中国辐射防护研究院

Statement of Willingness to Serve if Elected

I have been nominated by China Society of Radiation Protection as a candidate for the 2020-2024 term IRPA Executive Council to serve as Executive Officer or Publications Director and hereby faithfully attest and confirm my willingness to serve if elected. I will be, as requested, be prepared to commit the necessary time and energy to deliver on my responsibilities and fulfill the obligations to the best of my abilities.

Printed name: Liye LIU Signature: $\frac{1}{2}\sqrt{\frac{1}{2}}$ Date: $\frac{2}{2}\sqrt{2}\sqrt{-1-14}$ Contact information: liuliye@cirp.org.cn

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Statement of Motivation

IRPA Executive Office,

The role IRPA plays in the walk of radiation protection sparked my enthusiasm to apply and become a member of 2020-2024 term IRPA Executive Council and serve as Executive Officer or Publications Director. As stated on its homepage, IRPA is dedicated to promoting the worldwide enhancement of professional competence, radiation protection culture, and practice by providing benchmarks of good practice, and encouraging the application of the highest standards of professional conduct, skills, and knowledge for the benefit of individuals and society. Above missions are closely related to the role of China Society for Radiation Protection (CSRP), in which I currently serve as the leader of Preparatory Group in the Youth Committee, act as Vice Chairman of the Education and Science Popularizing Branch and also a member of the Executive Board of the Nuclear Installation Branch.

Thanks to my studying and working experience in Tsinghua University and China Institute for Radiation Protection (CIRP), I obtained wide research experience in radiation protection, covering human phantoms and their application, *in-vivo* monitoring and internal dose assessment, external dose monitoring and assessment, Monte Carlo simulation and numerical calibration, radiation detection and measurement as well as in-situ radiological characterization, which lead to a fair amount of publications on both journals and conference proceedings.

After my position was changed to the Director of R&D Management and Planning Department in 2016 and further elected as Vice President of CIRP in 2018, I was, without discounting scientific research, more involved in operation management of CIRP, which equipped me with not only professional knowledge but also leadership play a role in international organizations so as to share our research achievements and draw on the experiences of other countries. At present I am a member of the Expert Group for Occupational Exposure (EGOE) in UNSCEAR, work as consultant to ICRU Report Committee 29, serve as Chinese representative in IAEA RASSC, and also act as co-founder and member of the Executive Committee of Asian Radiation Dosimetry Group (ARADOS), participating the establishment and review of various standards and scientific reports in the field of radiation protection. I'm working to make our voice heard.

Through applying to join IRPA Executive Council, I'm committed to contribute to the general management of the affairs of the association and well manage IRPA programmes to the best of my ability. Beyond that, I also hope to help tighten the coordination between IRPA and CSRP, which has wide range of sources and will certainly promote the fulfillment of IRPA's responsibilities.

Thank you for considering my application.

Yours Sincerely,

Liye Liu

CURRICULUM VITAE

Personal information

First name: Liye Family name: Liu Date of birth: 21 Nov. 1978 Current position: Professor / VP China Institute for Radiation Protection E-mail: liuliye@cirp.org.cn Tel: 86-351-2203139; Fax: 86-351-2202137 Address: XueFu street 102, Taiyuan, Shanxi, 030006, China



Research Interests and experiences

The main research interests are focusing in radiation protection, covering the following research topics: radiation dosimetry, human phantom, radiation detection and measurement, ALARA, radiological characterization.

- Human phantoms and their application. (1) Development of Chinese human voxel phantoms and their applications in radiation dose assessment. (2) Development of Chinese human physical phantoms for the efficiency calibration of *in-vivo* monitoring system.
- In-vivo monitoring and internal dose assessment. The research activities cover gamma spectrum analysis, internal dose assessment and development of *in-vivo* monitoring equipment. Meanwhile, he also organized the first intercomparison of WBC-monitoring and dose assessment among China's NPPs in 2014.
- External dose monitoring and dose assessment. He is now developing an eye-lens dosimeter, while, he also developed calculation technique for accidental dose reconstruction and three-dimensional (3D) dose simulation method for ALARA purpose.
- Monte Carlo simulation and numerical calibration: Development of the numerical calibration technique for HPGe/CZT/Nal/LaBr detectors based on Monte Carlo method.
- Radiation detection and measurement: Development of new fiber-based radiation detection technique for gamma & neutron, and GSPC for low energy X/γ rays measurement, etc.
- In-situ radiological characterization. Development of in-situ gamma spectrometry measurement systems based on HPGe and CZT detectors, and he has performed the first large-scale measurement campaign for activated-corrosion source term characterization and dose assessment for the operating NPPs in China.

