



Conference on Geological Repositories (ICGR)

Advancing Geological Repositories from Concept to Operation

Agenda

04-08 April 2022

Venue: Congress Hall, Helsinki Congress Paasitorni Helsinki, Finland

Monday, 04 A	April 2022
10:00 – 17:30	Registration and badge pick-up
12:00 – 13:00	Younger Generation Lunch (Restaurant Graniittilinna, Paasitorni)
13:30 – 15:00	Ice breaker for the Younger Generation Session Co-ordinator Minori Kato, Senior Specialist, NEA Division of Radiological Protection and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea.org)
15:00 – 15:20	BREAK
15:20 – 17:30	 Younger Generation Session Chair (5 min session introduction + 1 min intro./speaker + 5 min summary) • Rebecca Tadesse, Head of NEA Division of Radioactive Waste Management and Decommissioning Speakers (12 min ppt each + 5 min Q&A) • Gerald Nieder-Westermann, Waste Technology Specialist, Waste Technology Section, Division of Nuclear Fuel Cycle and Waste Technology, International Atomic Energy Agency (IAEA) – IAEA Activities to Support Education and Career Development in Nuclear Field • Roger Garbil, Head of Section Fission, DG RTD C.4 (Euratom Research), European Commission (EC) – EC Activities to Support Education and Career Development in the Nuclear Field





Group Discussion (80 min)		
Participants: University students and young professionals	with 0-5	
years' work experience and under 30 years old	With 0 0	
yours now expension and analysis of yours and		
Facilitators		
• Richard S. Jayne, R&D Geosciences Engineer, Applied	Systems	
Analysis & Research Department, Nuclear Energy Fuel Cycle	Program,	
Sandia National Laboratories, United States		
Heidar Gharbieh, Senior Advisor, Section for Nuclear Safety, N	orwegian	
Radiation and Nuclear Safety Authority, Norway		
Ville Rinta-Hiiro, Research Scientist, VTT Technical Research	Centre of	
Finland Ltd, Finland		
 Shogo Nishikawa, Technology Integration Group (Integration 	ernational	
Coordination), Science and Technology Department, Nucle	ar Waste	
Management Organization of Japan (NUMO), Japan		
Closing remarks and Q&A		
William D. Magwood, IV, Director General, Nuclear Energy	y Agency	
Co-ordinator Minori Mate, Coning Consistint, NEA Birising of Badiological I)tt	
Minori Kato, Senior Specialist, NEA Division of Radiological Facility (Minori Kato @agad not an analysis)		
and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea	i.org)	
19:30 – 23:00 ICGR-6 Conference Dinner at Meripaviljonki		
Saastopankinranta 3 00530 Helsinki		
Turnellan OF Auril 0000		
Tuesday, 05 April 2022		
08:30 – 09:00 Registration and badge pick-up		
09:00 – 09:45 Welcome address and introductory remarks	Welcome address and introductory remarks	
William D. Magwood, IV, Director General, Nuclear Energy	•	
Liisa Heikinheimo, Deputy Director General, Energy De	partment,	
Ministry of Economic Affairs and Employment, Finland		
Moster of Coremonies:		
Master of Ceremonies:	faire and	
 Linda Kumpula, Senior Specialist, Ministry of Economic Af Employment 	ialis aliu	
Erika Holt, Customer Account Lead, VTT		
Elika Holt, Gustomer Account Leau, VIII		





