

AOMATT 2010

CALL FOR PAPER

The 5th International Symposium on Advanced Optical Manufacturing and Testing Technologies (AOMATT 2010) is to be held in April 26-29, 2010 in the beautiful city of Dalian, China.

AOMATT2010 will feature six conference topics, an increase of two conferences from earlier symposium. Another improvement will be the use of SPIE online manuscript submission. We encourage you to submit your abstracts early.

I. Important Dates

Symposium Date: April 26-29, 2010

Abstract Due: Dec. 15, 2009

Manuscript Due: March 15, 2010

II. Symposium Organization

Sponsored by:

COS- The Chinese Optical Society

IOE- Institute of Optics and Electronics, Chinese Academy of Sciences

Technical Co-sponsor :

SPIE-The International Society of Optical Engineering

Cooperating Organization:

German Society of Applied Optics

Optics and Photonics Society of Singapore

Optical Society of Sichuan Province

State Key Laboratory of Microfabrication

Dalian Institute of Chemical Physics, CAS

Dalian University of Technology

Changchun Institute of Fine Optical Machining and Physics, CAS

Changchun University of Science and Technology

National University of Defense Technology

Harbin Institute of Technology

Beijing Institute of Technology

University of Electronic Science and Technology of China

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Supported by:

Ministry of Science and Technology of China

Chinese Academy of Sciences (China)

National Natural Science Foundation of China

Honorary Chair:

WANG Daheng, Academician, Chinese Academy of Sciences and Chinese Academy of Engineering (China)

Symposium General Chair:

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

Symposium General Co-Chair:

James C. Wyant, Dean of College of Optical Sciences, Univ. of Arizona (USA); 2010 OSA President

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

Michael Pfeffer, Chairman of German Society of Applied Optics

ZHANG Yudong, Director of the Institute of Optics and Electronics (IOE), Chinese Academy of Sciences (China)

LI Peigen, Academician, Chinese Academy Of Engineering, Dean of Huazhong University of Science and Technology (China)

JIN Guofang, Academician, Chinese Academy Of Engineering, TsingHua University (China)

ZHANG Chunhao, Academician, Chinese Academy of Science, Dalian Institute of Chemical Physics, CAS (China)

Please submit your abstract online at:

<http://www.ioe.ac.cn/aomatt2010/english/>

Submission Deadline: Dec. 15, 2009

International Scientific Committee:

JIANG Wenhan, Academician, Chinese Academy Of Engineering, IOE, CAS (Chair)

SANG Fengting, Academician, Chinese Academy of Science, Dalian Institute of Chemical Physics, CAS

WEN Lishi, Academician, Chinese Academy of Engineering, Dalian University of Technology

MU Guoguang, Academician, Chinese Academy of Science, Nankai University

ZHAO Yijun, Academician, Chinese Academy of Engineering, National University of Defense Technology

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PEN Junhua, Academician, Chinese Academy of Engineering, Suzhou University

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Jose M. Sasian, University Arizona (USA)

Fritz Klocke, Fraunhofer Institute for Production Technology IPT (Germany)
James R. Torley, University of Colorado (USA)
Yoshiharu Namba, Chubu University (Japan)
Jim Burge, University of Arizona (USA)
David D. Walker, University College London (U.K)

International Organizing Committee:

ZHANG Yudong, Chair, Director of Institute of Optics and Electronics, CAS (China)
CAO Jinghua, Co-Chair, Deputy Director General of Bureau of International Cooperation, Chinese Academy of Science
XIANGLI Bin, Co-Chair, Director of Opto-electronic Research Academy of Chinese Academy of Science
Anand Asundi, Co-Chair, Chairman of Optics and Photonics Society of Singapore
YU Huadong, Co-Chair, Dean of Changchun University of Science and Technology (China)
NI Guoqiang, Co-Chair, Secretary General of Chinese Optical Society (COS)

John M. Schoen, Center for Optical Manufacturing, University of Rochester (USA)
YANG Li, Committee of Optical Manufacturing Technology (COMT), COS (China)
Jinxue Wang, SPIE (USA)
Roland GEYL, REOSC Optics, SAGEM (France)
WU Fan, Institute of Optics and Electronics, CAS (China)
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ZHENG Yao, Qingdao Haitai Co. Ltd (China)
Tadashi Hatano, Tohoku University (Japan)
LI Xiaoping, Shanghai Micro Electronic Equipment Co Ltd (China)
Liang Ying Chun, School of Mechanical and Electronic Engineering, Harbin Institute of Technology (China)
Robert Smythe, ZYGO Corporation (USA)
XIANG Yinhui, Institute of Optics and Electronics, CAS (China)

Technical Program Committee:

LIN Xiangdi, Chair, Academician, Chinese Academy of Engineering (China)
YANG Hu, Vice Director of Institute of Optics and Electronics, CAS (China)
QIN Yuwen, Co-Chair, Director of Dept. of Information Science of Natural Science Foundation of China
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Myung K. Cho, Co-Chair, NOAO (USA)