Membership of professional bodies

- **With a set of the set**
- ♣ Consultant, ICRU Report Committee 29 (RC29 on dose reconstruction).
- ↓ Technical Expert supporting for China representative for the IAEA's 40th RASSC meeting.
- Member of Monitoring and Steering Committee (MSC), International Symposium on Radiation Safety and Detection Technology (ISORD).
- Co-founder & Member of the Executive Committee of Asian Radiation Dosimetry Group (ARADOS)
- Member of China Standardization Technical Sub-committee on Nuclear Instruments and Detection Technology (SAC/TC30/SC1).
- Member of Executive board of nuclear installation branch of China Society of Radiation Protection (CSRP).
- **4** Member of Editorial board of the Journal of Radiation Protection (China).
- 4 Member of Health Physics Society.

Peer reviewer for Journals

- Radiation Protection (in Chinese)
- Space Medicine & Medical Engineering (in Chinese)
- China Science Paper (in Chinese)
- **4** Radiation Protection Bulletin (in Chinese)

Education

2007.9 ~ 2010.7 **Tsinghua University**

Ph.D. in Nuclear Science and Technology (Radiation Protection)

2000.9 ~ 2002.7 Tsinghua University

M.S. in Nuclear Technology and its Application

1996.9 ~ 2000.7 Tsinghua University

B.S. in Nuclear Engineering and Technology

Career Development

2018.5 ~ now Researcher(Professor) & Vice President

China Institute for Radiation Protection (CIRP)

Chairman of Young Professional Committee, China Society of Radiation Protection (CSRP)

2016.11 ~ 2018.5 Researcher(Professor) & Director

Division of R&D and Planning, China Institute for Radiation Protection (CIRP)

2015.1 ~ 2016.10 Researcher(Professor) & Deputy-director

Department of Health Physics, China Institute for Radiation Protection (CIRP)

2010.8 ~ 2014.12 Associate researcher & Deputy-director Department of Health Physics, CIRP

2005.1 ~ 2007.8 Assistant researcher & Deputy-director

Department of Health Physics and Nuclear Safety, CIRP. Director of Occupational Exposure Data Management Center of CNNC.

2004.1 ~ 2004.12 Assistant researcher & Assistant-director

Dosimetry research Lab. (group leader)

Department of Health Physics and Nuclear Safety, CIRP.

2003.6 ~ 2003.12 Assistant researcher

Department of Health Physics and Nuclear Safety, CIRP.

2002.8 ~ 2003.8 Internship researcher

Awards and Honors

- 2016, The Second Class Award for Scientific Progress, awarded by MIIT (Ministry of Industry and Information Technology of People's Republic of China).
- 2016, The Second Class Award for Scientific Progress, awarded by CNNC (China National Nuclear Corporation).
- 4 2016, The Second Class Award for Scientific Progress, awarded by CNNC.
- 2014, Youth Scientist Award by AOARP (Asian-Oceanic Association for Radiation Protection)
- 4 2014, Youth Scientist Award by AARR (Asian Association for Radiation Research).
- 4 2012, Shanxi's Youth Award, by Shanxi province government.
- 2012, The Outstanding Ten Youth Award, by the Commission of Science and Technology of Shanxi Province.
- 4 2012, The Second Class Award for Scientific Progress, by CNNC.
- 4 2012, The Third Class Award for Technology Invention, by MIIT.
- 4 2010, The Outstanding Ph.D thesis of Tsinghua University.
- 4 2010, The First Class Scholarship of "XuanYuan", awarded by Tsinghua University.
- 4 2009, The Third Class Award for Scientific Progress, awarded by MIIT.
- 4 2009, The Third Class Award for Scientific Progress, awarded by CNNC.
- 4 2006, The Outstanding Youth Award for Technology Innovation in Shanxi Province.
- 4 2006, The Outstanding Employer Award by CIRP.
- 4 2006, The Third Class Award for Scientific Progress, awarded by MIIT.
- 4 2006, The Third Class Award for Scientific Progress, awarded by MIIT.

- 2006, The Second Class Award for Scientific Progress, awarded by CNNC.
- 4 2006, The Third Class Award for Scientific Progress, awarded by CNNC.
- 2006, The Outstanding research paper, in the 9th national conference of Monte Carlo method and its application.