09:45 – 10:30	Press conference BREAK	
10:30 – 13:00	Session 1: Present status of national geological disposal projects	
	1A. Status of national geological	
	Chair (10 min session introduction + 1 min int	
	Jussi Heinonen, Director, Re Radiation and Nuclear Safety	egulatory Oversight Strategic Development, y Authority (STUK), Finland
	Speakers (15 min ppt each + 10 min Q&A)	
	Janne Mokka, President, Po	osiva Oy, Finland
	Kimberly J. Petry, Acting D	Deputy Assistant Secretary, Office of Spent
		nited States Department of Energy (DOE)
		O, French National Radioactive Waste
		ra), Chair of International Association for
	'	eal of Radioactive Materials (EDRAM) ector, Swedish Nuclear Fuel and Waste
	Johan Dasht, Managing Dire Management Company (SKE)	
	, , ,	y CEO / Major Capital Programmes Director,
	Nuclear Waste Services, Uni	, ,
		and CEO, Nuclear Waste Management
	Organisation (NWMO), Cana	nda
	Thomas Lautsch, Technica Radioactive Waste Disposal	I Managing Director, Federal Company for (BGE), Germany
	•	Senior Advisor, Norwegian Nuclear
	Decommissioning (NND), I	Norway; Antti Ikonen, Project Manager,
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	; Timo Saanio, Vice President, AINS Group,
	Finland, Co-Author	
	<u>Co-ordinator</u>	
	Martin Brandauer, Specia	alist on Decommissioning and Legacy
	Management, NEA Division	of Radioactive Waste Management and
10.00	Decommissioning (Martin.Bra	andauer@oecd-nea.org)
13:00 – 14:30	LUNCH	
14:30 – 16:30	1B. Panel debate on progress	achieved
	Co-Chairs (5 min session introduction + 1 mi	
		ector, Swedish Nuclear Fuel and Waste
	Management Company (SKE	
		missioner for Atomic Energy, French mic Energy Commission (CEA), France
	Panellists (5 min ppt each + 40 min panel + 2	` ,
		siva Oy, Finland – Addressing Scientific and
	Jaime wicka, Fresident, Fo	siva Oy, i iilialia — Addressiriy oderitiile allu





	Technical Considerations in Preparing for Operation in Finland
	Jaakko Leino, Director, Department of Nuclear Waste Regulation and
	Safeguards, Radiation and Nuclear Safety Authority (STUK), Finland-
	Key elements supporting the progress in repository development –
	Regulator's view
	Frédéric Plas, Director of Cigéo Programme, French National
	Radioactive Waste Management Agency (Andra), France - Success
	factors and lessons learnt from recent achievements on Cigéo's licensing
	process
	Tomokazu Shimohori, Director, Radioactive Waste Management Policy
	Division, Electricity and Gas Industry Department, Agency for Natural
	Resources and Energy (ANRE), Ministry of Economy, Trade and Industry
	(METI), Japan – The Role of Government and Public Acceptance –
	Outcomes from International Roundtable
	Maurus Alig, Coordinator Major Project Sectoral Plan Stage 3 / General
	Licences, Member of the Executive Board, National Cooperative for the
	•
	Disposal of Radioactive Waste (Nagra), Switzerland – The Rock Will
	Speak Soon
	Lukáš Vondrovic, Head of RAW Development Department, Radioactive
	Waste Repository Authority (SÚRAO), Czech Republic – Current
	challenges in site assessment for deep geological repository: case study
	from Czech Republic
	Sean Tyson, Co-Chair, IFNEC RNFSWG; Office of International Nuclear
	Energy, Office of Nuclear Energy, U.S. Department of Energy (DOE)-
	Exploring Opportunities for Multinational Cooperation on Waste
	Management and Disposal
	Zuzana Petrovicova, Head of Unit, DG ENER D.2 (Nuclear Energy,
	Nuclear Waste and Decommissioning), European Commission (EC) -
	Overview of EU funded activities and policy on Geological Repositories
	<u>Co-ordinator</u>
	Martin Brandauer, Specialist on Decommissioning and Legacy
	Management, NEA Division of Radioactive Waste Management and
	Decommissioning (Martin.Brandauer@oecd-nea.org)
16:30 – 16:50	BREAK
16:50 – 17:40	Outcomes of the Younger Generation Session
	<u>Chair</u> (5 min session introduction + 5 min summary)
	Rebecca Tadesse, Head of NEA Division of Radioactive Waste
	Management and Decommissioning
	Speakers (8 min ppt each + 8 min Q&A w/ audience)
	Representatives of each group





	Co-ordinator Minori Kato, Senior Specialist, NEA Division of Radiological Protection and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea.org)
17:40 – 18:00	Master of Ceremonies: End of day remarks

