

PROGRAM

NSFS Conference 2015 24 – 27 August Roskilde, Denmark

Venue	Comwell Roskilde Vestre Kirkevej 12, 4000 Roskilde
Theme	Radiation Protection Personnel – Patient – Public

Program highlights

Sunday 23 August, 19:00	Welcome reception at the Viking Ship Museum Vindeboder 12, 4000 Roskilde Registration
Monday 24 August, 8:00	Registration
Monday 24 August, 9:30	Opening of conference
Monday 24 August, 16:00	NSFS General Assembly
Tuesday 25 August, 19:00	Conference dinner
Wednesday 26 August, 15:30	Visit to Roskilde Cathedral and the old city of Roskilde
Thursday 27 August, 12:00	End of conference

MONDAY, 24 August

Session 1: Opening and Bo Lindell Award

9:30 - 11:00 Chair: Ole Harbitz, Norway

- S1-O1** **Bo Lindell Lecture:**
Nordic co-operation in an international context
Sigurður M. Magnússon, Icelandic Radiation Safety Authority
- S1-O2** **The Bo Lindell book translation project**
Jack Valentin, Former ICRP Secretary

11:00 - 11:30 Coffee and Posters

Session 2: International Perspectives

11:30 - 12:30 Chair: Ole Harbitz, Norway

- S2-O1** **INVITED: New developments and growing international cooperation in the field of emergency preparedness and response**
Patrick Majerus, Ministry of Health, Department of Radiation Protection, Luxembourg

12:30 - 13:45 Lunch

Session 3: Nordic Perspectives

13:45 - 15:45 Chair: Kasper Andersson, Denmark

- S3-O1** **INVITED: ESS status - focusing on the perspectives for international research, and the challenges related to radiation protection for the staff, the public and the environment**
Peter Jacobsson, European Spallation Source ESS AB, Environment, Safety & Health (ESH) Division
- S3-O2** **Current and emerging challenges for Nordic nuclear safety: cooperation through the NKS-R programme**
Karin Andgren, NKS

Short presentations by exhibitors

Canberra

Doseco

Gammadata

Imec

Landauer

MetorX

NKS

NRG

RadPro

15:45 - 16:00 Coffee and Posters

16:00 NSFS General assembly

TUESDAY, 25 August

Session 4: Emergency, Preparedness and Response 1

8:30 - 10:30 Chair: Marie Solberg, Norway

- S4-01** **Current and emerging challenges for Nordic nuclear/radiological emergency preparedness: cooperation through the NKS-B programme**
Kasper Andersson, NKS / DTU
- S4-02** **Societal dimensions in post-accident recovery – return of experience from Fukushima and Chernobyl experience**
Inger Margrethe Eikermann, Norwegian Radiation Protection Authority
- S4-03** **Uncertainties of Atmospheric Dispersion Calculations for Emergency Preparedness**
Jens Havskov Sørensen, Danish Meteorological Institute (DMI)
- S4-04** **Uncertainty in predictions of the ambient dose equivalent rates for 30 years following the Fukushima Daiichi nuclear power plant accident**
Sakae Kinase, Japan Atomic Energy Agency
- S4-05** **Dispersion model based dose-rate measurement simulation for exercises**
Tuomas Peltonen, Radiation and Nuclear Safety Authority (STUK)
- S4-06** **DEMAs experiences with unmanned aerial vehicles for radiological measurements**
Carsten Israelson, Danish Emergency Management Agency (DEMA)

10:30 - 11:00 Coffee and Posters

Session 5: Emergency, Preparedness and Response 2

11:00 - 12:30 Chair: Marie Solberg, Norway

- S5-01** **Measurement requirements to maximise recovery phase dose reduction in large contaminated land areas**
Kasper Andersson, DTU
- S5-02** **An accidental exposure to I-131**
Wendla Paile, Radiation and Nuclear Safety Authority (STUK)
- S5-03** **Scenario Based Nuclear and Radiological Emergency Preparedness in a Non-Nuclear Country (Norway)**
Øyvind Gjølme Selnæs, Norwegian Radiation Protection Authority
- S5-04** **Online courses in radiation protection**
Mattias Jönsson, Lund University

Posters: Emergency, Preparedness and Response

- S5-P1** **Elemental Composition and Structure of Commercial Available Personal Radiation Shielding Protective Clothing**
Radek Cerny, National Institute for Nuclear, Chemical and Biological Protection
- S5-P2** **Probabilistic Off-site Consequences Analysis – development of a guiding document**
Karin Fritioff, Vattenfall AB
- S5-P3** **Characterization of HPGe detectors using Computed Tomography**
Angelica Hedman, FOI
- S5-P4** **Impact of atmosphere on the transport of Ruthenium in the primary circuit of nuclear power plant**
Ivan Kajan, Chalmers University of Technology

