



DigiDECOM2023

REGISTRATION 23 October from 18:00 to 20:00, Helsinki Congress Paasitorni



DAY 1 - Tuesday (24 October)

REGISTRATION from 8:00 to 9:00am

Helsinki Congress Paasitorni

9:00am Welcome / Practicalities

9:10am Opening speech - Harri Varjonen, Executive Director, FinNuclear Association

Session 1 starts at 9:30am

Plenary presentations on

- International needs & trends
- Innovations with high expected impact
- Synergies across industries
- Important international initiatives

Chairs: Chairperson1 and Chairperson2

9:30am IAEA Plenary presentation

9:55am EPRI Plenary presentation

10:20am OECD NEA Plenary presentation

10:45am - 11:15am Coffee Break

11:15am Norwegian Nuclear Research Centre Plenary presentation

11:40am History of Decommissioning research at IFE

12:05pm -1:30pm Lunch break

Roadshow for DigiDECOM Sponsors (1:30pm)

Opening speech by Petri KOTILUOTO, VP Nuclear Energy, VTT





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Session 2 Risks, safety and security management

Chairs: Chairperson1 and Chairperson2

2:30pm Introduction by session chairs

2:35pm STUK *Regulator's view on oversight in future and how digitalization supports it*

2:55pm Patrice FRANCOIS (IRSN) *NEA/CDLM/HDCS Status Work: Focus on the prioritization process for complex situations*

3:15pm - 3:45pm Coffee Break

3:45pm Vesa LAKANIEMI (The Mayor of Eurajoki municipality) *The pioneering work of Eurajoki in hosting the world's first repository*

4:05pm James M. HYLKO (Hylko Nuclear) *Design and qualification of spreadsheets used to report decommissioning environmental monitoring results to the public and regulators*

4:25pm Markus Airila (VTT) *Safety culture assessment in decommissioning: Methodology and impact*

4:45pm Alba VALLS (Amphos21) *Climate change modelling of decommissioning operations in nuclear sites for safety and civil society concerns*

5:05pm Yevgeniya TOMKIV (SHARE platform) *Enhance decommissioning with an input from social sciences and humanities research*

5:25pm Nikolaos PAPAKONSTANTINOU (VTT) *Cyber Security of sensitive digital assets – malware delivery channels*

17:45 Meeting adjourned

19:00 Welcome drinks

19:30 Banquet





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DAY 2 – Wednesday (25 October)

Session 3 starts at 8:40am

New initiatives and emerging technologies

Chairs: Chairperson1 and Chairperson2

8:40am Introduction by session chairs

8:45am Antti RÄTY (VTT) *Experiences from decommissioning of the Finnish research reactor FIR1*

9:05am Fionán O'CARROLL (SWECO) *Building Information Models in Nuclear Facilities*

9:25am Dusan DANISKA (WAI) *Complex waste management stream simulations and decommissioning cost sensitivity analysis using AquilaCosting software*

9:45am Javier ALONSO (INGECID) *VIRCORE-FLYT- A reality for a digital decommissioning*

10:05am Ole Jakob OTTESTAD (NND) *Milestone(s) on our journey towards a digital decommissioning*

10:25am - 11:00am Coffee Break

Session 4 Euratom Research and Training Programme and other Frameworks

Chairs: Chairperson1 and Chairperson2

11:00am Introduction by session chairs

11:05am Seifallah Ben Hadj HASSINE (European Commission) *Euratom Research and Training Programme*

11:25am Anthony BANFORD (NNL) *An SNETP perspective on the future direction of decommissioning and waste management, strategic research agendas and the engagement of end users in collaborative research projects*

11:45am Marie-Bénédicte JACQUES (CEA) *EURATOM PLEIADES Main outcomes, evaluation and steps forward*

12:05pm-1:30pm Lunch break

1:30pm Elke JACOPS (SCK CEN) *EURATOM HARPERS project overview: main results from Phase 1*