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09:00 - 11:00

Session 2: Demonstrating technical reliability for operational and long-term safety (including peer-reviews)

2A. The role of underground research laboratories and international collaboration

<u>Chair</u> (10 min session introduction + 1 min intro./speaker + 5 min summary)

 Kristopher Kuhlman, Principal Technical Staff Hydrologist, Sandia National Laboratories, United States

Speakers (15 min ppt each + 10 min Q&A)

- Teruki lwatsuki, Director, Horonobe Underground Research Department, Horonobe Underground Research Center, Japan Atomic Energy Agency (JAEA), Japan – R&D at Horonobe URL for Disposal Technology in Geological Environments Affected by Relatively Active Tectonics
- Frédéric Plas, Director of Cigéo Programme, French National Radioactive Waste Management Agency (Andra), France - Andra's URL in Bure: Major Role in Progressive Development of Cigéo Safety Case and License Application
- Jessica Palmqvist, Head of Research and Development, Swedish Nuclear Fuel and Waste Management Company (SKB), Sweden – The Swedish journey to a final repository for spent nuclear fuel – the role of URL in general and Äspö HRL in particular
- Stratis Vomvoris, Executive Advisor, International Services and Projects, National Cooperative for the Disposal of Radioactive Waste (Nagra), Switzerland – Grimsel Test Site and Mont Terri Project – The contribution of the 2 URLs in the advancement of geological repositories
- Philippe Lalieux, Director, Long Term Waste Management at ONDRAF/NIRAS - Importance of HADES URL in Belgian RD&D program on geological disposal
- Young Professional Representative: Richard S. Jayne, R&D Geosciences Engineer, Applied Systems Analysis & Research Department, Nuclear Energy Fuel Cycle Program, Sandia National





	Laboratories, United States – Nuclear Waste Disposal in Salt: International Collaborations Co-ordinator • Haimanot Yilma, Specialist, NEA Division of Radioactive Waste Management and Decommissioning (Haimanot.Yilma@oecd-nea.org)
11:00 – 11:30	BREAK
11:30 – 12:45	2B. Panel debate on demonstrating technical reliability Chair (5 min session introduction + 1 min intro./speaker + 5 min summary) • Pierre-Marie Abadie, Chair of International Association for Environmentally Safe Disposal of Radioactive Materials (EDRAM); CEO, French National Radioactive Waste Management Agency (Andra), France
	 Panellists (5 min ppt each + 20 min panel + 5 min Q&A w/ audience) Shunsuke Kondo, President, Nuclear Waste Management Organization of Japan (NUMO), Japan – Demonstrating Technical Reliability in Japan Tiina Jalonen, Development Director, Posiva Oy, Finland – Use of Information from Different Types of Facilities to Demonstrate Technical Reliability (e.g. Äspö Hard Rock Laboratory, surface domo facilities, onsite underground research laboratory - ONKALO) Emily Stein, Technical Manager, Sandia National Laboratories, United States – Geologic Disposal Systems Analysis (GDSA) Frédéric Plas, Director of Cigéo Programme, French National Radioactive Waste Management Agency (Andra), France – Technical Reliability and Readiness of Cigeo Project Cherry Tweed, Special Advisor – GDF Programme, Nuclear Waste Services, United Kingdom – Demonstrating Technical Reliability for Operational and Long-term Safety in the UK Tim Vietor, Division Head of Safety, Geology and Radioactive Materials, Member of the Executive Board, National Cooperative for the Disposal of Radioactive Waste (Nagra), Switzerland – Demonstrating Technical Reliability in Switzerland: Experience from both Grimsel Test Site and Mont Terre Project Ju Wang, Vice President, Beijing Research Institute of Uranium Geology (BRIUG), China – Achievements and Prospects in Beishan Underground Research Laboratory Pär Grahm, Head of Repository Technology, Swedish Nuclear Fuel and Waste Management Company (SKB), Sweden