12:30 - 13:30 Lunch

Session 6: Radioecology

13:30 - 15:30 Chair: Sven P. Nielsen, Denmark

- S6-O1** **Radiochemical analysis of important radionuclides in Nordic nuclear industry**
Xiaolin Hou, Technical University of Denmark, Center for Nuclear Technologies
- S6-O2** **Multivariate analysis of release data and environmental monitoring data from Swedish nuclear facilities**
Charlotte Lager, Swedish Radiation Safety Authority
- S6-O3** **Application of Rapid and Automated Techniques in Radiochemical Analysis - Inspirations from NKS-B Rapid-Tech Project**
Jixin Qiao, DTU Nutech
- S6-O4** **Canopy interception and accumulation of Fukushima Dai-ichi derived radiocaesium by forest trees.**
Stefan Bengtsson, Institute of Environmental Radioactivity, Fukushima University
- S6-O5** **Concentrations and inventories of Cs-137 in dated sediments sampled in the Swedish Marine Environmental Monitoring Program**
Mats Eriksson, Swedish Radiation Safety Authority

S6-O6 Effects of dynamic behaviour of Nordic marine environment to radioecological assessments (the EFMARE project)

Mikhail Iosjpe, Norwegian Radiation Protection Authority

S6-O7 Really long term radiological assessment of ecosystems

Ulrik Kautsky, SKB

Posters: Radioecology

S6-P1 Radioactivity in fertilizers

Tuukka Turtiainen, Radiation and Nuclear Safety Authority (STUK)

15:30 - 16:00 Coffee and Posters

Session 7: Technologies and Safety

16:00 - 17:30 Chair: Karin Andgren, Sweden

S7-O1 Uranium Aerosol Characteristics at a Nuclear Fuel Manufacturing Site - The regulators perspective

Nils Addo, Swedish Radiation Safety Authority

S7-O2 Uranium Aerosol Characteristics at a Nuclear Fuel Manufacturing Site - Particle Size, Morphology and Chemical Composition

Edvin Hansson, Linköping University, Westinghouse Electric Sweden AB

S7-O3 Performance of a new NIRP TL-dosemeter. Uncertainty and detection limit estimation

Henrik Roed, National Institute of Radiation Protection

S7-O4 The start of the decommissioning of the inner parts of the DR3 reactor

Jens Søggaard-Hansen, Danish Decommissioning

S7-O5 Radioactive Waste Management in Denmark

Heidi Sjølin Thomsen, Dansk Dekommissionering

Posters: Technologies and Safety

S7-P1 Establishing a method for a more accessible and reliable verification of medical radiation shielding

Ibtisam Yusuf, Department of Radiation Physics and Department of Medicine and Health Sciences, Linköping University, Linköping, Sweden

19:00 Conference dinner

WEDNESDAY, 26 August

Session 8: Medical Applications 1

8:30 - 10:30 Chair: Ritva Bly, Finland

- S8-01** **INVITED: Developments and justification of applications using ionizing radiation in the medical field**
Steve Ebdon-Jackson, Public Health England, Medical Exposure Regulatory Infrastructure Team
- S8-02** **Radiation safety aspects of the Danish Center for Proton Therapy**
Lars Hjorth Praestegaard, Department of Medical Physics, Aarhus University Hospital
- S8-03** **New Danish research laboratory for medical dosimetry**
Claus E. Andersen, Technical University of Denmark
- S8-04** **The National System for the Introduction of New Health Technologies within the Specialist Health Service**
Eva Godske Friberg, Norwegian Radiation Protection Authority

10:30 - 11:00 Coffee and Posters

Session 9: Medical Applications 2

11:00 - 12:30 Chair: Eva Godske Friberg, Norway

- S9-01** **Computed paediatric tomography exposure and radiation-induced cancers: Results from a national cohort study in France**
Marie-Odile Bernier, IRSN
- S9-02** **Pediatric protocols and dose reduction devices in CT scanners where few examinations are performed**
Jonina Gudjonsdottir, Icelandic Radiation Safety Authority
- S9-03** **Population doses from x-ray and nuclear medicine procedures in Nordic countries**
Ritva Bly, Radiation and Nuclear Safety Authority (STUK)
- S9-04** **Sunbeds and sunburns in Iceland**
Þorgeir Sigurðsson, Icelandic Radiation Safety Authority

12:30 - 13:45 Lunch

Session 10: Medical Applications 3

13:45 - 15:15 Chair: Søren Holm, Denmark

- S10-O1** **The importance of implementing radiation protection in the national eHealth-strategy**
Eva Godske Friberg, Norwegian Radiation Protection Authority
- S10-O2** **Clinical audits for breast cancer radiotherapy in Norway**
Ingrid Espe Heikkilä, Norwegian Radiation Protection Authority
- S10-O3** **Inspection of Cardiology departments in Norway: Are they making it great in radiation protection?**
Reidun D. Silkoset, Norwegian Radiation Protection Authority
- S10-O4** **Measurement of eye lens radiation doses to staff during percutaneous coronary interventional procedures**
Ibtisam Yusuf, Department of Radiation Physics and Department of Medicine and Health Sciences, Linköping University, Linköping, Sweden

