

DAY 1 – Tuesday (October 18th, 2022)

9:00am CET

1. Welcome speech by Ola Borten Moe, the Minister of Research and Higher Education
2. Welcome & Practicalities

Session 1:

Introductory presentations, including

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

Chairs: Patrick O’Sullivan (IAEA) and (IFE)

1. Introduction by Session Chairs
2. Title to be confirmed by Morten Irgens, Vice President of the AI, data and Robotics Association
3. Title to be confirmed by BEN HADJ HASSINE Seifallah Policy officer at the European Commission
4. IAEA: Overview by IAEA, incl. introduction of the e-learning and advanced tech. working groups by Patrick (IAEA)
5. NEA: Overview by NEA
6. History on decom research in HRP / HTO and the new Nor. Centre for Nuclear Research by Andreas Bye and István Szőke (IFE)

Coffee Break

7. NND: Status and needs in the Norwegian decom program by Nils Bøhmer and Timo (NND)
8. DECOM Cluster for decommissioning and repurposing by Nicky (SIN) and István (IFE)
9. Title to be confirmed by Craig Nicol (Net Zero Centre, UK)
10. Digital Twins are part of the data driven toolbox at Aker BP by Paula Doyle
11. EURATOM SHARE by Anthony B. (NNL)

Lunch Break at 12:00pm

[Performance by the Norwegian Wind Ensemble \(Det Norske Blåseensemble\)](#)

One of the oldest orchestras in Norway dating back to 1734 with an unbroken history. An important part of Norwegian cultural history consisting of 24 musicians playing within different music styles.

Pre-recorded presentations via the Atomondo hub: virtual venue for the nuclear community.

Joint Session 2: at 14:00pm

Competence development, including

- Competence mapping and road map development
- Training with the use of XR, serious games, and other technologies
- Education

Cross disciplinary case studies, including best practices and bench marking

Chairs: Martin A (NND) & Jan Otto Porsmyr (IFE)

1. Introduction by session chairs
2. 3-D Alara Simulation Tool in Nuclear Decommissioning: First Test in an Interim Storage Facility by Mahmoud Abdelrahman1 (SCK CEN)
3. Bridge the gap – New ways to attract the young generation for the nuclear industry

- by John Kettler, actimondo, Germany
4. Advanced training concepts and DigiDecom Training by Archita Rajkumari & István Szóke (IFE, Norway)
 5. Development of advanced technologies to meet the challenge of dismantling graphite reactors by Delphine Delvalle. (EDF)

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Coffee to go + Walk till IFE

[IFE Halden \(Os Alle 5\) starts at 16:00pm](#)

Discussions and summary (2h)

Moderators: Patrick (IAEA), Martin A (NND), Tim & Markus (VTT), Anthony, István, Rick, Ole Jakob, HARPERS, Martin B

- Group discussions (meeting rooms at IFE)
 1. Innovation needs and opportunities in Decom, synergy across industry domains
 2. Competence development in decom, synergy across industry domains (IAEA)
 3. Needs and examples for cross industrial initiatives
- Summaries in plenary from 17:30pm till 18:00pm (IFE Auditorium)

*[Opening night with welcome drinks and performance by the Norwegian Wind Ensemble \(Det Norske Blåseensemble\) at 19:00pm](#)

*[DigiDecom2022 dinner at 20:00pm](#)

DAY 2 – Wednesday (October 19th, 2022)

9:00am CET

Joint Session 3:

Sustainability and circular economy, including decommissioning and WM for new builds and future energy solutions

Project/decision support, including

- Project management
- Costing and Contracting
- Expert / smart decision support systems

Chairs: Federica P (Sogin), Markus A (VTT), Anthony B (NNL), Ernst (BAM)

1. Introduction by session chairs
2. Presentation on sustainability and circular economy in the nuclear by Federica P (Sogin)
3. Title to be confirmed by NORSUS
4. Title to be confirmed by SWECO Fióan O'Carroll and Fortum Antti Ketolainen
5. EURATOM PLEIADES by Markus Airila (VTT) & István Szóke (IFE)
6. EURATOM MICADO Project - Cost-effective solution for non-destructing characterization of nuclear waste by Massimo Morichi (CAEN, Italy)

