

REPORT SUBMITTED BY  
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Yangtze River 2009 International Conference on Medical Imaging  
Physics (ICMIP 2009) and The 5<sup>th</sup> National Annual Meeting of  
Medical Imaging Physics  
At  
Nanjing University of Aeronautics and Astronautics, Nanjing, China  
October 23<sup>th</sup> – 25<sup>th</sup>, 2009

A three-day Yangtze River 2009 International Conference on Medical Imaging Physics with the theme “High-Definition Images and Image-Guided Localization” and the 5<sup>th</sup> National Annual Meeting of Medical Imaging Physics was jointly held at the Science Building of the Nanjing University of Aeronautics and Astronautics, Nanjing, China on October 23<sup>th</sup> - 25<sup>th</sup>, 2009 (<http://icmip2009.nuaa.edu.cn>). The intent of the conference is (a) to facilitate scientific exchange, (b) to promote medical physics research, applications, and education, and (c) to provide a platform for medical physicists and scientists in related fields worldwide to foster communications, collaborations, and friendship. In accordance to Shanglian Bao, PhD (Conference Chair), this annual meeting is the first to be held outside the city of Beijing, China. This meeting is sponsored by the North American Chinese Medical Physicists Association (NACMPA), Chinese Society of Medical Physics (CSMP), Life Electronics Society of Chinese Institute of Electronics (LES, CIE), and Overseas Chinese Society for Magnetic Resonance in Medicine (OCSMRM).

The opening ceremony and welcome speeches were given by the president of the Nanjing University of Aeronautics & Astronautics, director of college of automatic engineering, NAUAA, board chairperson of Jiangsu Province Institute of Biomedical Engineering, chairman of the Institute of Scientific and Technology of Jiangsu Province, and lastly the conference chairs, S. Bao, PhD and C. Shaw, PhD.

Keynote speeches were presented by well-known international experts in the two plenary sessions that follow the opening ceremony. Chris Shaw, PhD who is the Director of Digital Imaging at UT MD Anderson Cancer Center, Houston, TX presented an update on the current state and future of digital imaging. This was followed by Stuart Swerdloff, PhD of Elekta who presented the status on the integration of healthcare in radiation oncology addressing standards for seamless interfacing of radiation therapy equipment from different manufacturers. Dr. Samuel Achilefu, PhD, Professor and Chief of the Optical Radiology Laboratory, Washington University, St Louis, MO presented the state and advances in optical molecular imaging. The advances of integrating imaging modalities into radiation

therapy were presented by Cheng Saw, PhD Director of Medical Physics, Penn State Hershey Cancer Institute, Hershey, PA. The integration of imaging modalities has transformed the practice of radiation oncology. The final presentation of the plenary session was given by Professor Bao, Director of Research Center for Tumor Diagnosis and Therapeutic Physics, Peking University. He presented the current state and future of medical imaging physics in China. His primary concern has been the shortage of manpower in medical imaging physics and radiation therapy physics in his country.

The conference and meeting continued with parallel technical sessions in the afternoon and subsequent days. The technical sessions were identified as Medical Physics & Medical Imaging and Bio-photonics. Over 120 abstracts were presented. The topics covered a wide range of bio-engineering subjects including radio-diagnostic technologies such as radio-imaging and imaged-guided radiotherapy, imaged-guided therapy, computer image processing, biomedical photonics, nano-technology, bioinformatics, and information management systems. The international conference and annual meeting ended with the award ceremony. Approximated 200 people mostly within China attended the conference and meeting.

Nanjing is an ancient capital city that served six dynasties. The city is located about 300 km northwest of Shanghai. It takes about 2 hours to reach Nanjing from Shanghai by train. The Yangtze River divides the city of Nanjing into two sections, the main city on the east bank and Pukou on the west bank. The city is served by the Nanjing Lukou International Airport and a system of modern transportation that has been built for the 2010 China Shanghai World Expo with theme forums to be held in cities in the Yangtze River area that include Nanjing.



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