Publications

Journals

- [1] K. Karimi-Shahri, L. Rafat-Motavalli, H. Miri-Hakimabad, L. Liu, J.Li, Effects of computational phantoms on the effective dose and two-dosimeter algorithm for external photon beams, Applied Radiation and Isotopes, 115: 155-164, 2016.
- [2] Zhao Ri, **Liu Liye***, Li Junli, Research progress on eye-lens dose monitoring, Radiation Protection, 35(6), 2015.(in Chinese)
- [3] Liu Liye*, Cao Qinjian, Xiong Wanchun, Xiao Yunshi, Zhao Yuan, et al. In-situ gamma spectrometry measurement of radiological source term for primary system of NPPs based on HPGe detector, Radiation Protection, 35(5), 2015.(in Chinese)
- [4] Liu Liye*, Li Hua, Cheng Wei, Xiao Yunshi, Cao Qinjian, Zhao Yuan, Li Junli. Adjustment of chest wall thickness of voxel phantom for numerical efficiency calibration of lung counters, Radiation Protection Dosimetry, 162(4): 563-568, 2014.
- [5] D. Broggio, J. Bento, E. Cardenas-Mendez, J. Farah, T. Fonseca, L. Freire, C. Konvalinka, L. Liu, M. Caldeira, et al, Monte Carlo modeling for the in-vivo lung monitoring of enriched uranium: Results of an international comparison, Radiation Measurements, 47 (2012):492-500.
- [6] LIU Liye, ZENG Zhi, LI Junli*, QIU Rui, ZHANG Binquan, MA Jizeng, REN Li, LI Wenqian, and BI Lei, Organ dose conversion coefficients on an ICRP-based Chinese adult male voxel model from idealized external photons exposures, *Physics in Medicine and Biology 54(2009):* 6645-6673.
- [7] LIU Liye, ZENG Zhi, LI Junli*, ZHANG Binquan, QIU Rui and MA Jizeng, An ICRP-based Chinese adult male voxel model and its absorbed dose for idealized photon exposures——skeleton, *Physics in Medicine and Biology* 54(2009): 6675-6690.
- [8] LIU Liye, Zeng zhi, LI Junli, Protective actions for first responders during recue phase after a "dirty-bomb" attack, *Radiation Protection, 29 (2) (2009):72-79. (in Chinese)*
- [9] Junli LI, Rui QIU, Zhan ZHANG, Liye LIU, Zhi ZENG, Lei Bi and Wenqian LI, Organ dose conversion coefficients for external photon irradiation using the Chinese Voxel Phantom (CVP), *Radiation Protection Dosimetry*, 135(2009):33-42.