	Co-ordinator	
	Marie Maertens, International Institutional Relations Officer, International	
	Relations Department, French National Radioactive Waste Management	
	, ,	
10.00	Agency (Andra), France (marie.maertens@andra.fr)	
13:00 – 14:00	LUNCH	
14:00 - 16:40	Session 3: Elements for building and maintaining competence	
	(from siting to construction to operation)	
	3A. Elements for building and maintaining competence	
	Chair (10 min session introduction + 1 min intro./speaker + 5 min summary)	
	• Piet Zuidema, Chief Scientific Officer, European Joint Programme on	
	Radioactive Waste Management (EURAD)	
	Speakers (15 min ppt each + 20 min Q&A)	
	Haidy Tadros, Chair of NEA Committee on Decommissioning of Nuclear	
	Installations and Legacy Management (CDLM); Director General,	
	Canadian Nuclear Safety Commission (CNSC) - Abilities and Attitudes –	
	A Regulatory Perspective	
	Janette Meacham, NWM Licensing & Knowledge Management Lead,	
	Nuclear Energy Fuel Cycle Program, Sandia National Laboratories,	
	United States – NEFC Knowledge Management Pilot Project	
	Irina Gaus, Head of Research and Development, National Cooperative for the Diagnost of Rediscretive Wests (Nagra) Swiftendand: Chair The Diagnost of	
	for the Disposal of Radioactive Waste (Nagra), Switzerland; Chair,	
	Implementing Geological Disposal of radioactive waste Technology	
	Platform (IGD-TP) – Building and maintaining technical and scientific	
	competence for DGRs": observations from Implementers	
	Felix Altorfer, Director, Radioactive Waste Management Division, Swiss	
	Federal Nuclear Safety Inspectorate (ENSI), Switzerland – Competency	
	Management of Regulators	
	Joaquín Farias Seifert, Head of Department of International Relations	
	and R&D, Spanish Radioactive Waste Management Organization	
	(ENRESA), Spain - Enresa: the DGR programme	
	Gerald Nieder-Westermann, Waste Technology Specialist, Waste	
	Technology Section, Division of Nuclear Fuel Cycle and Waste	
	Technology, International Atomic Energy Agency (IAEA) - Roadmap to	
	Implementing Deep Geologic Repositories and the Role of Underground	
	Research Facilities	
	Young Professional Representative: Mark Gobien, Section Manager,	
	Safety Assessment Models, Nuclear Waste Management Organization	





	(NWMO), Canada – Building and Maintaining Competence in Site-Specific Safety Assessments through Iteration Co-ordinator • Martin Brandauer, Specialist on Decommissioning and Legacy Management, NEA Division of Radioactive Waste Management and Decommissioning (Martin.Brandauer@oecd-nea.org)
16:40 – 16:50	BREAK
16:50 – 18:00	3B. Panel debate on building and maintaining human capacity Chair (5 min session introduction + 1 min intro./speaker + 5 min summary) • Kai Hämäläinen, Section Head, Regulation of Nuclear Waste Facilities, Radiation and Nuclear Safety Authority (STUK), Finland Panellists (5 min ppt each + 20 min panel + 5 min Q&A w/ audience) • Vincenzo Rondinella, Head of Department, DG JRC G.III (Nuclear Decommissioning), Joint Research Centre, European Commission (EC) • Klaus-Jürgen Röhlig, Professor, Clausthal University of Technology (TUC), Germany – Building and Maintaining Competence in Germany • Fabrice Puyade, Director of the Human Resources Division, French National Radioactive Waste Management Agency (Andra), France – Andra's HR strategy for preparing Cigeo construction • Gerald Nieder-Westermann, Waste Technology Specialist, Waste Technology Section, Division of Nuclear Fuel Cycle and Waste Technology, International Atomic Energy Agency (IAEA) • Kathryn Ann Higley, Interim Director CQLS - Center for Quantitative Life Sciences, Oregon State University Co-ordinator • Marie Maertens, International Institutional Relations Officer, International Relations Department, French National Radioactive Waste Management Agency (Andra), France (marie.maertens@andra.fr)
18:00 – 18:10	Master of Ceremonies: End of day remarks

