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BIO - Harri Toivonen



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Since 1996 I have been involved in nuclear measurements and analyses within the Radiation and Nuclear Safety Authority (STUK), Finland. Initially I worked as a scientist devoted to health impact of ionizing radiation. Later I served as the Head of Laboratory for Airborne Radioactivity and for Security Technology. Under my leadership several innovative technologies were discovered and implemented for the Finnish national safety and security. My most prominent recent achievement is the development of reachback technology which truly puts the nuclear analysts virtually to middle of field operations although all data processing happens far away in an analysis centre.¹

In 2015 I started my own company, HT Nuclear Ltd, with key business idea in nuclear security consultations, training and software services for data analysis and management.

I bring enthusiasm to continue R&D in the private sector together with the universities. I continually solicit novel ideas keeping abreast of the competition towards new safety and security solutions for authorities and citizens. I keep touch with my domestic and foreign colleagues to pursue novel technologies for safety and security, including safeguards and nuclear arms control.

By education I am a doctor of physics, PhD, in nuclear engineering. I have served five years as the evaluation officer in the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), Vienna. I have been the key person to pursue novel approaches and technologies for the European Safeguards Research and Development Association (ESARDA). I have been involved in writing several international documents on nuclear security for the International Atomic Energy Agency (IAEA) and the Global Initiative to Combat Nuclear Terrorism (GICNT).

I speak Finnish, Swedish, English and German, and have basic skills to read Russian.

I like hiking, play sometimes sudoku, and love mathematics.

¹Remote expert support of field teams - Reachback services for nuclear security.

<https://erncip-project.jrc.ec.europa.eu/download-area/viewcategory/9-radiological-and-nuclear-threats>