- [10] Rui QIU, Junli LI, Zhan ZHANG, Liye LIU, Lei BI and Li REN, Dose conversion coefficients based on the Chinese Mathematical Phantom (CMP) and MCNP code for external photon irradiation, *Radiation Protection Dosimetry*, 134 (2009):3-12.
- [11] Haiyang WANG, Zhi ZENG, Liye LIU, Junli LI. Journal of Tsinghua University(Sci&Tech), 49(2) (2009):168-171. (in Chinese)
- [12] Zhiping LUO, Jizeng MA, Liye LIU, Baowei CHEN, Takeshi IIMOTO and Toshiso KOSAKO, Improvement of a Gas Scintillation Proportional Counter, *Radioisotopes*, 57 (11) (2008): 695-701.
- [13] LIU Liye, Didier Franck, Loic de Carlan, LI Junli. Application of Monte Carlo calculation and OEDIPE software for virtual calibration of an in *vivo* counting system, *Radiation Protection Dosimetry*, 127(1-4) (2007):282-286.
- [14] LIU Liye, MA Jizeng, ZHANG Binquan, PAN Hongjuan, et al. Monte Carlo method for in situ gamma radiological characterization and dose estimation, *Journal of Tsinghua University(Sci&Tech)*, 47 (Suppl.1) (2007): 991-995.(in Chinese)
- [15] LIU Liye, Didier Franck, Loic de Carlan, MA Jizeng, et al. Voxel phantom based on the CT images of Livermore torso phantom and its application in virtual calibration of a real *in-vivo* lung counting system, *Radiation Protection*, 27 (5) (2007): 264-271. (In Chinese)
- [16] Binquan ZHANG, Jizeng MA, Liye LIU, Jianping CHENG. CNMAN: A Chinese adult male voxel phantom constructed from color photographs of a visible anatomical data set. *Radiation Protection Dosimetry*, 124(2) (2007):130-136.
- [17] ZHANG Binquan, MA Jizeng, CHENG Jianping, LIU Liye, Modeling of voxel phantoms for Monte Carlo simulations, *Journal of Tsinghua University*(Sci & Tech), 47 (Suppl.1) (2007): 1085-1088.(in Chinese)
- [18] LIU Liye, MA Jizeng, Didier Franck, Loic de Carlan, ZHANG Binquan, Monte Carlo efficiency transfer method for full energy peak efficiency calibration of three type HPGe detectors: a coaxial N-type, a coaxial P-type and four BEGe detectors, *Nuclear Instruments and Methods in Physics Research A. 564 (2006): 608-613.*
- [19] LIU Liye, MA Jizeng, LI Junli, Study on A Weighted Integration Method for Measuring H' (0.07) Using Plastic Scintillator by Monte Carlo Method, *Nuclear Electronics & Detection Technology, 25(2) 2005: 127-130. (in Chinese)*
- [20] LIU Liye, MA Jizeng, JIN Gang, Influence Of The Plastic Scintillator Detector Thickness On Energy Response For Measuring H' (0.07) Using Monte Carlo Method, *Radiation Protection*, 112 (3) (2005): 178-187. (in Chinese)
- [21] LIU Liye, MA Jizeng, Gas Scintillation Proportional Counter, Nuclear Electronics & Detection Technology, 25(6) (2005): 664-667+650. (in Chinese)
- [22] LIU Li-ye, MA Jizeng, Measurement of H'(0.07) with Plastic Scintillation Pulse Height Weighting Integration Method, *Radiation Protection and Dosimetry*, *112* (3) (2004): 371-376.

- [23] LIU Liye, LI Junli, Cheng Jianping, Jin Gang, New Development of EGS4: EGSWIN, *Nuclear Electronics & Detection Technology*, *22(6) 2002: 537-544*. (in Chinese)
- [24] ZHANG Binquan, MA Jizeng, CHENG Jianping, LIU Liye, Mao yong, Calculation of the Detection Efficiency of an HPGe Detector in Low Energy Photon Measurement with Monte Carlo Method, *Nuclear Electronics & Detection Technology, 25(3) (2005): 274-277.* (in Chinese)
- [25] ZHANG Binquan, MA Jizeng, CHENG Jianping, YANG Duanjie, LIU Liye, Calibration of lung counter using a CT model of torso phantom and Monte Carlo method, *Radiation Protection*, 26(2) (2006): 85-92. (in Chinese)
- [26] JIN Gang, LIU Liye, LI Junli, Development of graphical user interface for EGS, *Nuclear Electronics & Detection Technology*, 22(5) (2002): 438-441. (in Chinese)
- [27] JIN Gang, GAO Haijing, LIU Liye, MA Jizeng, the development of Light Guide: a general-purpose scintillation light transport simulation code, *Nuclear Electronics & Detection Technology*, 23(6) (2003): 563-566. (in Chinese).

Conferences

- [28] Liu Liye*, Zhang Qiang, Introduction of the Radiation Protection Programme in China, Regional Workshop on Occupational Radiation Protection Programmes in line with the IAEA Safety Requirements (GSR Part 3) and Safety Culture, Vienna/Austria, 22-26 August 2016.
- [29] Liye LIU*, Qinjian Cao, Chuan Wang, Hongming Xu, Kong Zhao Kong, Zhonghua Li, Activated Corrosion Source Term Characterization and Their Dose Assessment During The Outage of China's NPPs, Oral presentation, the 61st Annual Meeting of Health Physics Society, Spokane, USA, July 17-22, 2016.
- [30] Qinjian Cao, Liye Liu*, Chuan Wang, Hongming Xu, Kongzhao Wang, Zhonghua Li, Measurement Program for Occupational Exposure Source Term with in-situ Gamma spectroscopy in China's NPPs, Oral presentation, the 2016 ISOE international Symposium, Brussels, Belgium, June, 2016.
- [31] **Liye Liu***, Qinjian Cao, CZT detector applied to the in-situ characterization of deposited activated corrosion products in China's NPPs, the 2015-ISOE Symposium, 2015, Rio Rio de Janeiro, Brazil.
- [32] Liye Liu*, Yawei Mao, Chuan Wang, XiaoQiu Chen, Occupational Radiation Exposure and Radioactive Source Terms Control of PWRs in China, International Conference on Occupational Radiation Protection: Enhancing the Protection of Workers —Gaps, Challenges and Developments, 1–5 December 2014, Vienna, Austria.
- [33] Liu Liye, LI Junli, MA Jizeng, ZHANG Binquan, Development of Chinese Human Phantom and its application in Radiation Dosimetry, *Asian Conference for Radiation Research, Beijing, May 11-13, 2013.*
- [34] LIU Liye, Occupational exposure ALARA-related technology and its prospective in NPPs,

