



Agenda

The importance of communicating scientific facts: addressing radiation concerns in societies – the role of science technology and society

View from Belgium, Europe and Internationally

The purpose of the event is to present, select and promote best practices of institutions and experts when communicating scientific facts to the public and addressing radiation concerns in societies in Belgium and internationally. We will further develop suitable and effective concepts to enhance the understanding at the intersection of radiation, medicine education and STS communication. The multidisciplinary capacity building of health and environmental professionals and students engaged with society and patients will be demonstrated and best approaches recommended. The discourse regarding environmental monitoring, bio-dosimetry and self-measurements methodologies, interpretation of measurements and specific communications methods will be continued. We will consolidate input and knowledge shared by the international network enhancing the cooperation within the medical community and the ability to communicate Low-dose radiation situations and for different levels of expertise and comprehension. Discussions on the way forward and the setup of the subsequent consultancy meeting will be held.

Key:







-  in-person presentation | **12 Min** Max
-  recorded and streamed presentation | **7 Min** Max

Day 1 | November 2, 2022

Location: TABLOO

<p>CET: 9:30 - 9:40</p> <p>JST: 17:30 - 17:40</p> <p>EDT: 3:30 - 3:40</p>	<p>Opening remarks</p> <p>Hildegarde Vandenhove, EHS director, SCK CEN, Belgium</p> <p>May Abdel-Wahab, Director, Division of Human Health, IAEA</p>
<p>9:40 - 10:40</p> <p>17:40 - 18:40</p> <p>3:40 - 4:40</p>	<p>SESSION 1</p> <p>Communication and STS</p> <p><i>General and basics, specifics in medical, environment and society, commonalities</i></p> <ul style="list-style-type: none"> - Communication about ionizing radiation and its effects on health - Demonstrated Impact, future opportunities, and dissemination of knowledge (publishing, guidance documents, media cooperation) <p>Chair: Prof. Kamiya, Hiroshima University and Fukushima Medical University, Japan</p> <p>Chair: Hildegarde Vandenhove, SCK CEN, Belgium</p>
	<p>■ <i>Communicating scientific facts.</i></p> <p>May Abdel-Wahab, Director, Division of Human Health, IAEA, Austria</p>
	<p>■ <i>Public Radiation Education from an STS Perspective: Some Needs and Cautions.</i></p> <p>Greg Clancey, National University of Singapore, Singapore</p>
	<p>■ <i>Health communication related to radiation: Challenges and opportunities.</i></p> <p>Tanja Perko, SCK CEN, Belgium</p>
	<p>■ <i>Radiological and nuclear incidents: what's in a name?</i></p> <p>Tom Boterberg, Ghent University Hospital, Belgium</p>
	<p>■ <i>Association between risk perception and mental health, and the importance of social capital of trust to improve risk communication ~Fukushima Health Management Survey and risk communication~</i></p> <p>Kenji Kamiya, Hiroshima University, Fukushima Medical University, Japan</p>
	<p>■ <i>Experiences in risk communication for recovery of the community in Fukushima after a nuclear disaster.</i></p> <p>Noboru Takamura, Nagasaki University, Japan</p>
	<p>■ <i>Putting the science first – challenges in the communication of radiation risk.</i></p> <p>Gerry Thomas, Imperial College London, UK</p>
<p>10:40 - 11:00</p> <p>18:40 - 19:00</p>	<p>Debate and Discussion</p>
<p>11:00 - 11:20</p> <p>19:00 - 19:20</p>	<p>Short Break</p>

