

## PREFACE

The 6<sup>th</sup> International Conference on Photonics and Imaging in Biology and Medicine (PIBM 2007) was held during November 4-6, 2007 at Wuhan National Laboratory for Optoelectronics (WNLO) in the campus of the Huazhong University of Science and Technology (HUST), Wuhan, P.R. China. The present volume contains the texts of a selection from the invited talks delivered at the conference and the poster presentations.

PIBM is the largest international biomedical photonics conference in Asia. It was initially held at HUST biyearly since 1999. After three times held in Wuhan (1999, 2001, and 2003), it was hosted once in Tianjin (2005), and then, back to Wuhan yearly since 2006. PIBM is designed to bring together scientists, engineers and clinical researchers from a variety of disciplines engaged in applying optical science, photonics and imaging technologies to problems in biology and medicine. The scope of this conference ranges from basic research to instrumentation engineering, to biological and clinical studies. It is recognized as one of the largest and most comprehensive international conferences in China, and represents the highest level of the worldwide research in this field. In the past eight years, 5 volumes of proceedings with 510 papers were published by SPIE (International Society for Optical Engineering). All the published papers were indexed by Ei Compendex. More and more young researchers presented and exchanged their innovative ideas on this friendly and professional platform, which made PIBM an unforgettable annual meeting in Wuhan.

This year, PIBM attracted distinguished scholars in biomedical photonics and imaging field from all over the world, such as United States, United Kingdom, Russia, Canada, Israel, France, Japan, Sudan, and China. The conference gave attendees the opportunity to interact one-on-one with presenters. Multiple poster sessions allowed lively discussions on the latest research. During the three days, PIBM focused on 5 topics including 24 invited lectures and 89 poster presentations. This volume includes a selection of 6 invited papers, and 69 excellent subscriptions, some of which are recommended to a new journal, *Journal of Innovation in Optical Health Science (JIOHS)*.

The major topics covered at the conference and presented in this volume include:

- ✧ Tissue Optics and Diffuse Optical Imaging
- ✧ Optical Molecular Imaging
- ✧ Multiphoton Microscopy in Biomedical Sciences
- ✧ Photonic Therapeutics, Diagnostics and Instrumentations
- ✧ Multimodal and Hybrid Biomedical Imaging

The Secretariat and Local Organizing Committee deserve great appreciation in creating a smoothly run and productive conference with comprehensive instructive lectures and innovation work presented by posters. The faculties and students from Britton Chance Center for Biomedical Photonics were dedicated in the reception and service work during the conference days. It is a pleasure to thank all of them for their hard work. We also gratefully thank the financial support by National Natural Science Foundation of China (30710303094, 90508003), 111 Project (B07038), 863 Project (2006AA02Z343, 2006AA020801), Program for Changjiang Scholars and Innovative Research Team in University (IRT0623), and the organizing and coordinating help from WNLO and HUST.

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Wuhan, P. R. China  
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Qingming Luo  
Lihong V. Wang  
Valery V. Tuchin  
*Conference Chairs*