the 2012 Annual Symposium of China Association for Radiation Protection, HangZhou, China, 2012. (Invited lecture)

- [35] LIU Liye*, CAO Qinjian, ZHAO Yuan, XIAO Yunshi, Study on the modification method of human voxel phantom used for virtual efficiency calibration of lung counters, *ICRS-12/RPSD2012 (12th International Conference on Radiation Shielding & 17th Topical meeting of the Radiation Protection and Shielding Division of American Nuclear Society), Nara, Japan, Sep. 2-7, 2012.*
- [36] Qinjian CAO, Liye LIU*, Wanchun XIONG, Yunshi XIAO, Hongjuan PAN, Non-destructive in situ gamma-spectrometry method of radiological characterization for a contaminated pipe during the outage of nuclear power plant, *ICRS-12/RPSD2012*, *Nara, Japan, Sep. 2-7, 2012*.
- [37] Yuan ZHAO, **Liye LIU***, Hongjuan PAN, Baowei CHEN, Qinjian CAO, Experimental validation of the dosimetric reconstruction simulation code VDOSE using Alderson radiation therapy phantom, *ICRS-12/RPSD2012, Nara, Japan, Sep. 2-7, 2012.*
- [38] Xiaofeng WEI, Liye LIU*, Qinjian CAO, Yunshi XIAO, Baowei CHEN, Optimizing the geometrical model of a bege detector for detection efficiency calculation using Monte Carlo method, *ICRS-12/RPSD2012, Nara, Japan, Sep. 2-7, 2012.*
- [39] Baowei CHEN, Yunshi XIAO, Yuan ZHAO, Liye LIU, A computer program used for internal dose estimation: INDO-2008, ICRS-12/RPSD2012, Nara, Japan, Sep. 2-7, 2012.
- [40] LIU Liye*, CAO Qinjian, ZHAO Yuan, XIAO Yunshi, WEN Xiaofeng, and LI Junli, Study of the Influence of Radionuclide Biokinetics Distribution in Human Body on the Efficiency Response of Lung Counters, the 13th International Congress of the International Radiation Protection Association (IRPA-13), Glasgow, 13-18 May, 2012.
- [41] ZHAO Yuan, LIU Liye*, PAN Hongjuan, CHEN Baowei, and CAO Qinjian, A Dosimetric Reconstruction Simulation Code Based On Geant4 and Voxel Phantom for Radiological External Photon Exposure Accident, the 13th International Congress of the International Radiation Protection Association (IRPA-13), Glasgow, 13-18 May, 2012.
- [42] CAO Qinjian, LIU Liye*, XIONG Wanchun, XIAO Yunshi, and PAN Hongjuan, Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector, the 13th International Congress of the International Radiation Protection Association (IRPA-13), Glasgow, 13-18 May, 2012.
- [43] QIU Rui, LI Junli, LIU Liye, REN Li, et al. The Development of Multi-Scale Voxel Phantoms for Chinese Reference Man and Woman, the third International Workshop on Computational Phantoms for Radiation Protection, Imaging, and Radiotherapy, Tsinghua University, Beijing, China, Aug. 8-9, 2011.
- [44] LIU Liye, ZHANG Binquan, LI Junli, MA Jizeng, Development of Chinese Human Voxel Phantom and its application in Radiation Dose Assessment, the 6th International Symposium On Radiation Safety and Detection Technology (ISORD-6), Malaysia, July 11-14, 2011. (invited lecture)