Thursday, 7	April 2022
09:00 – 11:30	Session 4: Building and maintaining trust 4A. Best practices to build and maintain trust
	Chair (10 min session introduction + 1 min intro./speaker + 5 min summary)



Pascale Künzi, Chair of NEA Forum on Stakeholder Confidence (FSC);
 Regional Participation Specialist (Stakeholder Involvement Specialist),
 Swiss Federal Office of Energy (SFOE), Switzerland
 Speakers (15 min ppt each + 10 min Q&A)

- **Sigrid Eeckhout**, Head of Communication and Participation Department, Belgian Agency for Radioactive Waste and Enriched Fissile Materials (ONDRAF/NIRAS), Belgium *Approaches to Youth Engagement*
- Nuria Prieto Serrano, Lawyer, Technical Division, Department of International Relations, Spanish Radioactive Waste Management Organization (ENRESA), Spain – The importance of the dialogue with the local communities to build trust in the long-term management of radioactive waste
- Anna Porelius, Head of Communications and Stakeholder Relations, Swedish Nuclear Fuel and Waste Management Company (SKB), Sweden
- Annabelle Quenet, Head of Public Involvement Department, French National Radioactive Waste Management Agency (Andra), France - 30 Years' Experience from Public Information to Effective Public Involvement into Cigéo Project
- Zuzana Petrovicova, Head of Unit, DG ENER D.2 (Nuclear Energy, Nuclear Waste and Decommissioning), European Commission (EC) – Building and Maintaining Trust in the EU
- **Ilona Sjöman**, Chair of the Municipal Council of Eurajoki *Involvement of Local People in the Development of Geological Repositories*
- Graduate Student Representative: Jorina Suckow, Graduate Student, Member of Nationales Begleitgremium (National Civil Society Board), Germany

Co-ordinator

 Minori Kato, Senior Specialist, NEA Division of Radiological Protection and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea.org)

11:30 – 11:50 BREAK 4B. Panel debate on communicating uncertainty from the scientist to the community Chair (5 min session introduction + 1 min intro./speaker + 5 min summary) • Karim Peltonen, Director, Department of Emergency Preparedness, Communications and International Cooperation, Radiation and Nuclear Safety Authority (STUK), Finland Panellists (5 min ppt each + 20 min panel + 10 min Q&A w/ audience) • Ramzi Jammal, Executive Vice-President, Canadian Nuclear Safety

