

Conference 2015

Proceedings

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Scientific program

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Individual contributions

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Opening and Bo Lindell Award

S1-01

Bo Lindell Lecture: Nordic co-operation in an international context

Sigurður M. Magnússon, Icelandic Radiation Safety Authority

[S1-01 – Bo Lindell Lecture 2015 – Magnússon](#)

The Bo Lindell book translation project

Jack Valentin, Former ICRP Secretary

[S1-02 – Valentin](#)

International Perspectives

S2-01

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

[S2-01 – Majerus](#)

Nordic Perspectives

S3-01

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

[S3-01 – Jacobsson](#)

S3-02

Current and emerging challenges for Nordic nuclear safety: cooperation through the NKS-R programme

Karin Andgren, NKS

[S3-02 – Andgren](#)

Emergency, Preparedness and Response

S4-01

Current and emerging challenges for Nordic nuclear/radiological emergency preparedness: cooperation through the NKS-B programme

Kasper Andersson, NKS / DTU

[S4-01 – Andersson](#)

S4-02

Societal dimensions in post-accident recovery – return of

experience from Fukushima and Chernobyl experience
Inger Margrethe Eikermann, Norwegian Radiation Protection Authority

[S4-02 – Eikermann](#)

S4-03

Uncertainties of Atmospheric Dispersion Calculations for
Emergency Preparedness

Jens Havskov Sørensen, Danish Meteorological Institute (DMI)

[S4-03 – Sørensen](#)

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

[S4-04 – Kinase](#)

S4-05

Dispersion model based dose-rate measurement simulation for exercises

Tuomas Peltonen, Radiation and Nuclear Safety Authority (STUK)

[S4-05 – Peltonen](#)

S4-06

DEMAs experiences with unmanned aerial vehicles for radiological measurements

Carsten Israelson, Danish Emergency Management Agency (DEMA)

[S4-06 – Israelson](#)

S5-01

Measurement requirements to maximise recovery phase dose reduction in large contaminated land areas

Kasper Andersson, DTU

[S5-01 – Andersson](#)

S5-02

An accidental exposure to I-131

Wendla Paile, Radiation and Nuclear Safety Authority (STUK)

[S5-02 – Paile](#)

S5-03

Scenario Based Nuclear and Radiological Emergency Preparedness in a Non-Nuclear Country (Norway)

Øyvind Gjølme Selnæs, Norwegian Radiation Protection Authority

[S5-03 – Selnæs](#)

S5-04

Online courses in radiation protection

Mattias Jönsson, Lund University

[S5-04 – Jönsson](#)

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-P1 – Cerny](#)

S5-P2

Probabilistic Off-site Consequences Analysis – development of a guiding document

Karin Fritioff, Vattenfall AB

[S5-P2 – Fritioff](#)

S5-P3

Characterization of HPGe detectors using Computed Tomography

Angelica Hedman, FOI

Not available

S5-P4

Impact of atmosphere on the transport of Ruthenium in the primary circuit of nuclear power plant

Ivan Kajan, Chalmers University of Technology

Not available

Radioecology

S6-01

Radiochemical analysis of important radionuclides in Nordic nuclear industry

Xiaolin Hou, Technical University of Denmark, Center for Nuclear Technologies

[S6-01 – Hou](#)

S6-02

Multivariate analysis of release data and environmental monitoring data from Swedish nuclear facilities

Charlotte Lager, Swedish Radiation Safety Authority

[S6-02 – Lager](#)

S6-03

Application of Rapid and Automated Techniques in Radiochemical Analysis – Inspirations from NKS-B Rapid-Tech Project

Jixin Qiao, DTU Nutech

[S6-03 – Qiao](#)

S6-04

Canopy interception and accumulation of Fukushima Dai-ichi derived radiocaesium by forest trees.

Stefan Bengtsson, Institute of Environmental Radioactivity, Fukushima University

[S6-04 – Bengtsson](#)

S6-05

Concentrations and inventories of Cs-137 in dated sediments sampled in the Swedish Marine Environmental Monitoring Program

Mats Eriksson, Swedish Radiation Safety Authority

[S6-05 – Eriksson](#)

S6-06

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

Mikhail Iosjpe, Norwegian Radiation Protection Authority
[S6-06 – Iosjpe](#)

S6-07

Really long term radiological assessment of ecosystems
Ulrik Kautsky, SKB
[S6-07 – Kautsky](#)

S6-P1

Radioactivity in fertilizers
Tuukka Turtiainen, Radiation and Nuclear Safety Authority (STUK)
[S6-P1 – Turtiainen](#)

Technologies and Safety

S7-01

Uranium Aerosol Characteristics at a Nuclear Fuel Manufacturing Site – The regulators perspective
Nils Addo, Swedish Radiation Safety Authority
[S7-01 – Addo](#)

S7-02

Uranium Aerosol Characteristics at a Nuclear Fuel Manufacturing Site – Particle Size, Morphology and Chemical Composition
Edvin Hansson, Linköping University, Westinghouse Electric Sweden AB
[S7-02 – Hansson](#)

S7-03

Performance of a new NIRP TL-dosemeter. Uncertainty and detection limit estimation
Henrik Roed, National Institute of Radiation Protection
[S7-03 – Roed](#)

S7-04

The start of the decommissioning of the inner parts of the DR3 reactor

Jens Søgaard-Hansen, Danish Decommissioning
[S7-04 – Søgaard-Hansen](#)

S7-05

Radioactive Waste Management in Denmark
Heidi Sjølin Thomsen, Dansk Dekommissionering
[S7-05 – Thomsen](#)

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
Not available

Medical Applications

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
[S8-01 – Ebdon-Jackson](#)