Eric RUCH, REOSC Optics, SAGEM (France)
Bernard Delabre, ESO (Germany)

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LI Wei, Chinese Academy of Engineering Physics
Paul Kloceck, ELCAN Optical Technologies (USA)
YU Jingchi, Suzhou University (China)
Frank Holler, Carl Zeiss AG (Germany)
ZHANG Xuejun, Changchun Institute of Fine Mechanics and Physics, CAS (China)
Mary G. Turner, InfoTek Information Systems (USA)
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Ralf Glaebe, University Bremen (Germany)
Masahide Katsuki, Toshiba Machine Co. Ltd (Japan)
Richard Freeman, ZEEKO Ltd (UK)
Thomas Franz, NTG Neue Technologien GmbH & Co. KG (Germany)
Matthias Pfaff, OptoTech Optikmaschinen GmbH
Michael Sander, Satisloh GmbH (Germany)
Mike DeMarco, QED Technologies (USA)
Stephen J. Martinek, 4D Technology (USA)
Gaven F. Chapmam, Moore Precision Tool (USA)
Thomas Danger, Schneider GmbH (Germany)
Mike Conroy, Taylor Hobson Limited (UK)

Secretary General of the Symposium:

YANG Li, Committee of Optical Manufacturing Technology, COS (China)
Jinxue Wang, SPIE (USA)

III. Conferences

Conference 1: Large Mirror and Telescopes

Conference Chairs:

JIANG Wenhan, Academician, Chinese Academy of Engineering (China)
Myung K. Cho, National Optical Astronomy Observatory (USA)
WU Fan, Institute of Optics and Electronics, CAS (China)

Committee:

Jim Burge, University of Arizona (USA)
Bernard Delabre, ESO (Germany)
Eric RUCH, REOSC Optics, SAGEM (France)
Young-Soo KIM, Korea Astronomy & Space Science Institute (Korea)
Matt Johns, Carnegie Observatories (USA)
YU Jingchi, Suzhou University (China)
Sung-Kie Youn, Korea Advanced Institute of Science and Technology (KAIST) (Korea)
GAO Bilie, Nanjing Institute of Astronomical Optical Technology, 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

Conference Chairs:

YANG Li, COMT, COS (China)

Yoshiharu Namba, Chubu University (Japan)

David D. Walker, University College Landon (UK)

LI Shengyi, National University of Defense Technology (China)

Committee:

FU Xiuhua, Changchun University of Science and Technology (China)

Masahide Katsuki, Toshiba Machine Co. Ltd (Japan)

CHENG Haobo, Beijing Institute of Technology (China)

Karen Scott, The Aerospace Corp (USA)

Richard Freeman, ZEEKO Ltd (UK)

TIAN Ailing, Xian Polytechnic University (China)

Paul Shore, Cranfield University (UK)

Wenda Jiang, LPI Precision Optics Ltd. (Hong Kong)

Richard Zunke, Fraunhofer Institute of Production Technology (Germany)

HUI Changshun, Tianjin Jinhang Institute of Technology Physics (China)

LI Cijuan, The Eleventh Institute of China Electronics Technology Group Co.

Gaven F. Chapmam, Moore Precision Tool (USA)

Ma Zheng, Xian Institute of Optics and Fine Mechanics, CAS (China)

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

- Advanced optical manufacturing technologies
- Aspherical optics design, manufacturing and testing
- ICF optical technology and engineering
- 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, and Measurement Technology, and Equipments

Conference Chairs:

ZHANG Yudong, Director of Institute of Optics and Electronics, CAS (China)

Jose M. Sasian, Prof. of University of Arizona (USA)

XIANG Libin, Director of Opto-electronic Research

Academy of Chinese Academy of Science (China)

Sandy To, Hong Kong Polytechnic University (China)

Committee:

WU Shibing, Institute of Optics and Electronics, CAS (China)

James R. Torley, University of Colorado (USA)

XU Qiao, Chengdu Fine Optical Engineering Research Center (China)

Tadashi Hatano, Tohoku University (Japan)

Hexin Wang, Optical Technology Carl Zeiss AG (Germany)

Mike Conroy, Taylor Hobson Limited (UK)

ZHANG Rongzhu, Sichuan University (China)

Peter C. Chen, The Catholic University (USA)

Mary G. Turner, InfoTek Information Systems (USA)

ZHENG Ligong, Changchun Institute of Optics, Fine Mechanics and Physics, CAS (China)

Malacara-Doblado Daniel, Centro de Investigaciones en Optica, A. C. Mexico (Mexico)

YANG Yongying, Zhejiang University (China)

Sondes Trabelsi-Bauer, Karlsruhe Research Center (Germany)

NI Qian, Xian Technological University (China)