<p>11:20 - 12:20</p> <p>19:20 - 20:20</p> <p>5:20 - 6:20</p>	<p>SESSION 2</p> <p>Medical communications</p> <p><i>General and specifics, treatment related, errors and medical implications through bio-dosimetry, environmental influence and (self) measurements, potential relevance for environmental understanding and learning</i></p> <ul style="list-style-type: none"> - Communications about medical applications and medical exposure, informed consent concept - Stakeholder involvement, demonstrated impact, future challenges, and dissemination (publishing, guidance documents) <p>Chair: May Abdel-Wahab, Director, Division of Human Health, IAEA</p> <p>Chair: Frank Deconinck, Vrije Universiteit Brussels, Belgium</p>
	<p>■ <i>Interdisciplinarity avoids tunnel vision.</i></p> <p>Frank Deconinck, Vrije Universiteit Brussel, Belgium</p> <hr/> <p>■ <i>Risk management of the nuclear medicine patient: a need for harmonization.</i></p> <p>Peter Covens, Vrije Universiteit Brussel (VUB) & UZ Brussel, Belgium</p> <hr/> <p>■ <i>Communication with Fukushima residents in the Thyroid Ultrasound Examination program.</i></p> <p>Hiroki Shimura, Fukushima Medical University, Japan</p> <hr/> <p>■ <i>The importance of pre-scripted messages and what to do when the audience is highly sophisticated.</i></p> <p>Norm Coleman, National Cancer Institute, USA</p> <hr/> <p>■ <i>Individual monitoring of external radiation in Fukushima.</i></p> <p>Masaharu Tsubokura, Fukushima Medical University, Japan</p> <hr/> <p>■ <i>Secondary Malignancies after Radiotherapy for Prostate Cancer</i></p> <p>Becky Lee, IAEA, Austria</p>
<p>12:20 - 12:40</p> <p>20:20 - 20:40</p>	<p>Debate and Discussion</p>
<p>12:40 – 13:25</p> <p>20:40 – 21:25</p>	<p>Lunch</p>
<p>13:25- 14:25</p>	<p>Guided tour at specific parts of TABLOO</p> <p>SCK CEN colleagues presenting medical part, radiation protection and waste, as well as local stakeholder's part</p>

<p>14:30 - 15:30</p> <p>22:30 - 23:30</p> <p>8:30 -9:30</p>	<p>SESSION 3</p> <p>Environmental communications</p> <p><i>General and specifics, of radiation in environment, agriculture, decommissioning and burned fuel storage, potential relevance for medical understanding and learning</i></p> <ul style="list-style-type: none"> - Communications about Radon, population living near NPP, potentially contaminated sites of decommissioned power plants and burned fuel storage sites, NORM sites, addressing long-term exposure, environmental monitoring, emergencies and post-emergencies - Stakeholder involvement, demonstrated Impact, future challenges, and dissemination (publishing, guidance documents) <p>Chair: Kathy Hibbert, Canada Chair: Tanja Perko, SCK CEN, Belgium</p>
	<p> <i>Stakeholder engagement and communication about potentially contaminated food: strengthening preparedness for better response.</i></p> <p>Catrinel Turcanu, SCK CEN, Belgium</p> <hr/> <p> <i>Public perceptions and attitudes towards management of radioactive substances in food – implications for communication</i></p> <p>Yevgeniya Tomkiv, Norwegian University of Life Sciences, Norway</p> <hr/> <p> <i>Joint investigation of 137Cs activity concentration in self-consumed crops produced by returnees in Namie, Fukushima.</i></p> <p>Hirofumi Tsukada, Fukushima University, Japan</p> <hr/> <p> <i>Packaging techniques from radiological survey to radiation exposure assessment for radiation protection in evacuated areas.</i></p> <p>Yukihisa Sanada, Fukushima Environmental Safety Center, Sector of Fukushima Research and Development, JAEA, Japan</p> <hr/> <p> <i>Where to find data for comparisons when measuring radioactivity in food.</i></p> <p>Carl Blackburn, FAO/IAEA Centre, Austria</p> <hr/> <p> <i>Artificial Intelligence for Monitoring and Remediating Radioactive Contamination in Agriculture.</i></p> <p>Gerd Dercon, FAO/IAEA Centre, Austria</p>
<p>15:30 - 15:50</p> <p>23:30 - 23:50</p>	<p>Debate and Discussion</p>
<p>16:00 – 18:00</p>	<p>Special Training Program:</p> <p>Laboratory tour</p> <ul style="list-style-type: none"> - Bus transport from Tabloo to SCK CEN, and SCK CEN to Hotel - Visit the SCK CEN radiobiology labs and dosimetry labs – concentration on medical aspects