1:50pm Maugan MICHEL (CEA) *Update on EURATOM CLEANDEM project*





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2:10pm Federica ROBERTO (SCK CEN) *Digital Twin for optimizing dose assessment in decommissioning activities: a case study in the ANUBIS project*

2:30pm Joseph RIDAO (KIT) *Decommissioning Management and Leadership for Safety Education (DMaLSE)*

2:50pm Rainer DÄHN (PSI) *EURATOM PREDIS Experimental characterizations of 30-year-old radioactive waste packages and its use for the development of digital twins*

3:10pm Erika HOLT (VTT) & Réka SZŐKE (IFE) *EJP EURAD-2 initiative*

3:30pm - 4:00pm Coffee Break

Special Session PLEIADES Highlights Session

Introduction by session chairs & Practicalities (main room)

4.00pm Group discussions (main room)

Summaries in plenary at 5:30pm -6:00pm (main room)

18:00 Meeting adjourned





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DAY 3 – Thursday (26 October)

Session 5 starts at 8:40am

AI, Data and Robotics (role of digitalisation)

Chairs: Chairperson1 and Chairperson2

8:40am Introduction by session chairs

8:45am Hendrik SCHOPMANS (BASE) *Artificial intelligence and nuclear waste management: a regulatory perspective*

9:05am Jesse LAVONEN (FORTUM) *Robotics in decom – Research of robotic installation for clearance measurements of nuclear industries*

9:25am Rosemary LESTER (CREATEC) *Integration of robotics and human workers for efficient radiation protection management in nuclear operations*

9:45am Mats EKLUND (Nuclear Engineering Seibersdorf GmbH) *QR-code based digital material flow system for radioactive waste in Austria*

10:05am Taruta YASUYOSHI (JAEA) *Current activities and discussions regarding the digital usage of DX and KM in decommissioning of JAEA FUGEN*

10:25am - 11:00am Coffee Break

Chairs: Chairperson1 and Chairperson2

11:00am Introduction by session chairs

11:05am Tatu HARVIAINEN (VTT) *Robotics development in the Finnish decommissioning ecosystem*

11:25am Samuel COURTEILLE (NUVIA, on behalf of EGRSS) *The Expert Group on the application of Robotic/Remote Systems in the nuclear back-end (EGRSS): drafting guidance for RRS Benchmarking*

11:45am Nhan LE (Troyes University of Technology) *A fast-converging maximum a posteriori algorithm for 3D image reconstruction using multi-view Compton data*

12:05pm -1:30pm Lunch break





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- 1:30pm Patrick O'SULLIVAN (IAEA) *Digital technologies to advance decommissioning of nuclear facilities*
- 1:50pm James M. HYLKO (Hylko Nuclear) *What is the best emergency response plan during decommissioning?*
- 2:10pm Aaron ERIM (World Nuclear Association) *World Nuclear Association's activities in the backend of the nuclear fuel cycle*
- 2:30pm István SZŐKE (IFE) *Holistic approach to AI, data and robotics for sustainable decommissioning*
- 2:50pm Anssi PAALANEN (Business Finland) and Olli SOPPELA (VTT) *Finnish nuclear ecosystems*
- 3:10pm - 3:40pm Coffee Break

Special Session Breakout room

Introduction by session chairs & Practicalities (main room)

4.00pm Group discussions (meeting rooms at the venue)

Summaries in plenary at 5:30pm -6:00pm (main room)

18:00 Meeting adjourned





VTT IFE



NND



DECOM



WORLD NUCLEAR ASSOCIATION



EPRI

FINNUCLEAR



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DAY 4 - Friday (27 October)

Technical visit to VTT's facilities in Espoo at 9:00 – 12:30

Meeting point Aalto University Metro station at 9:00

Laboratory tour in VTT Centre for Nuclear Safety, Espoo

- Hot cells
- Radiochemistry

FiR 1 Research Reactor Decommissioning Site, Espoo

- Outside walking tour
- Presentation on lessons learned
- Video interview and Q&A with the shift supervisor at the controlled area

VTT arranges luggage storage during the tours.



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an RSK company