

# NKS Seminar 2019

Status update June 2018

# NKS Seminar Program Committee

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- Astrid Liland (NRPA)
- Karin Andgren (Vattenfall)
- Tuuli Pyy (Fortum)
- Gísli Jónsson (GR Iceland)
- Kasper Andersson (NKS-B)
- Christian Linde (NKS-R)
- Finn Physant (NKS)

# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

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## **Reservation is made for Finlandshuset on 15-16 January 2019**

- Start at 13:00 on Tuesday 15 January
- End at 15:30 on Wednesday 16 January
- ”Sibeliussalen” (80-120 participants)
  
- Afternoon coffee (day 1)
- Poster session + finger food (end of day 1)
- Lunch + morning/afternoon coffee (day 2)

# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

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## Draft program (revised 180621)

Four theme sessions (15 min presentations + 5 min discussion)  
ongoing and recent NKS R- and B-activities :

- I. Uncertainties in estimating NPP risk processes  
(SITRON, SPARC, FIREBAN, RASTEP)
  - II. Uncertainties in estimating accident risks to the population  
(EPHSOGAM, AVESOME, AUTOMORC, MESO)
  - III. Risks and uncertainties in decommissioning and long-term operation  
(NORDEC, SC\_AIM, RADWORKSHOP, BREDA)
  - IV. NORM, waste management and risks to the environment  
(CONCORE, NANOD, NORCO)
    - Risks in protection of the environment (Debbie Oughton, UMB)
- Posters and mingling/reception – end of Day 1

# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

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## Draft program (revised 180621)

Key speakers (30-45 min):

- 1) **Claire Cousins** (Chair of ICRP) – opening lecture on some areas of ICRP, ethics, risks, uncertainties and emergency preparedness
- 2) **Britt-Marie Drottz-Sjöberg** (NTNU) - talk on Interaction with society and associated risks and uncertainties
- 3) **Anneli Hällgren** (SSM) at the beginning of the second day for a presentation on “Securing competence”
- 4) **Kristina Gillin** (LRC) to be confirmed - Introduction lecture on risks during decommissioning
- 5) **Deborah Oughton** (UMB), on radiation protection of the environment in a Nordic perspective

# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

Day 1: 13:00 – 13:10 Welcome (Sigurdur, others)

13:10 – 14:00 Key speaker No. 1: **Claire Cousins**, Chair of ICRP, talk on ICRP, ethics, risks, uncertainties and emergency preparedness (incl. discussion time)

14:00 – 14:20 NKS PC presentations

14:20 – 15:40 **Advances and uncertainties in estimating NPP risk processes:**

- NKS-R SITRON presenter on uncertainty in site level risk estimation (Jan-Erik Holmberg, RiskPilot Finland or Salvatore Massaiu, IFE)

- NKS-R SPARC presenter on uncertainty in risk estimation of containment failure and release characteristics (Weimin Ma, KTH or Anna Nieminen, VTT)

- NKS R FIREBAN speaker on “Determination of fire barriers' reliability for fire risk assessment in nuclear power plants” (Patrick van Hees, Lund University)

- NKS-R RASTEP presenter on NPP processes and source term prediction uncertainties (Joakim Klug or Francesco Di Dedda, LRC)

- Discussion

15:40 – 16:10 Coffee

# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

Day 1: 16:10 – 16:50 Key speaker No. 2: **Britt-Marie Drottz-Sjöberg**, talk on Interaction with society and associated risks and uncertainties

16:50 – 18:10 **Advances and uncertainties in estimating accident risks to the population:**

- NKS-B EPHSOGAM presenter on uncertainty in predicting source term on the background of measurements (Mark Dowdall, NRPA)
- NKS-B AVESOME speaker on uncertainties in predicting plume radionuclide concentrations (Jens Havskov Sørensen, DMI)
- NKS-B AUTOMORC speaker on uncertainty in measurements for long term risk management (Robert Finck or Christopher Rääf, Lund U.)
- NKS-B MESO speaker on uncertainties in risk estimation in decision support systems (Steen Hoe, DEMAs or Jonas Lindgren, SSM)
- Discussion

18:10 – 18:15 Practical info about posters and reception

18:15 – 20:00 Posters and mingling/reception

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08:30 – 09:00 Key speaker No 3: **Anneli Hällgren** (SSM) on securing competence

Day 2:

09:00 – 09:40 Key speaker No. 4: **Kristina Gillin** (LRC) to be confirmed Introduction lecture on risks during decommissioning

09:40 – 10:20 **Risks and uncertainties in decommissioning and long-term operation (I)**

- NKS-R NORDEC speaker on “Challenges and opportunities for improving Nordic nuclear decommissioning” (István Szöke, IFE)
- ?? Speaker: on-going and planned decommissioning activities in the Nordic countries (requested by OH)
- Discussion

10:20 – 10:50 Coffee

10:50 – 11:50 **Risks and uncertainties in decommissioning and long-term operation (II)**

- NKS-R SC-AIM speaker on “safety culture during decommissioning” (Teemu Reiman, VTT)
- NKS-B RADWORKSHOP speaker on uncertainties and pitfalls in measurements for decommissioning waste classification (Jixin Qiao, DTU)
- NKS-R BREDA speaker on “Studies on irradiated material from the reactor pressure vessel at Barsebäck” (Pål Efsing, KTH)
- Discussion



# “Nordic nuclear and radiation risk estimation - Advances and uncertainties” (working title)

Day 2: 11:50 – 1300 Lunch

13:00 – 13:40 Key speaker No. 5: **Deborah Oughton** (UMB), on radiation protection of the environment in a Nordic perspective (Debbie Oughton, UMB)

13:40 – 14:40 **NORM, waste management and risks to the environment**

- NKS-B CONCORE presenter on characterisation of industrial NORM waste including uncertainties (Charlotte Nielsen, SIS, Kresten Breddam, SIS or Per Roos, DTU)

- NKS-B NANOD presenter on risks from naturally occurring radionuclides in diet (Mari Komperød, NRPA)

- NKS-B NORCO II presenter on conclusions and uncertainties of microcosm studies of risk (Tanya Hevrøy, NRPA or Clare Bradshaw, Stockh. U.)

- Discussion

14:40 – 15:10 Summary and conclusion (Astrid and Karin)

15:10 – 15:30 Thanks/Closing (SMM)

End of seminar at 15:30

(Coffee)