

AOMATT 2012

CALL FOR PAPER

The 6th International Symposium on Advanced Optical Manufacturing and Testing Technologies (AOMATT 2012) is to be held in April 26-29, 2012 in the beautiful coastal city of Xiamen, in southern China. Xiamen is close to Taiwan, Hong Kong, and Macau. AOMATT is a well-established international symposium on the design, manufacturing, and testing of optical components and systems. It features high quality plenary presentations by well-known 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 Date

Abstract Due: December 30, 2011

Manuscript Due: March 30, 2012

Symposium Date: April 26-29, 2012

II. Symposium Organization

Sponsored by:

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 (China)
National Natural Science Foundation of China

Symposium Honorary Chair:

Bingkun ZHOU, President of Chinese Optical Society
(COS), Academician, Chinese Academy of Sciences

Symposium General Chair:

Liwei ZHOU, President of Beijing Optical Society
(BOS), Academician, Chinese Academy of
Engineering, Beijing Institute of Technology

Symposium General Co-Chair:

Jianlin CAO, China Ministry of Science and
Technology

Hiroki Kuwano, Tohoku University (Japan)

Yudong ZHANG, Institute of Optics and Electronics,
Chinese Academy of Science

Fritz Klocke, Fraunhofer Institute for Production
Technology IPT (Germany)

Please submit your abstract at:
<http://www.aomatt.org/aomatt2012/english/>

Ying ZHANG, Xiamen University (China)

Xipeng XU, Huaqiao University (China)

Wenhan JIANG, Academician, Chinese Academy of
Engineering, Institute of Optics and Electronics,
Chinese Academy of Sciences

Jianzhong XU, Academician, Chinese Academy of
Sciences, Institute of Engineering Thermal
Physics, Chinese Academy of Sciences

Symposium General Secretary:

Li YANG, Committee of Optical Manufacturing
Technology (COMT), COS (China)

Jinxue Wang, SPIE (USA)

III. Conferences and Chairs

Conference 1: Large Mirror and Telescopes

Wenhan JIANG, Academician, Chinese Academy of
Engineering (China), IOE, CAS

Myung K. Cao, National Optical Astronomy
Observatory (USA)

Fan WU, Institute of Optics and Electronics, CAS
(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

Conference 2: Advanced Optical Manufacturing Technologies

Li YANG, COMT, COS (China)

Eric RUCH, REOSC Optics, SAGEM (France)

David D. Walker, University College London (UK)

Shengyi LI, National University of Defense Technology
(China)

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
- Diamond turning technology
- Optical design and simulation software and tool
- Optoelectronics components and modules integration and manufacturing
- Opto-mechanical components and devices

Conference 3: Optical Test, Measurement Technology, and Equipments

Yudong ZHANG, IOE, CAS (China)

Jose M. Sasian, College of Optical Science, University of Arizona (USA)

Libin XIANG, Opto-electronic Research Academy, Chinese Academy of Science

Sandy To, Hong Kong Polytechnic University (China)

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

- 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: Design, Manufacturing and Testing of Micro and Nano Optical Devices and Systems

Tianchun YE, Institute of Microelectronics, CAS

Masaomi Kameyama, Nikon Corporation (Japan)

Song HU, Institute of Optics and Electronics, CAS

Papers on the following and related topics should be submitted to this conference.

- Micro and nano optical system design, manufacturing and testing
- Nano metrology technology and tools
- Nanoscale imaging and sensing technologies
- Nanofluidics device design, fabrication and testing
- Fabrication of MEMS/MOEMS devices
- Testing and Characterization of MEMS/MOEMS
- MEMS/MOEMS reliability
- Packaging of MEMS/MOEMS devices
- Next generation lithography
- EUVL research and development
- Advances in thin film coating for MEMS
- Microfluidics, BioMEMS, and Medical Microsystems

Conference 5: Opto-Electronics 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 the conference are as following:

- 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 devices

Conference 6: Smart Structure and Materials for Manufacturing and Testing

Xiangang LUO, Institute of Optics and Electronics, CAS

Xiaoyi Bao, University of Ottawa (Canada)

Papers on the following and related topics are welcome for this conference.

- Smart structures and materials
- Structural health monitoring
- Optical fiber sensors and applications
- Design, fabrication, and application of metamaterials
- Plasmonic devices and sensors
- Directive antenna
- Design, fabrication, and application of nanostructures
- Passive and active vibration isolation systems
- Shape memory alloys
- SMA- and piezo-based materials and systems
- Aircraft, MAV/UAV and morphing systems

Conference 7: Opto-Electronic Materials, Devices, and System Technology for Solar Energy

Jianzhong XU, Institute of Engineering Thermal Physics, CAS

Zhifeng WANG, Institute of Electronic Engineering, CAS

Primary topics for this conference are:

- Photovoltaic cells for power generation and energy conversion
- Optical devices for photovoltaic technique
- Thin films solar cell, dye-sensitized solar cells, bulk heterojunction solar cells
- Opto-electronic technology in photovoltaic power

- Optical technology of parabolic trough technology
- Opto-electronic technology in solar towers
- Fresnel technology for solar power
- Dish-Stirling system for solar thermal power technology
- Devices and systems design, manufacturing, and testing technology for Concentrated thermal power technology

Conference 8: Precision Optics and Engineering for Imaging, Information Storage, Display and Transmission

Xiangdi LIN, Academician, Chinese Academy of Engineering

Yoshiharu Namba, Chubu University (Japan)

Tingwen XING, Institute of Optics and Electronics, CAS

Papers on the following and related topics are solicited for this conference.

- Freeform optics design theory and method
- Freeform optics application in optical imaging and lighting system
- Freeform optics metrology and testing
- Holographic and speckle pattern technology for opto-electro testing and measurement
- Modern interferometer technology
- Diffractive optics element design and fabrication
- Reflection and diffraction hybrid optical element and system technology
- Space optical detection and imaging technology and systems
- Space laser communication

V. Abstract Submission Information

Please submit your abstracts online at

<http://www.aomatt.org/aomatt2012/english/>

Your abstract must include all of the following information:

1. PAPER TITLE

2. AUTHORS (principal author first)

For each author:

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

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

7. Manuscript must use the Format Template downloaded from www.aomatt.org

For updated symposium information, registration, hotel, etc., please visit symposium web page at <http://www.aomatt.org/aomatt2012/english/>