Commission (CNSC), Canada – Regulator representative





Co-ordinator Minori Kato, Senior Specialist, NEA Division of Radiological Protection and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea.org) 13:00 – 14:00 LUNCH 14:00 – 16:00 Session 5: Outcome Session Rapporteur (20 min pre-summary + 10 min final summary) Seif Ben Hadj Hassine, Scientific and Policy Officer, DG RTD C.4 (Euratom Research), European Commission (EC) – Summary of Sixth ICGR Session Chairs (5 min ppt each + 25 min panel + 20 min Q&A w/ audience) Younger Generation Session: Rebecca Tadesse, Head of NEA Division of Radioactive Waste Management and Decommissioning 1A: Jussi Heinonen, Director, Regulatory Oversight Strategic Development, Radiation and Nuclear Safety Authority (STUK), Finland 1B: Patrick Landais, High Commissioner for Atomic Energy, French Alternative Energies and Atomic Energy Commission (CEA), France 2A: Kristopher Kuhlman, Principal Technical Staff Hydrologist, Sandia National Laboratories, United States 2B: Pierre-Marie Abadie, Chair of International Association for Environmentally Safe Disposal of Radioactive Materials (EDRAM); CEO, French National Radioactive Waste Management Agency (Andra), France		 Claire Corkhill, Member of Committee on Radioactive Waste Management (CoRWM), Reader in Nuclear Material Corrosion, EPSRC Early Career Research Fellow, Department of Materials Science and Engineering, The University of Sheffield, United Kingdom; – Experts supporting the choice of using geological repositories to manage radioactive waste Gaston Meskens, Centre for Ethics and Value Inquiry, University of Ghent, Belgium Philip Matthews, Executive Director, Nuclear Legacy Advisory Forum (Nuleaf), United Kingdom – Local government and community perspectives on the geological disposal siting process Penny Lucas, Mayor for the Township of Ignace, Canada – Local government and community perspectives on the geological disposal siting process Graduate Student Representative: Emma Perry, PhD student, Department of Earth Sciences, University of Cambridge – Online Engagement 	
Minori Kato, Senior Specialist, NEA Division of Radiological Protection and Human Aspects of Nuclear Safety (Minori.Kato@oecd-nea.org) 13:00 – 14:00 LUNCH Session 5: Outcome Session Rapporteur (20 min pre-summary + 10 min final summary) Seif Ben Hadj Hassine, Scientific and Policy Officer, DG RTD C.4 (Euratom Research), European Commission (EC) – Summary of Sixth ICGR Session Chairs (5 min ppt each + 25 min panel + 20 min Q&A w/ audience) Younger Generation Session: Rebecca Tadesse, Head of NEA Division of Radioactive Waste Management and Decommissioning 1A: Jussi Heinonen, Director, Regulatory Oversight Strategic Development, Radiation and Nuclear Safety Authority (STUK), Finland 1B: Patrick Landais, High Commissioner for Atomic Energy, French Alternative Energies and Atomic Energy Commission (CEA), France 2A: Kristopher Kuhlman, Principal Technical Staff Hydrologist, Sandia National Laboratories, United States 2B: Pierre-Marie Abadie, Chair of International Association for Environmentally Safe Disposal of Radioactive Materials (EDRAM); CEO, French National Radioactive Waste Management Agency			
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14:00 – 16:00 Session 5: Outcome Session Rapporteur (20 min pre-summary + 10 min final summary) Seif Ben Hadj Hassine, Scientific and Policy Officer, DG RTD C.4 (Euratom Research), European Commission (EC) – Summary of Sixth ICGR Session Chairs (5 min ppt each + 25 min panel + 20 min Q&A w/ audience) Younger Generation Session: Rebecca Tadesse, Head of NEA Division of Radioactive Waste Management and Decommissioning 1A: Jussi Heinonen, Director, Regulatory Oversight Strategic Development, Radiation and Nuclear Safety Authority (STUK), Finland 1B: Patrick Landais, High Commissioner for Atomic Energy, French Alternative Energies and Atomic Energy Commission (CEA), France 2A: Kristopher Kuhlman, Principal Technical Staff Hydrologist, Sandia National Laboratories, United States 2B: Pierre-Marie Abadie, Chair of International Association for Environmentally Safe Disposal of Radioactive Materials (EDRAM); CEO, French National Radioactive Waste Management Agency		·	
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	 3A: Piet Zuidema, Chief Scientific Officer, European Joint Programme on Radioactive Waste Management (EURAD) 3B: Kai Hämäläinen, Section Head, Regulation of Nuclear Waste Facilities, Radiation and Nuclear Safety Authority (STUK), Finland 4A: Pascale Künzi, Chair of NEA Forum on Stakeholder Confidence (FSC); Regional Participation Specialist (Stakeholder Involvement Specialist), Swiss Federal Office of Energy (SFOE), Switzerland 4B: Karim Peltonen, Director, Department of Emergency Preparedness, Communications and International Cooperation, Radiation and Nuclear Safety Authority (STUK), Finland 	
16:00 – 16:30	BREAK	
16:30 - 16:45	Session 6: Summary and Closing Session	
	Closing addresses	
	Hiroyuki Umeki, Chair of NEA Radioactive Waste Management Committee (RWMC); Executive Director, Nuclear Waste Management	

Friday, 8 April 2022

A site visit has been made available to pre-registered participants to a low and intermediate level waste repository with an exhibition on the underground rock characterisation facility (ONKALO) at Olkiluoto, Finland.

An alternative satellite site visit has also been made available to pre-registered participants that will take place at the Geological Survey of Finland Auditorium, in Otainiemi, Espoo.