## Development of M edical Imaging Phy sics in C hina

ShanglianBa o

TheBe ijingCit yKeyLabofMe dicalPhy sicsan dEngineeri ng, PekingUniversit y, Beijing1 00871,P.R.China. bao@pku.edu.cn

After a wellattend edin ternational meetingin MedicalP hysics in 1981 in Beijing, and the for mation of a medical physics community, attention was focused on teaching the students in medical physics. The program of medical imaging physics for masterandPh Dd egreeinChi na wass tartedin 1994 inPekingUniversity .T heI nstitute ofHea vy Ion Physics in theUniver sity redirected its research interest i nthe physics of nu clear medicine, magnetic resonance imaging, X-ray imaging as well as the technologieso nmedical imagingprocessing and medicalim aginginformat ion integration for tumor earlierdia gnosis. Rec ently, research and teaching include topics related to the treatment planning system of radiotherapy and the imaging guided interventional system. Since 2005, ot heri nstitutions, such Tsinghua University, WuHan University, a lso started the programs for master degree studen ts. The Society of Medical Physics under the China Physics College was also founded in 2007. The new organization is w orking closely with the Chinese S ociety of Medical Physics under the Chinese Society of Bi omedical Engineering. The Regulation No 46 issued by the Health Mi nister of China in June, 2005 has de fined the me dical physicist positions in radiology, nucle armed icine, and radiotherapy departments in Chi nese Hospit als. But, t here are note nough qualified medicalp hysicists wo rking in hospit als yet. There is no established meth od to assist the hospitals to fi nd out if a physicist is qualified to p erform the medica l physics responsibilities. The image guided radiotherapy procedures and digital i maging and multi-slice CT technology demand closer cooperation bet ween the medical imaging physicists, radiologists and radiation oncologists. The efforts on in ternational exchange program for radiotherapy medical phy sicists produc ed many qual ified medical physicists over many years in the Cancer Institute Hospital of the Chines e Ac ademy of Medical Science under the direction of Prof Yim in Hu. Also in Beijing, medicalimaging physicist raining was started in 1996, and again in 2001. In 2007, the AAPM -IOMPs hortcoursein Diagnostic Imaging M edical Physics, like previous training programs, was held in Peking University. Atth istime, t he need to create a formal Board Certification mechanism formedic alimaging ph ysicists in China exists.