Institute of Advanced Manufacturing, Ningbo Institute of Industrial Technology, CAS

Please submit papers on the following and related topics to this conference.

- Manufacturing with extreme condition
- Manufacturing for extreme scale
- Manufacturing with complex energy source
- Manufacturing for complex structures
- Manufacturing in orbit (zero-gravity)
- 4-dimension printing technology
- Application of extreme manufacturing

Conference 7: Innovative Manufacturing Technology

Xingjiang Liu, China Electronics Technology Group Corporation

Xiaodong He, Harbin Institute of Technology

Rui Zhou, Xiamen University

Please submit papers on the following and related topics to this conference.

- Biological manufacturing
- Multi-scale manufacturing
- Flexible manufacturing
- Intelligent manufacturing
- Bionic manufacturing
- Virtual fusion manufacturing
- Green manufacturing

Conference 8: Flexible Materials and Devices

Wei Huang, Northwestern Polytechnical University

Yonggang Huang, Northwestern University (USA)

Xue Feng, Tsinghua University

Please submit papers on the following and related topics to this conference.

- Flexible, stretchable and curved optoelectronic devices and systems
- Wearable devices
- Implantable devices
- Degradabie devices
- Bio-inspired and bio-mimetic devices
- Optical neural interfaces
- Optoelectronic devices for biomedical systems

Conference 9: Optoelectronic Materials and Devices for Sensing and Imaging

Yadong Jiang, Dean of School of Optoelectronic Information, University of Electronic Science and Technology of China

Bernard Kippelen, Vice Director, Center of Organic Photonics and Electronics, Georgia Institute of Technology (USA)

Junsheng Yu, State Key Laboratory of Electronic Thin Films and Integrated Devices

Conference 10: Workshop

Yao Zhang, **Yongjiang Sheng**

V. Abstract Submission Information

Please submit your abstracts online at http://www.aomatt.org/

Your abstract must include all of the following information:

1. PAPER TITLE
2. AUTHORS (The first author)

- First (given) Name (initials not acceptable)
- Last (family) Name
- Affiliation
- Mailing Address
- Telephone Number
- Fax Number
- Email Address

- Mobil Number

3. PRESENTATION PREFERENCE

   "Oral Presentation" or "Poster Presentation"

4. PRINCIPAL AUTHOR'S BIOGRAPHY
   (Approximately 50 words)
5. ABSTRACT TEXT (Approximately 300 words)
6. KEYWORDS (Maximum of five keywords)

VI. Manuscript Submission Information

Authors of accepted papers (oral and poster) will receive notifications and instructions on manuscript submission to SPIE directly. Manuscripts must follow the Format Template available for download at www.aomatt.org

VII. Contact

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For updated symposium information, registration, hotel, etc., please visit symposium web page at http://www.aomatt.org/, or http://www.ioe.ac.cn/

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