PROCEEDINGS OF SPIE

3rd International Symposium on Advanced Optical Manufacturing and Testing Technologies

Large Mirrors and Telescopes

Yudong Zhang
Wenhan Jiang
Myung K. Cho
Editors

8–12 July 2007
Chengdu, China

Sponsored by
COS—The Chinese Optical Society (China) • IOE—The Institute of Optics and Electronics, CAS (China)

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Ministry of Science and Technology of China (China) • Chinese Academy of Sciences (China)
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Published by
SPIE

Volume 6721

Proceedings of SPIE, 0277-786X, v. 6721

The papers included in this volume were part of the technical conference cited on the cover and title page. Papers were selected and subject to review by the editors and conference program committee. Some conference presentations may not be available for publication. The papers published in these proceedings reflect the work and thoughts of the authors and are published herein as submitted. The publisher is not responsible for the validity of the information or for any outcomes resulting from reliance thereon.

Please use the following format to cite material from this book:
Author(s), "Title of Paper," in *3rd International Symposium on Advanced Optical Manufacturing and Testing Technologies: Large Mirrors and Telescopes*, edited by Yudong Zhang, Wenhan Jiang, Myung K. Cho, Proceedings of SPIE Vol. 6721 (SPIE, Bellingham, WA, 2007) Article CID Number.

ISSN 0277-786X
ISBN 9780819468789

Published by
SPIE
P.O. Box 10, Bellingham, Washington 98227-0010 USA
Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445
SPIE.org

Printed in the United States of America.

Publication of record for individual papers is online in the SPIE Digital Library.

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Paper Numbering: Proceedings of SPIE follow an e-First publication model, with papers published first online and then in print and on CD-ROM. Papers are published as they are submitted and meet publication criteria. A unique, consistent, permanent citation identifier (CID) number is assigned to each article at the time of the first publication. Utilization of CIDs allows articles to be fully citable as soon they are published online, and connects the same identifier to all online, print, and electronic versions of the publication. SPIE uses a six-digit CID article numbering system in which:

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Introduction

Optical manufacturing technology has seen tremendous progress especially during the last 10 years both in China and abroad. It plays remarkable supporting and enabling roles in many industries and contributes to technology and society development. Optical manufacturing technology has become a very important interdisciplinary field of manufacturing science and optical science. It is closely associated with developments in information technologies, bioscience, materials, nanotechnologies, etc. At the same time, optical manufacturing has developed into a new global business involving optics, optoelectronics, and photonics in the world economy system. Today, as China becomes an integral part of the global economy, it is hard to find an area of optical manufacturing or optical market that doesn't involve the close cooperation between China and the rest of the world.

To satisfy the needs for timely exchanges of optical manufacturing technologies and market information, the first international symposium on Advanced Optical Manufacturing and Testing Technology (AOMATT) was sponsored and organized by the Chinese Optics Society (COS), The Institute of Optics and Electronics (IOE) of Chinese Academy of Science (CAS), and SPIE in 2000. Prof. WANG Daheng, a leading authority of Chinese optics and optical engineering and an academician of both the Chinese Academy of Science and Chinese Academy of Engineering, chaired the first successful AOMATT symposium in Chengdu, China. The first AOMATT in 2000 resulted in 106 papers published in the Proceedings of SPIE, Vol. 4231. A much larger second AOMATT meeting was held in Xian, China, in 2005. It resulted in 359 papers published in the Proceedings of SPIE, Vols. 6148–6150. The third AOMATT symposium came back to Chengdu, China, in July 2007. By all accounts, it was even a bigger success. More than 700 delegates from all over the world attended the opening ceremony and plenary session on the first day of the symposium. A total of 483 oral and poster papers were presented at the symposium. They are published in the Proceedings of SPIE, Vols. 6721–6724.

Professor ZHOU Bingkun, AOMATT 2007 Symposium General Chair, President of the Chinese Optical Society, and Academician of Chinese Academy of Science, chaired the opening ceremony and the plenary presentation, and gave its congratulations to the symposium in his opening speech. Professor CAO Jinghua, Vice Director of the Bureau of International Co-operation of Chinese Academy of Science, attended the opening ceremony and gave a warm opening speech. Dr. Philip Stahl from NASA Marshall Space Flight Center, a member of SPIE's Board of Directors and Vice President of ICO, represented SPIE at the symposium and delivered the first symposium plenary presentation entitled "James Webb Space Telescope: The First Light Machine." It was warmly received by the symposium delegates. Other symposium plenary speakers include Dr. Bernard Delabre from

ESO of Germany, Dr. Eric Ruch from REOSC of France, Dr. Jim Burge from the University of Arizona of USA, Dr. David Walker from Univ. College London of UK, Dr. Yoshiharu Namba from Chubu University of Japan, Dr. Tadashi Hatano from Tohoku University of Japan, Dr. Masaomi Kameyama from Nikon Corporation of Japan, Dr. Xiangang Luo from IOE of China, and Dr. Sen Han from Veeco Corporation, USA. The plenary presentations have given symposium delegates the opportunity to learn about the latest developments in large mirror and telescope technology, advanced optical manufacturing technology, optical testing, and nanotechnologies. The symposium has provided an excellent platform for all delegates to network with each other, review progresses in their fields, discuss future technology and market trends, explore collaboration and business opportunities, etc.

We are delighted that each new AOMATT symposium is more successful than the last. AOMATT has established itself as a must-attend leading optical design and manufacturing symposium in China. We are confident the meeting will get even better in the future and become a well-known international symposium. We would like to express our sincere appreciation to all organizations and individuals who have contributed to the success of AOMATT. We want to thank all authors and symposium delegates for attending the symposium and sharing their research and development with their colleagues around the world. The next AOMATT symposium will be held in China in 2009. We are looking forward to seeing you all at an even more successful AOMATT.

Li Yang
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