Posters: Medical Applications

- S10-P1** **Frequency of Medical X-ray Examinations in Iceland in 2013**
Nelly Petursdottir, Icelandic Radiation Safety Authority
- S10-P2** **Ra-223 planar whole body scan and SPECT of surgically removed bone**
Robin de Nijs, Rigshospitalet, Nuclear Medicine and PET
- S10-P3** **Whole body counting of radium-223 for monitoring of staff in radionuclide therapy.**
Søren Holm, Rigshospitalet, Nuclear Medicine and PET
- S10-P4** **Developments in first choice from conventional X-rays to CT for selected studies**
Britta Højgaard, National Institute of Radiation Protection

15:30

Visit to Roskilde Cathedral and old city of Roskilde

THURSDAY, 27 August

Session 11: Policy, Regulations and Inspections

8:30 - 10:15 Chair: Gísli Jónsson, Iceland

- S11-O1 Swedish Radiation Safety Authority: Systematic monitoring and evaluation of work practices an important aspect of improving radiation safety for patients.**
Camilla Larsson, Swedish Radiation Safety Authority
- S11-O2 Inspections of x-ray equipment at Danish public hospitals**
Peter Kaidin Frederiksen, National Institute of Radiation Protection
- S11-O3 Electronic inspection of industrial radiography companies in Norway**
Bjørn Helge Knutsen, Norwegian Radiation Protection Authority
- S11-O4 Inspections in non-medical use of radiation in Finland in 2010-2014**
Siiri-Maria Aallos-Ståhl, Radiation and Nuclear Safety Authority (STUK)
- S11-O5 New procedures for disposal of ionisation chamber smoke detectors**
Jannie Kalør Svendsen, National Institute of Radiation Protection

Posters: Policy, Regulations and Inspections

- S11-P1 Regulatory Authority Records from the 2014-2015 Blood Irradiator Inspection Campaign**
Charlotte Nielsen, National Institute of Radiation Protection
- S11-P2 Norway has phased out gamma based blood irradiators**
Øivind Syversen, Norwegian Radiation Protection Authority
- S11-P3 Results from an All-inclusive IAEA-based Inspection Approach for Industrial Irradiation Facilities**
Charlotte Nielsen, National Institute of Radiation Protection
- S11-P4 NORGIR**
Þorgeir Sigurðsson, Icelandic Radiation Safety Authority
- S11-P5 Survey on needs for changes in the Finnish radiation legislation and on regulatory oversight – The perspectives of practitioners**
Ritva Bly, Radiation and Nuclear Safety Authority (STUK)
- S11-P6 Nordic Working Group on Medical Applications**
Hanne N Waltenburg, National Institute of Radiation Protection

10:15 - 10:45 Coffee and Posters

Session 12: Natural Radioactivity

10:45 - 11:45 Chair: Carsten Israelson, Denmark

- S12-O1 Indoor and outdoor radon levels in Iceland**
Gísli Jónsson, Icelandic Radiation Safety Authority
- S12-O2 NORM in Norwegian Mineral Industry**
Paula Nunez, Institute for Energy Technology
- S12-O3 TENORM in geothermal applications in Iceland**
Porgeir Sigurðsson, Icelandic Radiation Safety Authority

Posters: Natural Radioactivity

- S12-P1 NKS: Developing Methods for Reliable and Efficient Radiological Characterization of NORM Contaminated Objects**
Charlotte Nielsen, National Institute of Radiation Protection
- S12-P2 The Swedish Radiation Safety Authority's Radioanalytical Laboratory: who are we and what do we do?**
Mats Eriksson, Swedish Radiation Safety Authority
- S12-P3 Gross alpha and beta radioactivity levels measurement in mining ponds in Jos Metropolis-Plateau State, Nigeria**
Daniel Jwanbot, University of Jos

Closing Session

11:45 - 12:00 Chair: Mette Øhlenschläger, Denmark

12:00 Lunch

Program Overview

	Sunday, 23 August	Monday, 24 August	Tuesday, 25 August	Wednesday, 26 August	Thursday, 27 August
08:00		Registration			
08:30		Coffee			
09:00		Session 1 * Opening and Bo Lindell award	Session 4 Emergency , Preparedness and Response 1	Session 8 * Medical Applications 1	Session 11 Policy, Regulations and Inspections
09:30			Coffee and posters	Coffee and posters	Coffee and posters
10:00			Session 5 Emergency , Preparedness and Response 2	Session 9 Medical Applications 2	Session 12 Natural Radioactivity
10:30		Coffee and posters			
11:00		Session 2 * International Perspectives	Lunch		Closing Session Lunch
11:30					
12:00		Lunch			
12:30					
13:00					
13:30		Session 3 * Nordic Perspectives	Session 6 Radioecology	Session 10 Medical Applications 3	
14:00					
14:30		Exhibitor presentations			
15:00		Coffee and posters	Coffee and posters		
15:30		NSFS General Assembly	Session 7 Technologies and Safety	Visit to Roskilde Cathedral and city of Roskilde	
16:00					
16:30					
17:00					
17:30					
18:00					
18:30					
19:00	>Welcome reception at the Wiking Ship Museum Registration		Conference Dinner		

* Sessions marked with an asterisk contain invited lectures