S8-02

Radiation safety aspects of the Danish Center for Proton Therapy
Lars Hjorth Praestegaard, Department of Medical Physics, Aarhus University Hospital
[S8-02 – Preaestegaard](#)

S8-03

New Danish research laboratory for medical dosimetry
Claus E. Andersen, Technical University of Denmark
[S8-03 – Andersen](#)

S8-04

The National System for the Introduction of New Health

Technologies within the Specialist Health Service
Eva Godske Friberg, Norwegian Radiation Protection Authority
[S8-04 – Friberg](#)

S9-01

Computed paediatric tomography exposure and radiation-induced cancers: Results from a national cohort study in France
Marie-Odile Bernier, IRSN
[S9-01 Bernier](#)

S9-02

Pediatric protocols and dose reduction devices in CT scanners where few examinations are performed
Jonina Gudjonsdottir, Icelandic Radiation Safety Authority
Not available

S9-03

Population doses from x-ray and nuclear medicine procedures in Nordic countries
Ritva Bly, Radiation and Nuclear Safety Authority (STUK)
[S9-03 – Bly](#)

S9-04

Sunbeds and sunburns in Iceland
Þorgeir Sigurðsson, Icelandic Radiation Safety Authority
[S9-04 – Sigurðsson](#)

S10-01

The importance of implementing radiation protection in the national eHealth-strategy
Eva Godske Friberg, Norwegian Radiation Protection Authority
[S10-01 – Friberg](#)

S10-02

Clinical audits for breast cancer radiotherapy in Norway
Ingrid Espe Heikkilä, Norwegian Radiation Protection Authority

[S10-02 – Heikkila](#)

S10-03

Inspection of Cardiology departments in Norway: Are they making it great in radiation protection?

Reidun D. Silkoset, Norwegian Radiation Protection Authority

[S10-03 – Silkoset](#)

S10-04

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

[S10-04 – Yusuf](#)

S10-P1

Frequency of Medical X-ray Examinations in Iceland in 2013

Nelly Petursdottir, Icelandic Radiation Safety Authority

[S10-P1 – Petursdottir](#)

S10-P2

Ra-223 planar whole body scan and SPECT of surgically removed bone

Robin de Nijs, Rigshospitalet, Nuclear Medicine and PET

[S10-P2 – de Nijs](#)

S10-P3

Whole body counting of radium-223 for monitoring of staff in radionuclide therapy.

Søren Holm, Rigshospitalet, Nuclear Medicine and PET

[S10-P3 – Holm](#)

S10-P4

Developments in first choice from conventional X-rays to CT for selected studies

Britta Højgaard, National Institute of Radiation Protection

[S10-P4 – Højgaard](#)

Policy, Regulations and Inspections

S11-01

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

[S11-01 – Larsson](#)

S11-02

Inspections of x-ray equipment at Danish public hospitals
Peter Kaidin Frederiksen, National Institute of Radiation Protection

[S11-02 – Frederiksen](#)

S11-03

Electronic inspection of industrial radiography companies in Norway

Bjørn Helge Knutsen, Norwegian Radiation Protection Authority

[S11-03 – Knutsen](#)

S11-04

Inspections in non-medical use of radiation in Finland in 2010-2014

Siiri-Maria Aallos-Ståhl, Radiation and Nuclear Safety Authority (STUK)

[S11-04 – Aallos-Ståhl](#)

S11-05

New procedures for disposal of ionisation chamber smoke detectors

Jannie Kalør Svendsen, National Institute of Radiation Protection

[S11-05 – Svendsen](#)

S11-P1

Regulatory Authority Records from the 2014-2015 Blood Irradiator Inspection Campaign

Charlotte Nielsen, National Institute of Radiation Protection
Not available

S11-P2

Norway has phased out gamma based blood irradiators
Øivind Syversen, Norwegian Radiation Protection Authority
Not available

S11-P3

Results from an All-inclusive IAEA-based Inspection Approach for Industrial Irradiation Facilities
Charlotte Nielsen, National Institute of Radiation Protection
Not available

S11-P4

NORGIR
Þorgeir Sigurðsson, Icelandic Radiation Safety Authority
[S11-P4 – Sigurdsson](#)

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-P5 – Bly](#)

S11-P6

Nordic Working Group on Medical Applications
Hanne N Waltenburg, National Institute of Radiation Protection
[S11-P6 – Waltenburg](#)

S11-P7

Focused inspections in IR – Tool for improvement of occupational radiation protection in industrial radiography (IR) – IAEA/ISEMIR IR Road Map
Uffe Torpenholt Jørgensen, Danish Health and Medicines Authority

Natural Radioactivity

S12-01

Indoor and outdoor radon levels in Iceland

Gísli Jónsson, Icelandic Radiation Safety Authority

[S12-01 – Jónsson](#)

S12-02

NORM in Norwegian Mineral Industry

Paula Nunez, Institute for Energy Technology

[S12-02 – Nunez](#)

S12-03

TENORM in geothermal applications in Iceland

Porgeir Sigurðsson, Icelandic Radiation Safety Authority

[S12-03 – Sigurðsson](#)

S12-P1

NKS: Developing Methods for Reliable and Efficient Radiological Characterization of NORM Contaminated Objects
Charlotte Nielsen, National Institute of Radiation Protection

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S12-P2

The Swedish Radiation Safety Authority's Radioanalytical Laboratory: who are we and what do we do?

Mats Eriksson, Swedish Radiation Safety Authority

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S12-P3

Gross alpha and beta radioactivity levels measurement in mining ponds in Jos Metropolis-Plateau State, Nigeria

Daniel Jwanbot, University of Jos

[S12-P3 – Jwanbot](#)