

Nordic Nuclear and Radiation Risk Estimates - Advances and Uncertainties

- Joint NKS-R and NKS-B Seminar, Finlandshuset, Stockholm, 15-16 January 2019

Program

Tuesday 15 January:

13:00 – 13:10	Welcome	Sigurður Magnússon (GR/NKS Chair) + Fredrik Hassel (SSM)
13:10 – 14:00	Key speaker No. 1: <i>Emergencies, ethics and evolution</i>	Claire Cousins (Chair of ICRP)
14:00 – 14:20	<i>Overview of the NKS-R and NKS-B programs</i>	Christian Linde (SSM/NKS-R) Kasper Andersson (DTU/NKS-B)
Session I: Advances and uncertainties in estimating NPP risk processes (Chair: Annelie Bergman, SSM)		
14:20 – 15:40	<i>Site risk analysis for nuclear installations</i> (NKS-R SITRON)	Jan-Erik Holmberg (Risk Pilot, Finland)
	<i>Assessment of corium risk of a Nordic BWR</i> (NKS-R SPARC)	Weimin Ma (KTH)
	<i>Reliability of fire barriers</i> (NKS-R FIREBAN)	Patrick van Hees (Lund U)
	<i>RApid Source TErM Prediction (RASTEP) – A versatile tool for decision support in nuclear emergency situations</i> (NKS-R RASTEP)	Anders Riber Marklund (LRC)
15:40 – 16:10	Coffee or tea	
Session II: Advances and uncertainties in estimating accident risks to the population (Chair: Carsten Israelson, DEMA)		
16:10 – 16:50	Key speaker No. 2: <i>Perspectives on interaction with society and associated risks and uncertainties</i>	Britt-Marie Drott Sjöberg (NTNU)
16:50 – 18:15	<i>An Exercise in Early Phase Source Term Estimation From Gamma Spectra</i> (NKS-B EPHSOGAM)	Mark Dowdall (NRPA)
	<i>Effects of source-term uncertainty and meteorological uncertainty on plume prediction</i> (NKS-B AVESOME)	Jens Havskov Sørensen (DMI)
	<i>Ways to reduce uncertainties in mobile search of radioactive material out of regulatory control</i> (NKS-B AUTOMORC)	Robert Finck (Lund U)
	<i>Modelling uncertainties and use of uncertain model results in nuclear emergency preparedness</i> (NKS-B MESO)	Steen Hoe (DEMA)
18:15 – 20:00	Reception/poster session with finger-food	

Wednesday 16 January:

Coffee or tea		
08:30 – 09:00	Key speaker No 3: <i>SSM:s view on how to secure competence in radiation safety in Sweden</i>	Anneli Hällgren (SSM)
Session IIIa: Advances, risks and uncertainties in decommissioning and long-term operation (Chair: Ole Harbitz, NRPA)		
09:00 – 09:40	Key speaker No. 4: <i>Uncertainties in nuclear back-end management and the path towards a sustainable decommissioning paradigm</i>	Kristina Gillin (LRC)
09:40 – 10:20	<i>Status of the decommissioning activities in the Nordic countries</i>	Martin Amft (SSM)
	<i>Digital technology aided innovation for planning and cross-cutting issues in nuclear decommissioning (NKS-R NORDEC)</i>	István Szőke (IFE)
10:20 – 10:50	Coffee or tea	
Session IIIb: Advances, risks and uncertainties in decommissioning and long-term operation (Chair: Jorma Aurela, MEAE)		
10:50 – 11:50	<i>Safety culture change tools in different life cycles of a nuclear power plant (NKS-R SC-AIM)</i>	Teemu Reiman (Lilikoi Consulting)
	<i>Advances, uncertainties and pitfalls in measurement for decommissioning waste classification – on the background of the NKS-B RADWORKSHOP</i>	Jixin Qiao (DTU)
	<i>Improved methods to enhance the understanding of radiation induced degradation of reactor pressure vessels (NKS-R BREDARPV)</i>	Ulla Ehrnsten (VTT)
11:50 – 13:00	Lunch	
Session IV: NORM, waste management and risks to the environment (Chair: Gísli Jónsson, GR)		
13:00 – 13:40	Key speaker No. 5: <i>Radiation protection of the environment: – some thoughts and perspectives</i>	Justin Brown (NRPA)
13:40 – 14:40	<i>Characterisation of industrial NORM waste including uncertainties (NKS-B CONCORE)</i>	Per Roos (DTU)
	<i>Risks from naturally occurring radionuclides in the Nordic diet (NKS-B NANOD)</i>	Mari Komperød (NRPA)
	<i>Now we know why there are so few microcosm studies in radioecology (NKS-B NORCO II)</i>	Tanya H. Hevrøy (NRPA)
14:40 – 15:20	Summary and conclusions Discussion	Astrid Liland (NRPA) Mikael Meister (VAB) Nici Bergroth (Fortum) The NKS R & B PC's Pelle Zettersten (Moderator/SSM)
15:20 – 15:30	Closing remarks	Sigurður Magnússon (GR/NKS Chair)
End of seminar at 15:30 (Coffee or tea)		