- [45] LIU Liye, ZHAO Yuan, CAO Qinjian, XIAO Yunshi, LI Junli, MA Jizeng, Influence of radionuclide biokinetics distribution in human body on the response of whole body counters, the Sixth International Symposium On Radiation Safety and Detection Technology (ISORD-6), Langkawei, Malaysia, July 11-15, 2011.(oral)
- [46] LIU Liye, YANG Huating, Current Status and Perspective on RP Culture in China, Asian and Oceanic Workshop on Radiation Protection Culture & 2010 Annual Autumn Symposium of Korean Association for Radiation Protection, Korea, Nov. 2010. (invited lecture)
- [47] LIU Liye, ZENG Zhi, LI Junli, ZHANG Binquan and QIU Rui, Site-specific skeleton voxel model representing Chinese Reference adult Man and its absorbed dose for idealized photon exposures, *The 54th Annual Meeting of the Health Physics Society, Minneapolis, MN, July 12-16, 2009.*
- [48] **LIU Liye**, Yang Huating, Current Status and Perspective of Radiation Protection Culture in China, the 2010 Annual Autumn Symposium and Workshop of Korean Association for Radiation Protection, Nov. 24-28, 2010.
- [49] **LIU Liye**, Monte Carlo Simulation and its Application in Radiation Protection, *the National* 2010's Symposium on Advanced Computational Technology, sponsored by NSFC, Beijing, 2010.8.(in Chinese)
- [50] LIU Liye, ZENG Zhi, LI Junli, First Responders' Protective Actions for the Recue Phase Emergency Management after a "Dirty Bomb" Attack, Doctoral Candidates Forum of Tsinghua University in 2008. (In Chinese)
- [51] LIU Liye, MA Jizeng, ZHANG Binquan, CAO Qinjian, Monte Carlo efficiency transfer method for full energy peak efficiency calibration of a CdZnTe detector, the Second Asian and Oceanic IRPA congress on radiological protection(AOCRP-2), Beijing, China, 2006. (In English)
- [52] LIU Liye, MA Jizeng, ZHANG Binquan, JIN Yueru, Efficiency Calibration of a P-Type Coaxial HPGe Detector with Measurements and an EGS4 User Code HPGe-MC, Poster presentation, International Radiation Physics Society Workshop on Frontier Research in Radiation Physics and Related Areas (10-14, Nov.), Chengdu, China, 2004. (In English)
- [53] LIU Liye, MA Jizeng, FAN Yaoguo, Radon Level and its Influence on the Low-Background Whole Body Counting system, ISORD-2 (the Second iTRS International Symposium On Radiation Safety and Detection Technology), Poster presentation, Japan, 2003. (In English)
- [54] ZHANG Binquan, MA Jizeng, LIU Liye, CHENG Jianping, A Chinese Adult Male Voxel Model Established Based on a Chinese Visible Anatomical Data Set, the Second National Conferences of China Public Health Association, Beijing, China, 2006. (the Outstanding Youth Research Paper Award)
- [55] Zhang B Q, Ma J Z, **LIU LY**. China Conversion Coefficients for External Radiation Calculated in a Voxel Phantom Using Monte Carlo Methods. 3-rd International Symposium on Radiation

Safety and Detection Technology, 2005, Taiyuan, China.

- [56] ZHANG Binquan, MA Jizeng, CHENG Jianping, LIU Liye, MAO Yong, Calculation of the detection efficiency of a HPGe detector in low energy photon measurement with Monte Carlo method, Poster presentation, International Radiation Physics Society Workshop on Frontier Research in Radiation Physics and Related Areas (10-14, Nov.), Chengdu, China, 2004. (In English)
- [57] Jizeng MA, Hongjuan PAN, Qingli ZHANG, Liye LIU, Development Of An Infrared Optical Stimulated Luminescence System For Accidental Dosimetry, Poster presentation ISORD-2 (the Second iTRS International Symposium On Radiation Safety and Detection Technology), Japan, 2003.
- [58] MA Jizeng, ZHANG Jun, LIU Liye, Occuptional Exposure Source Term Investigaton and Prospective Dose Assessment for Radiation Protection in Nuclear Facitilites. National Conferences on the Radiation Protection of Nuclear Facitilies, Beijing, China, 2002.
- [59]ZHANG Binquan, MA Jizeng, **LIU Liye**, the application of voxel phantom in calibration of in-vivo monitoring, Doctoral Candidates Forum of Tsinghua University in 2003.
- [60] LIU Liye, MA Jizeng, Measurement of H'(0.07) with Plastic Scintillator Pulse Height Weighting Integration Method (theory part), the First Asian and Oceanic Congress for Radiation Protection, Seoul, Korea, Poster-paper, 2002.