

**Name of the Associate Society making the proposal:** Japan Health Physics Society

**Name of the candidate:** Michiya Sasaki

**Name of the Associate Society to which the candidate belongs:** Japan Health Physics Society

**Regional affiliation of the candidate:** Asia/Oceania

### **Curriculum Vitae:**

#### **Personal Data of Michiya Sasaki**

Name: Michiya Sasaki, Ph.D.

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#### **Workplace**

Biology and Environmental Chemistry Division, Sustainable System Research Laboratory,  
Central Research Institute of Electric Power Industry (CRIEPI)

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#### **Skills**

Health physics, neutron and gamma ray measurement, Monte Carlo calculation (MCNP, PHITS), dose assessment, radiation monitoring, epidemiology, radiation risk assessment, internal exposure dose assessment, clearance level calculation

#### **Positions**

2017–present Senior Research Scientist, CRIEPI

2012–2014 Assistant Scientific Secretary, ICRP

2002 April, employed at CRIEPI

#### **Major publications**

1. M. Sasaki, T. Kimura, Investigation of the Scenarios and Parameters in the Derivation of Surface Contamination Standard, *Jpn. J. Health. Phys.*, 58(4), 209–219 (2023).
2. M. Sasaki, K. Furukawa, D. Satoh, K. Shimada, S. Kudo, S. Takagi, S. Takahara, M. Kai, SUMRAY: R and Python Codes for Calculating Cancer Risk Due to Radiation Exposure of a Population, *J. of Radiat. Prot. Res.*, 48(2), 90–99 (2023).
3. M. Sasaki, T. Kimura, T. Hattori T, Quantitative evaluation of conservatism included in parameter settings for clearance level calculations: a case study in Japan, *Radiation Protection Dosimetry*, 1–7, <https://doi.org/10.1093/rpd/ncac278> (2022).
4. M. Sasaki, Y. Fujimichi, K. Yoshida, T. Iwasaki, Calculation of an Indicator for Early Death Using Atomic Bomb Survivors' Data, *J. of Radiat. Prot. Res.*, 47(1), 22–29 (2022).

5. M. Sasaki, H. Ogino, T. Hattori, Quantitative evaluation of conservatism in the concept of committed dose from internal exposure for radiation worker, *J. Radiol. Prot.*, 41, 1328–1343 (2021).
6. Y. Fujimichi, M. Sasaki, K. Yoshida, T. Iwasaki, Estimated Risks of Radiation-induced Solid Cancers from Various Exposure Conditions and the Effects of Age and Follow-up Period on These Risks, *Jpn. J. Health. Phys.*, 55(3), 144–153 (2020).
7. M. Sasaki, S. Kudo, H. Furuta, Effect of Radiation Dose Rate on Cancer Mortality among Nuclear workers: Reanalysis of Hanford Data, *Health Physics*, 117(1), 13–19 (2019).
8. M. Sasaki, H. Ogino, T. Hattori, Case Study of the Minimum Provable Risk Considering the Variation in Background Risk: Effect of Residual Risk on Epidemiological Studies and a Comparative Assessment of Fatal Disease Risk due to Radiation Exposure, *Health Physics*, 115(4), 432–438 (2018).
9. M. Sasaki, Photon-fluence-weighted LET for radiation fields subjected to epidemiological studies, *Health Physics*, 113(2), 143–148 (2017).
10. M. Sasaki, T. Hattori, Development of a Method and System for Clearance Level Inspection Using a Shape Measurement Technique, *Jpn. J. Health. Phys.*, 39(4), 335–344 (2004).

### Work experience

Dr. Michiya Sasaki joined the Central Research Institute of Electric Power Industry (CRIEPI) in April 2002 immediately after earning his Ph.D. degree from Tohoku University Graduate School. He joined the Radiation Measurement Group and was assigned to develop the clearance monitoring system (CMS) for the measurement of very low level gamma radiation and the activity distribution evaluation system for large radioactive waste package transport.

Immediately after the Fukushima Daiichi Nuclear Power Plant Accident in 2011, he conducted radiation monitoring work at J-Village. From 2012 to 2014, he worked at the Scientific Secretariat of the International Commission on Radiological Protection (ICRP). At the ICRP, he gained in-depth knowledge about the system of radiological protection by joining and supporting the ICRP activities, mainly in Fukushima dialogue initiatives.

After returning to CRIEPI in 2014, his main research interests were risk assessment and its application to the system of radiological protection. For this, he studied epidemiological risk estimation and risk projection for low-dose and low-dose-rate radiation exposure, considering the uncertainties due to the variation of baseline risk, age at exposure and observation period.

He has been serving as the managing director and chair of the international correspondence committee of the Japan Health Physics Society (JHPS) since 2019. He worked as a secretary for Task Group (TG) on low-dose and low-dose rate radiation risk estimation methodology from 2016 to 2018. He also worked as a chair for TG on the development of a calculation code of cancer risk due to radiation exposure from 2020 to 2022.

**Statement of motivation:**

IRPA plays an important role in the framework of radiation protection by bringing the voice of practice to international organisations. As the ICRP General Recommendation is currently being revised, I believe that IRPA members need to bring their experiences to the ICRP and continue to communicate and work together to improve the ICRP's next General Recommendation.

From the 2007 ICRP Recommendation to the next Recommendation, we have gained much experience and knowledge about radiation protection. More than a decade has already passed, and after the accident at TEPCO's Fukushima Daiichi Nuclear Power Station in March 2011, many lessons have been learned. I went to J-Village in Fukushima in April 2011 immediately after the disaster to provide practical support to the accident response through work related to radiation measurements. In addition, as the Assistant Scientific Secretary of the ICRP, I was involved in the organisation of the first seven ICRP Dialogue Series and gained much knowledge from different perspectives by listening to various participants.

Since 2014, I have been involved in research on radiation risk assessment, as well as in society activities, to disseminate opinions to society and to engage in international collaboration. I have also worked in collaboration with other societies of the Japan Health Physics Society as a board member and chair of the International Correspondence Committee since 2019. Regarding activities related to the risk assessment of low-dose-rate radiation, which is the main subject of radiation protection, I served as a secretary and a chair of study groups, and also as a secretary of a joint committee with the Japanese Radiation Research Society, in which I helped complete a report on the consensus on low-dose radiation risk.

As a member of ICRP TG 123 since 2022, I have also participated in discussions on the classification of radiation effects and have been actively involved in one of the pillars of radiation protection: science. I believe that my membership in the IRPA EC will contribute to the further development of IRPA and the process of revising the next ICRP General Recommendations, which will benefit the general public and IRPA members worldwide.

**Statement of willingness to serve if elected:**

If elected as a member of the IRPA EC, the following three main points would be addressed.

- Input to a new framework for radiation protection from Japan on basis of experience in Fukushima.
- Involvement in the consideration of a graded approach, using my expertise and experience.
- Strengthening IRPA-AOARP cooperation, supporting non-AOARP societies and fostering YGN activities, with the aim of developing radiation protection societies in the Asia-Oceania region.



March 4, 2024

Dear Ms. Ana-Maria Bomben:  
Executive Officer of IRPA:

I am very happy to inform you the nomination of IRPA EC on behalf of Japan Health Physics Society. Please find the attached CV of the nominee for EC members for the next 2024-2028 IRPA term. Unfortunately, I have not found the format of letter of interest of candidates running for EC members.

Thank you for your acceptance.

Best regards,

*Nobuyuki Sugiura*

Nobuyuki Sugiura  
President of Japan Health Physics Society