**Nordic perspectives of Fukushima: Where are we now and where do we go?**

**Joint NKS-R and NKS-B Seminar, Stockholm, 12-13 January 2016**

**Draft Program for 12/1-2016:**

12:00 – 13:00 Registration

## 13:00 – 13:45 Opening Session (Chair: Sigurður M. Magnússon, IRSA/NKS)

Welcome: *Anders Wik* (Vattenfall), *Mats Persson* (SSM) and *Sigurður M. Magnússon* (IRSA/NKS)

Invited no. 1: *Lyn Bevington* (IAEA) on the IAEA Fukushima report and its implications for nuclear safety and emergency preparedness

Questions to Invited no. 1

## 13:45 – 14:45 Session I: Risk and preparedness (Chair: Tarja Ikäheimonen, STUK)

*Florian Gering* (BfS) – Updated emergency planning zones in Germany and the importance of release source term

*Andrew Wallin Caldwell* (Lloyd's Register Consulting) on the NKS-R activity L3PSA (Addressing off-site consequence criteria using Level 3 PSA)

*Mark Dowdall* (NRPA) on the NKS-B NORCON activity (Nordic Nuclear Accident Consequence Analysis)

 Questions and discussion on Session I

14:45 – 15:15 Coffee

## 15:15 – 16:15 Session II: Which is our tsunami? (Chair: Patrick Isaksson, SSM)

*Juhani Hyvärinen* (LUT) on Nordic ”tsunamis” and defense-in-depth strengths and deficiencies

*Jan-Erik Holmberg* (Riskpilot) on the NKS-R activity MODIG (Modelling of digital I&C)

*Ludovic Fülöp* (VTT) on the NKS-R activity ADdGROUND (Modelling as a tool to augment ground motion data in regions of diffuse seismicity)

 Questions and discussion on Session II

## 16:15 – 17:00 Session III: Hope for the best and prepare for the worst (Chair: Inger Margrethe Eikelmann, NRPA)

*Jens Havskov Sørensen* (DMI) on the NKS-B FAUNA activity (uncertainty of atmospheric dispersion modelling for emergency preparedness)

*Eldri Holo* (NRPA) on coherent cross-border cooperation in preparedness for large nuclear accidents, including the common Nordic flag book on protective measures and the HERCA-WENRA approach for coherent emergency response

 Questions and discussion on Session III

17:00 – 17:10 *Karin Andgren* (Vattenfall/NKS) and *Kasper Andersson* (DTU/NKS): Status and beyond from the NKS R and B programme

17:10 – 17:15 Summary and closure of day 1 (*Sigurður M. Magnússon* (IRSA/NKS))

17:20 – 19:45 Seminar reception with ‘mingling’ snacks

**Draft Program for 13/1-2016:**

08:30 – 08:35 Intro to day 2 events (Sigurður M. Magnússon (IRSA/NKS))

## 08:35 – 09:50 SESSION IV: Nordic NPP safety progress after Fukushima (Chair: Jorma Aurela, MEE)

Invited no. 2: *Tomi Routamo* (STUK) on Nordic reactor safety related progress (30 min.)

*Ove Nilsson* (FKA) on FOSH – Forsmark Safety Enhancement Project, Post-Fukushima actions at Forsmark NPP

*Pavel Kudinov* (KTH) on the NKS-R DECOSE activity (debris coolability and steam explosion)

Questions and discussion on Session IV

09:50 – 10:20 Coffee

## 10:20 – 11:50 Session V: Measuring the right things (Chair: Gísli Jónsson, IRSA)

Invited no. 3: *Chris Clement* (ICRP) on reflections of the ICRP since the Fukushima accident on measurement requirements for different time phases (30 min.)

*Mark Dowdall* (NRPA)on the NKS-B MOBELRAD and GAMFAC activities (field exercises in Belarus)

*Jixin Qiao* (DTU) on the NKS-B RAPID-TECH activity (Application of rapid and automated techniques in radiochemical analysis)

*Magnus Gårdestig* (Linköping U.) on the NKS-B activity SEMUNARS (use of unmanned airborne radiometric systems)

 Questions and discussion on Session V

11:50 – 12:50 Lunch

## 12:50 – 13:35 **Session VI: Learning by accident (Chair: Anne Edland, SSM)**

*Teemu Reiman* (Fennovoima) on evolution of safety culture thinking TMI – Chernobyl - Fukushima

*Rosella Bisio* (IFE) on the NKS-R activity LESUN (Learning from Successes in Nuclear Power Plant Operation to Enhance Organisational Resilience)

 Questions and discussion on Session VI

## 13:35 – 14:50 Session VII: Deal with it (Chair: Kresten Breddam, NIRP/SIS)

Invited no. 4: *Ted Lazo* (OECD-NEA) on NEA’s learning points from Fukushima in relation to accident management, with focus on the long term (30 min.)

14:05 – 14:35 Coffee

## 14:35 – 15:20 Deal with it (continued)

*Steen Hoe* (DEMA) on update on elements and methodologies used in the Nordic countries in optimised decision support for the longer term

*Anneli Hällgren* (SSM) on public communication – what we did during the Fukushima accident and what we have learnt since

Questions and discussion on Session VII

## 15:20 – 15:55 Concluding session (Chair: Ole Harbitz, NRPA)

*Synnöve Sundell Bergman* on the IAEA Fukushima report in a Nordic context

*Petra Lundström* (FORTUM) (R) and *Leif Moberg* (B): Summary (incl. future needs) from 2 rapporteurs

15:55 – 16:00 The end (*Sigurður M. Magnússon* (IRSA/NKS))