<p>18:00</p> <p>02:00</p> <p>12:00</p>	<p>END OF DAY 1</p>
<p>19:00 – 21:00</p>	<p>Hospitality Event:</p> <p>For all in-person participants at a restaurant near hotel in Mol</p>

Day 2 | November 3, 2022

Location: TABLOO

9:30 - 10:30	SESSION 4
17:30 - 18:30	Societal Considerations
3:30 - 3:40	<i>General, situation and perspectives, ethical, philosophical, critical thinking, policy, stakeholder, resources</i> <ul style="list-style-type: none">- Stakeholder involvement, demonstrated impact, future challenges, and dissemination (publishing, guidance documents) Chair: Klaus Bacher, Ghent University, Belgium Chair: Greg Clancey, National University of Singapore, Singapore
	<p>■ <i>"GU-GU-RU" Project, tentative summary from the interviews conducted for audiences of its seminar at a local hospital.</i> Isamu Amir, Fukushima Medical University, Japan</p> <hr/> <p>■ <i>Communication in a world of local diversity and global connectedness.</i> Kathy Hibbert, Western University, Canada</p> <hr/> <p>■ <i>Communicating methodology development and environmental radiation measurements to stakeholders and society.</i> Uwe Scholz, IAEA, Austria</p> <hr/> <p>■ <i>The Belgian college of radiation oncology: two decades of peer review, education and communication on safety and quality.</i> Yolande Lievens, Ghent University Hospital, Belgium</p> <hr/> <p>■ <i>Communicating advances in public mental health monitoring through an open review of social dynamics in Japan.</i> Russell Sarwar Kabir, Hiroshima University, Japan</p>
10:30 - 10:50	Debate and Discussion
18:30 - 18:50	
10:50 - 11:10	Short Break
18:50 - 19:10	

<p>11:10 – 12:10</p> <p>19:10 - 20:10</p> <p>5:10 -6:10</p>	<p>SESSION 5</p> <p>Capacity building</p> <p><i>General, situation and perspectives of capacity building (education, trainings, lifelong learning)</i></p> <ul style="list-style-type: none"> - Capacity building for medical personnel, radiation specialists, stakeholder involvement? - Demonstrated impact, future challenges, and dissemination (publishing, guidance documents) <p>Chair: Tomoaki Tamaki, Fukushima Medical University, Japan</p> <p>Chair: Yolande Lievens, Ghent University Hospital and Ghent University, Belgium</p>
	<p>■ <i>Education of Medical Students and Professionals on Radiation as Citizens, Patients, and Physicians.</i></p> <p>Tomoaki Tamaki, Fukushima Medical University, Japan</p> <hr/> <p>■ <i>Science for, with and by citizens: investigating Citizen Science in post-Fukushima Japan.</i></p> <p>Joke Kenens, SCK CEN, Belgium</p> <hr/> <p>■ <i>Role of medical physics in the capacity building of health professionals and medical students</i></p> <p>Klaus Bacher, Ghent University, Belgium</p> <hr/> <p>■ <i>Applying the two pillars of health literacy after the Fukushima nuclear accident.</i></p> <p>Aya Goto, Fukushima Medical University, Japan</p> <hr/> <p>3 Phoenix Leader Program students:</p> <p>■ <i>Early experience in research and training in Phoenix Leader Education Program at Hiroshima University: For contribution to radiation medicine in Mongolia</i></p> <p>Anarkhuu Bold-Erdene, Hiroshima University, Japan</p> <p>■ <i>Learnings and Experiences Under the Phoenix Program relating to STS</i></p> <p>Gloriamaris Loy Caraos, Hiroshima University, Japan</p> <p>■ <i>Early Experiences in research and training in Hiroshima University or capacity building</i></p> <p>Mirkatouli Nafiseh Beygom, Hiroshima University, Japan</p>
<p>12:10 – 12:30</p> <p>20:10 - 20:30</p>	<p>Debate and Discussion</p>
<p>12:30 - 14:00</p>	<p>Lunch (paid individually)</p>

