

Short CV Hielke Freerk Boersma

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Hielke Freerk Boersma obtained his Master's degree in theoretical high energy physics from the University of Groningen in 1986 (cum laude). Consecutively he obtained a PhD-position at the Kernfysisch Versneller Instituut in Groningen where he got his PhD in 1992 on a topic in theoretical nuclear physics. From 1993 until 1997 Hielke Freerk held various positions at Science Shops at the Universities of Groningen and Utrecht, being particularly involved in acoustical and radiation topics. In 1994, he completed the basic RPE course ('level 3').

In 1997, he was appointed radiation protection expert at the University of Groningen, where he became responsible for the RP policy, the internal license system and the coordination of supervision at the university. In 1999, he also became responsible for the Education and Training program in RP of the University of Groningen, which he extended considerably in the consecutive years. In 2000, Hielke Freerk graduated from the level 2 RPE course (for RPEs of complex licenses) at the Leiden University Medical Centre / Technical University Delft (LUMC/TUD). He participated in the course organization of the level 2 courses held in the seasons 2005-2006, 2010-2011 and in 2016. Hielke Freerk also acts as the laser safety coordinator of the University of Groningen (since 2017).

From 2002 onwards, Hielke Freerk served as member of the Board of the Dutch Society for Radiation Protection (NVS). His term ended November 2020. He coordinated the committee for refresher courses from 2003 until 2008. In this period, he organized one refresher course a year on various topics in RP, like implementation of national legislation, radiobiology, laser safety and radiotherapy. Hielke Freerk was president of the NVS in from 2008 - 2014. As such, he served as the representative of the NVS in international meetings (IRPA Associate Society Forum, European IRPA Presidents meeting) and initiated renewed contacts with national organizations in medical physics, radiobiology and dosimetry. He served as member of the Scientific Program Committee of the 14th IRPA congress in Cape Town (2016 – IRPA14), IRPA15 in Seoul (2020) and the European IRPA congress in The Hague (2018) as well as member of the Grants Committee for the Young Professional Award at the European IRPA congresses in Helsinki (2010), Geneva (2014) and The Hague (2018) and at IRPA14.

Hielke Freerk held the position of member for congress and international affairs within the Board of the NVS from 2014 until 2020. As such, he has been heavily involved in the organization of the fifth European IRPA Congress (The Hague – 2018), which he served as congress president. Most recently, Hielke Freerk was involved in an expert mission to Suriname on the RP regulatory infrastructure. He and his colleagues studied the possibility of RP professionals in Suriname becoming member of the NVS and thus of IRPA, culminating in the realization of a chapter 'Radiation Protection in Suriname and the

Caribbean area' in November 2020. Hielke Freerk intends to serve as the secretary of this newly established chapter.

Hielke Freerk is a generalist in RP, with a broad experience in RP in a research environment as well as in E&T in RP. Because of the origin of the majority of students, he also has general knowledge of medical applications of ionizing radiation. Apart from general RP, his particular interest is Education and Training in RP and its harmonization and/or mutual recognition. This is reflected by his involvement in the EUTERP-foundation as National Contact Point for the Netherlands, his contribution to the IRPA Working Group on Certification and Qualification and his many attendances and contributions to IRPA-congresses, ETRAP-conferences and EUTERP-workshops from 1999 onwards. Hielke Freerk was a member of the Dutch Health Council from 2010 until 2014. Currently he is a member of the External Review Committee of the subsidized research program of the Nuclear Research and consultancy Group (NRG), starting in 2014. Hielke Freerk is a member of the program committee of the next ETRAP conference to be held online in March 2021. Finally, Hielke Freerk has been nominated by the NVS as a member of the IRPA Rules committee for the next term.

Hielke Freerk Boersma, autumn 2020

Personal motivation for accepting the nomination as candidate for the membership of the IRPA EC

As a radiation protection expert and training provider for an academic institution, sharing my knowledge and experience has always been a driving force in my career. I consider it a moral duty to share this experience that I have gained at the expense of society, with a wider community. After having served the Dutch Society for Radiation Protection for almost 19 years, I feel ready to expand my scope to the international radiation protection community. The past decade gave me already the opportunity to increase my international network, especially when acting as congress president for the 5th European regional IRPA congress. I intend to share my experience as radiation protection professional in the IRPA EC, with a strong focus on the (importance of) education and training - being the essential elements to maintain a strong work force in the long term as well as building competency in developing countries. Furthermore, it is my conviction that a firm representation of radiation protection professionals in the IRPA EC is of utmost importance to have an adequate balance between RP science and practice. I believe to be able to contribute to this balancing in a proper way. I owe NVS many thanks for nominating me and I am looking forward to cooperate with the IRPA EC!

Hielke Freerk Boersma, December 2020