ARAFA. H. ALY, Chonnam National University (Korea)

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

- Modern interferometric technologies
- Aspherical optical surface testing
- Super-precision optical surface testing
- Measurement of super smooth surface
- Measurement of optical thin film
- Test in infrared components and systems
- 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

Conference Chairs:

YE Tianchun, Director of Institute of Microelectronics, Chinese Academy of Science (China)

Sen Han, Veeco, Inc. (USA)

Masaomi Kameyama, Nikon Corporation (Japan)

HU Song, Institute of Optics and Electronics (IOE), CAS (China)

Committee:

LI Yanqiu, Beijing Institute of Technology (China)

Li-Anne Liew, National Institute of Science and Technology (USA)

WANG Xiangchao, Shanghai Institute of Optics and Fine Mechanic, CAS (China)
LI Zhihong, MEMS Center, Beijing University (China)
Yao Li, Centre for Composite Materials, Harbin institute of Technology (China)
Ming Liu, Institute of Microelectronics, CAS (China)
Tadashi Hatano, Tohoku University (Japan)
LI Xiaoping, Shanghai Micro Electronic Equipment Co Ltd China)
Zhichun Ma, Ford Motor Company (USA)
Sung Moon, Korean Institute of Science and Technology (Korea)
ZHAO Qingliang, Harbin institute of Technology (China)

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

- Micro-nano optical system design
- Micro-nano Optical 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 Detector, Imager, Display and Energy Conversion Technology

Conference Chairs:

JIANG Yadong, 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)
YU Junsheng, State Key Laboratory of Electronic Thin Films and Integrated devices (China)

Committee:

GONG Qihuang, Director of State Key Laboratory for Mesoscopic Physics, Department of Physics, Peking University (China)
Kwok, K. W., Director of Display Technology Research Center, The Hong Kong Polytechnic University (China)
MA Dongge, State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, CAS (China)
PEI Qibing, Soft Materials Research Laboratory, Department of Materials Science and Engineering, UCLA (USA)
ZHAO Jianlin, Director of Optical Information Science and Technology, Northwestern Polytechnical

University (China)
CHENG Xuemian, Tsinghua University (China)
TAO Yuesheng, Northeast University (China)
LI Weiming, Chengdu Guangming Optoelectronic Co. Lit. (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 testing
- 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
- Photovoltaic cells for power generation and energy conversion
- Optical Device for Photovoltaic Technique
- Thin films solar cell, dye-sensitized solar cells, bulk heterojunction solar cells
- Thin film transistors technology
- Organic and polymer memory devices

Conference 6: Smart Structure and Materials in Manufacturing and Testing

Conference Chairs:

LUO Xiangang, Institute of Optics and Electronics, CAS (China)
George Von Freymann, University of Karlsruhe (Germany)

Committee:

Minghui Hong, Singapore National University (Singapore)
L. Jay Guo, University of Michigan (USA)
Teruya Ishihara, Tohoku University (Japan)
Steffen Holtwick, Institute of Nanotechnology (Germany)
ZHANG Fujia, Lanzhou University (China)
Z. James Zhou, School and Computer Engineering, Georgia Institute of Technology (USA)
Hai Ming, University of Science and Technology (China)
ZHAN Qiwen, University of Dayton (USA)
FANG Fengzhou, Tianjing University (China)
ZI Jian, Fudan University (China)
KONG Yongfa, Nankai University (China)

The primary topics for this conference are:

- Smart structures and materials
- Structural health monitoring
- Design, fabrication, and application of metamaterials
- Plasmonic devices and sensors, optical fiber sensors, sensor networks
- Plasmonic lithography
- Directive antenna
- Design, fabrication, and application of nanostructures

- Energy harvesting and scavenging
- Biological-inspired systems
- Passive and active vibration isolation systems
- Shape memory alloys
- SMA- and piezo-based materials and systems
- Micro and nano integrated systems
- Aircraft, MAV/UAV and morphing systems
- Modeling, simulation, optimization, signal processing, control, and design of integrated systems
- Novel materials and devices
- Materials for flexible RFID systems
- RFID and applications

IV. Abstract Submission

Please submit your abstracts online at <http://www.ioe.ac.cn/aomatt2010/english>

Your abstract submission 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

V. Hotel Information

Please check

<http://www.ioe.ac.cn/aomatt2010/english> for hotel information and update.

VI. Registration Information

Please check

<http://www.ioe.ac.cn/aomatt2010/english> for registration information and forms.

VII. Visa Information

For visa application letter and information, please send e-mail to zhailin@hotmail.com. Please consult your travel agent or oversea Chinese Consulate web site for visa requirements. If you plan to tour before or after the conference, you may apply for a tourist visa

that does not need visa invitation letter.

Visa Information Contact:

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For updated symposium information, registration, hotel, etc., please visit symposium web page at

www.ioe.ac.cn/aomatt2010/english/