<p>14:00 - 14:45</p> <p>22:00 - 22:45</p> <p>8:00 -8:45</p>	<p>SESSION 6</p> <p>Training basics for Belgium, Japan and Internationally</p> <p>Chair: May Abdel-Wahab, Division of Human Health, IAEA</p> <p>Chair: Michèle Coeck, SCK CEN, Belgium</p>
	<p>■ <i>Perspective of Belgian academic and public stakeholders</i></p> <p>Yolande Lievens, Ghent University Hospital and Ghent University, Belgium</p> <p>Klaus Bacher, Ghent University, Belgium</p> <hr/> <p>■ <i>Japan Partner institutions perspective / experiences</i></p> <p>Tomoaki Tamaki, Fukushima Medical University, Japan</p> <hr/> <p>■ <i>Professional Communications' Training: Using the whole semiotic toolkit</i></p> <p>Kathy Hibbert, Western University, Canada</p>
<p>14:45 - 15:00</p> <p>19:55 - 20:05</p>	<p>Overall Discussion</p>
<p>15:00 – 17:00</p>	<p>Table-Top Communication Exercise (partially outside and inside) (probably no online streaming)</p> <p>Exercise management:</p> <p>Organisation: Johan Camps</p> <p>Intervention/measurement team: Vandersteen Katrijn, Janez Perko</p> <p>Mitigation advice: Catrinel Turcanu</p> <p>Communication with individuals and public: Tanja Perko</p> <p>Scenario: Accidental release of radioactive iodine in the environment from a production of radionuclides for hospitals, trainers, communication experts, dosimetry experts, crisis unit</p>
<p>17:00</p> <p>1:00</p> <p>11:00</p>	<p>END OF DAY 2</p>

Day 3 | November 4, 2022

Location: SCK CEN

<p>9:00 - 10:30</p> <p>17:00 - 18:30</p> <p>3:00 - 4:30</p>	<p>Training (online streaming)</p> <p>9.00 - 9.30 The sense and nonsense of shielding in medical radiological applications</p> <p>Jérémie Dabin, DCS</p> <p>9.30 - 10:40 Interactive workshop on ethical aspect related to ionizing radiation.</p> <p>Gaston Meskens, SCK CEN</p> <p>This workshop starts with an analysis of the complexity of nuclear risk governance to then link these insights to the question of how approaches to science as policy advise and political decision making could 'generate societal trust'. The idea is that this trust would need to be generated 'by method instead of proof', regardless of whether the outcome of decision making would be acceptance or rejection of the technology. Case studies thereby inspire theoretical reflection and vice-versa.</p> <p>The overall aim of this workshop is to stimulate thinking and dialogue with respect to</p> <ul style="list-style-type: none">• the complexity of the relation between ethics, science and technology in the case of nuclear technology applications;• the moral foundations of health risk governance and medical ethics in general and of radiological protection in particular;• the practical implications for research and policy. <p>Special attention will be given to the context of medical applications. The focus in this context will be on an approach rooted in the medical tradition and 'alert to contemporary social expectations' [1], with the aim to provide course participants with a practical framework against which they can assess the safety and acceptability of medical procedures, including patients' concerns.</p>
<p>10:30 - 10:50</p> <p>18:30 - 18:50</p> <p>4:30 - 4:50</p>	<p>Debate and Discussion on Training</p> <p><i>Feedback on training videos on radiological risk perception, decontamination, and communication</i></p>
<p>10:50 - 11:10</p> <p>18:50 - 19:10</p>	<p>Short Break</p>
<p>11:10 - 12:00</p> <p>19:10 - 20:00</p>	<p>Overall Discussion</p> <p>Chair: Kenji Kamiya, Hiroshima University and Fukushima Medical University, Japan</p> <p>Chair: Greg Clancey, National University of Singapore, Singapore</p>

<p>12:00 - 12:10</p> <p>20:00 - 20:10</p>	<p>Closing Remarks</p> <p>Hildegarde Vandenhove, EHS director, SCK CEN, Belgium</p> <p>May Abdel-Wahab, Director, Division of Human Health, IAEA</p>
<p>12:10</p> <p>20:10</p>	<p>END OF DAY 3</p>

