



AOMATT 2018

CALL FOR PAPERS

The 9th International Symposium on Advanced Optical Manufacturing and Testing Technologies (AOMATT 2018) will be held in the beautiful city of Chengdu, China, June 26-29, 2018. AOMATT is a well-known international symposium on the design, manufacturing, and testing of optical components and systems. 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: March 30, 2018
Manuscript Due: June 30, 2018
Symposium Date: June 26-29, 2018

II. Symposium Organization

Sponsors

COS- The Chinese Optical Society (COS)
IOE- 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
Guangan Guo, Academician, Chinese Academy of Sciences; Former president of COS

Symposium General Chair

Liwei ZHOU, Academician, Chinese Academy of Engineering; Professor, Beijing Institute of Technology

Symposium General Co-Chair:

Jianlin CAO, Former Vice Minister of China Ministry of Science and Technology

Qihuang Gong, Academician, Chinese Academy of Sciences

Yuwen Qin, Director of Department of Information and Technology of National Science Foundation Committee

Reinhart Poprawe, Fraunhofer Institute for Laser Technology ILT

Libin Xiang, Vice president of Chinese Academy of Sciences

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

Enhui Liu, Director, Institute of Optics and Electronics, Chinese Academy of Sciences (Chair)

Hu Yang, Vice Director Institute of Optics and Electronics, Chinese Academy of Sciences

Local Co-Sponsor

China Academy of Engineering Physics
University of Electronic Science and Technology of China
Sichuan University (China)

Co-Sponsor

Fudan University
Tsinghua University
Nanjing University
National University of Defense Technology
University of Electronic Science and Technology of China
State key lab of optical technologies on Nano-Fabrication and Micro-Engineering
Key lab of adaptive optics, CAS
Key lab of Optical Engineering, CAS
Changchun Institute of Optics Fine Mechanics and Physics, CAS
University of Shanghai for Science and Technology
Beijing Institute of Technology
Changchun University of Science and Technology
Nanjing University of Science and Technology
Hong Kong Polytechnic University

Zhejiang Crystal-Optech Co,Ltd
Sichuan Optical Society

Organizer

Committee of optical manufacturing technology,
Chinese Optical Society (COS)

International academic committee

Wenhan Jiang, Academician, Chinese Academy of
Engineering; Institute of Optics and Electronics,
Chinese academy of sciences

Xiangdi Lin, Academician, Chinese Academy of
Engineering

Junhua Pan, Academician, Soochow University

Huilin Jiang, , Academician, Changchun University of
Science and Technology

Tianchu Li, Academician, National Institute of
Metrology,China

Minghui Hong, Professor, National University of
Singapore

Min Gu, , Academician, Academician of Australian
Academy of Science and Australian Academy of
Technological Sciences and Engineering, Royal
Melbourne Institute of Technology

Lin Li, Academician, The Royal Academy of
Engineering, University of Manchester

Yongfeng Lu, Professor, University of Nebraska Lincoln

Songlin Zhuang, Academician, University of Shanghai
for Science and Technology

Organizing committee

Enhui Liu, Director, Institute of Optics and Electronics,
Chinese Academy of Sciences (Chair)

Program committee

Hu Yang, Vice Director Institute of Optics and
Electronics, Chinese Academy of Sciences

Junhong Su, Academician, Chinese Academy of
Engineering

Xiaodi Tan, Beijing Institute of Technology

Xue Feng, Tsinghua University

Ting Xu, Nanjing University

Qiao Xu, China Academy of Engineering Physics

Symposium General Secretary

Duocai Tan, **Penghao Zhou**, **XiaoPing Tang**, ,
Xiaodong Gao, **Qing Wang**, **Bin Fan**, **Yongjian Wan** ,
Leilei Yang

Please submit your abstract at:
<http://www.aomatt.org/>

III. Conferences and Chairs

Conference 1: Large Mirror and Telescopes

Wenhan Jiang, Institute of Optics and Electronics,
Chinese Academy of Sciences

Myung Cho, National Optical Astronomy Observatory
(USA)

Hao Xian, Institute of Optics and Electronics, Chinese
Academy of Sciences (China)

Bin Fan, Institute of Optics and Electronics,
Chinese Academy of Sciences (China)

We invite you to 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 Equipment

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

Wei Gao, Tohoku University (Japan)

Min Xu, Fudan University (China)

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, Flexible Materials and Devices

Xiangang Luo, Institute of Optics and Electronics, Chinese Academy of Sciences (China)

Min Gu, Royal Melbourne Institute of Technology University, Australia

Xiaodi Tan, Beijing Institute of Technology

Minghui Hong, National University of Singapore

Xue Feng, Tsinghua University

Ting Xu, Nanjing University

Yongfeng Lu, University of Nebraska-Lincoln

Zheyu Fang, Peking University

This conference is an international forum on the design, fabrication, and characterization of micro/nano structures, materials and devices for optical and electronic applications. Topics of interest include, but are not limited to, the following:

- Novel micro/nano-fabrication technologies
Advanced laser manufacturing; Nanolithography; 3D printing; Chemical synthesis
- Imaging and sensing
Micro/Nanoscopy; Super-resolution imaging; Biochemical sensing
- Plasmonics and metamaterials
Plasmonic waveguides/logic devices; Metamaterial absorbers/polarizers; Negative refraction; Tunable and active metamaterials
- Metasurfaces and planar optics
Metasurface lenses/filters/polarizers; Tunable and active metasurfaces; Meta-holography
- Nonlinear, quantum and topological photonics
Nonlinear photonics; Nanolaser/spaser; Quantum emission; Photonic topological insulator
- Flexible optoelectronic devices
Wearable optoelectronic devices; Implantable optoelectronic devices; Biodegradable devices; Flexible bionic device; Biomedical applications

Conference 5: Optoelectronics Material and Devices for Sensing and Imaging

Yadong Jiang, University of Electronic Science and Technology of China

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

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

The primary topics for this conference are:

- Properties of optoelectronic materials
- Nano materials for optoelectronic device application
- Properties of sensing materials in detector technology
- Detector design, integration and fusion
- Detector data collection and analysis
- Vision and image processing
- Novel display and processing techniques
- Organic and polymer light emitting device for displays and lighting

- LED and OLED related technologies
- Thin film transistors technology
- Organic and polymer memory device

Conference 6: Workshop

Yang Zhang, Yongjiang Sheng

IV. 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)

V. 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

VI. Hotel Information

Foreign attendee

Jinniu Hotel Chengdu

No.2 Jinqun Road, Chengdu, Sichuan Province

Business Single Room: 80 USD, Including breakfast for 1

Business Twin Room: 80 USD, Including breakfast for 2

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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/>