Coffee Break

7. EURATOM PREDIS by Ernst (BAM)
8. EURATOM PREDIS predisposal waste management digital decision platform by IFE, Réka Sz. and Tom Robert B
9. Innovative IT system for nuclear decom and WM by ICCircle / Ingecid
10. On the advanced tech IAEA initiative by IFE/Federica/Patrick

Lunch break at 12:00pm

Pre-recorded presentations via the Atomondo hub: virtual venue for the nuclear community

Session 4: Roadshow at 13:00pm for sponsors of DigiDecom 2022

Platinum 10m, Gold 8m, others 5 minutes each

Chair: John Kettler (actimondo)

1. Intro by session chair(s)
2. Company Pitches (5 – 10m each)

Session 5 :

Young generation session at 14:20pm

Chair: PhD-Student (Nancy Bellingan from FH Aachen) and John Kettler (actimondo)

1. Introduction by session chair(s)
2. Students present their projects
3. Poster / online poster awards

Coffee Break + Walk till IFE

[IFE Halden \(Os Alle 5\)](#)

Discussions and summary at 16:00pm

Moderators: Patrick (IAEA), Markus (VTT) Federica (Sogin), John K, Tim (VTT), István (IFE), Ernst (BAM), Anthony, Rick.

- Group discussions (meeting rooms at IFE)
 1. Role of digitalization on strategic level, for improving on lifecycle and project level
 2. Sustainability and circular economy – synergy in needs across industries, application of general concepts to nuclear (focus on role of digitalization)
 3. EURATOM PREDIS related discussion session
- Summaries in plenary at 17:30pm until 18:00pm (IFE Auditorium)

[DigiDecom 2022 dinner at 19:30pm](#)

DAY 3 – Thursday (October 20th, 2022)

9:00am CET

Joint Session 6:

Risks, safety and security management

- Risk management
- Hazard management and safety considerations
- Security (including cyber security) aspects

Risk communication including

- Public communication and acceptance
- Regulatory communication and compliance
- Regulatory aspects/expectations for the use of AI, data and robotics technologies

Chairs: Katarzyna Siegien (DSA) and Bjørn Axel Gran (IFE)

1. Introduction by session chairs
2. Title to be confirmed by Katarzyna (DSA), Norway
3. Use of digitalization in the regulatory process by Mia Ylä-Mella (STUK)
4. Holistic process for decision making on decommissioning and management of complex sites – Status of NEA HDCS Expert Group by Patrice (IRSN)
5. Progress in multiple applications of autonomous radiation characterisation by Matt Mellor (Createc)

6. Information security in decommissioning projects by Nikolaos Papakonstantinou (VTT)

Coffee Break

7. EURATOM HARPER by Réka Szóke (IFE)
8. Status and benefits deriving from Digital Safety Case methods and development by Martin B (NEA)

Lunch Break at 12:00pm

Pre-recorded presentations via the Atomondo hub: virtual venue for the nuclear community

Session 7: at 13:00pm

Special session on robotics (with cost benefit in focus), in collaboration with EGRRS

Chairs: Martin Brandauer (NEA) and Petter Leira (IFE)

1. Introduction by session chairs
2. General speech based on the report to be published EGRRS by Martin B (NEA)
3. Specific presentation by EGRRS by Rick (EPRI)
4. HADRON and the RoboDecom project by the RoboDecom consortium
5. Modular Robotics for Solutions for Decommissioning and Waste Processing by Matt M. CEO of Createc
6. Example of methodology for cost-benefit-analysis in using RRS by Mustafa & Petter
7. Steam Generator dismantling using RRS by Ladislav (NEA)

Pre-recorded presentations via the Atomondo hub: virtual venue for the nuclear community

Coffee Break + Walk till IFE

[IFE Halden \(Os Alle 5\)](#)

Discussions and summary at 16:00pm

Moderators: Martin B, Norbert Molitor, Leo & Rick (Virtual), Réka Sz, Petter L, F. Millet (WP6), Tim, Mia

- Group discussions (meeting rooms at IFE)
 1. EURATOM HARPERS related discussion session with HARPERS (Réka & Tim & Mia & F. Millet)
 2. EGRRS related discussion sessions with EGRRS (Petter & Martin & X)
- Summaries in plenary at 17:30pm (IFE Auditorium)