

# **International Conference on Radioactive Waste Management: Solutions for a Sustainable Future**

1 – 5 November 2021

## **PROGRAMME**

Organized by the  
International Atomic Energy Agency (IAEA)

In cooperation with the

European Commission (EC)  
Organisation for Economic Co-operation and Development/  
Nuclear Energy Agency (OECD/NEA)  
World Nuclear Association (WNA)

IAEA Headquarters Vienna, Austria

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Conference Organizer:

J. Zellinger, MTCD

Administrative Support:

B. Altenhofer, NEFW  
M. Tolstenkova, NEFW  
E. Goek, NEFW

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**Location of the Event:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
Building M, BRB/M1

Wagramer Strasse 5  
A-1400 Vienna, Austria  
Tel.: (+43 1) 2600 21330

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**Working Language:** English

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**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

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## TIMETABLE - OVERVIEW

### Sunday, 31 October 2021

Time	Session No.	Session Title / Break
17:00 – 18:30		Young Professional Event: Being Part of the Solution – Career Paths for a Sustainable Future

### Monday, 1 November 2021

Time	Session No.	Session Title / Break
10:00 – 11:45		Opening of the Conference
12:00 – 13:00		Side Event: Pakistan - IAEA Cooperation in Safe Management of Radioactive Waste
13:30 – 16:40	1	Radioactive Waste Management – National Programmatic Perspectives
17:00 – 18:00		Side Event: Innovation in Radioactive Waste Management for a Sustainable Future

### Tuesday, 2 November 2021

Time	Session No.	Session Title / Break
08:30 – 12:00	2	Implementation of Waste Management Strategies
12:15 – 13:15		Side Event: Safeguards: The Often-Overlooked Requirement in Waste Management
13:30 – 17:00	3	Solutions for Specific Wastes
17:15 – 18:45		Side Event: Member State Updates and Progress in the Management of Disused Sealed Radioactive Sources (DSRS) and the Global Path Forward

### Wednesday, 3 November 2021

Time	Session No.	Session Title / Break
08:30 – 12:00	4	Role of the Safety Case Development in Supporting Radioactive Waste Management
12:15 – 13:15		Side Event: Building Stakeholder Confidence for Sustainable Radioactive Waste Management
13:30 – 17:00	5	Socio-Economic Aspects of Radioactive Waste Management Programmes

Time	Session No.	Session Title / Break
17:15 – 18:45		Side Event: Final Disposal of Spent Nuclear Fuel in Finland

### **Thursday, 4 November 2021**

Time	Session No.	Session Title / Break
08:30 – 12:00	6	Integrated Waste Management
12:15 – 13:15		Side Event: Beishan Underground Research Laboratory in China
13:30 – 17:00	7	Multinational Cooperation in Radioactive Waste Management
17:15 – 18:45		Side Event: Collaborative Research and Innovation in RWM in the Euratom Community

### **Friday, 5 November 2021**

Time	Session No.	Session Title / Break
09:00 – 12:00		Closing Session
13:30–15:00		Young Professional Event: Looking to a Sustainable Future (Young Professionals Feedback)

## SUNDAY, 31 October 2021

**17:00 – 18:30**    **YOUNG PROFESSIONAL EVENT:**  
**Being Part of the Solution: Career Paths for a Sustainable**  
**Future (CR-4)**

Time	Name	Designating Member State / Organization
17:00 – 18:30	<b>C. Van Drunen</b>	Canada
	<b>K. Wheeler</b>	United Kingdom
	<b>L. Swami</b>	Canada
	<b>H. J. Steinmetz</b>	Germany
	<b>A. Wickham</b>	United Kingdom
	<b>M. Rizvi</b>	Pakistan
	<b>M. Vickerd</b>	Canada

# MONDAY, 1 November 2021

## 10:00-11:45 OPENING SESSION

Time	Name	Designating Member State/Organization	Title
10:00	<b>F. Dragolici</b> <b>G. Nieder-Westermann</b> <b>D. G. Bennett</b> <b>A. Guskov</b>	Scientific Secretaries, IAEA	Welcome Address
10:05	<b>R. M. Grossi</b>	Director General, IAEA	Opening Statement
10:10	<b>C. Xerri</b> <b>P. Johnston</b>	DIR-NEFW DIR-NSRW	Opening Remarks
10:15	<b>K. Wheeler</b> <b>M. Naeem</b>	United Kingdom Pakistan	Chair Opening Statement Co-Chair Opening Statement
10:45	<b>Coffee Break</b>		
11:00	<b>V. Rondinella</b> <b>R. Tadesse</b> <b>S. Bilbao y Leon</b> <b>R. Robbins</b>	EC OECD/NEA WNA NEFW, IAEA - Moderator	Multilateral Collaboration in Radioactive Waste Management
11:30	<b>W. Neckel</b>	Austria	Integrated Waste Stream Management in a Small Inventory Country

## 12:00 – 13:00 SIDE EVENT: Pakistan – IAEA Cooperation in Safe Management of Radioactive Waste (BRA)

Time	Speakers	Designating Member State/Organization
12:00 – 13:00	<b>M. Naeem</b> <b>S. Ali</b> <b>M. Hussain Rizvi</b> <b>A. Shakhashiro</b>	Pakistan Pakistan Pakistan IAEA



**13:30 – 16:40    SESSION 1:  
Radioactive Waste Management – National  
Programmatic Perspectives**

**Chair:                Sergey Utkin – Russian Federation**

**Co-Chair:          Zainab Kamara – Sierra Leone**

**Rapporteur:       Ernest Hardin – United States of America**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
13:30	<b>S. Utkin</b>	Russian Federation	Opening Remarks	
13:35	<b>L. Swami</b>	Canada	Keynote Speech: Toward a new Global Standard: Canada's Outlook for the Future of Radioactive Waste Management	300
13:55	<b>A. Bevilacqua</b>	Argentina	Spent fuel, Disused Sources and Radioactive Waste Management Strategy in Argentina	297
14:15	<b>V. Jakimaviciute- Maseliene</b>	Lithuania	Implementation of Deep Geological Repository Programme in Lithuania	92
14:35	<b>J. Shatwell</b>	Australia	Plans and Progress in Establishing the Australian Radioactive Waste Agency National Radioactive Waste Management Facility	151
14:55	<b>Coffee Break and E-Posters</b>			
15:25	<b>K. Sengul</b>	Turkey	Radioactive Waste Management in Turkey	
15:45	<b>C. Parr</b>	United Kingdom	An Integrated Approach to Waste Management	
16:05	<b>H. Kristiansen</b>	Norway	Young Professional Showcase Lead: Development of a Comprehensive Nuclear Waste Management Program in a Small-Inventory State	
16:10	<b>Panel Discussion and Closing</b>			

**17:00 – 18:00    SIDE EVENT:  
Innovation in Radioactive Waste Management for a  
Sustainable Future (BRA)**

Time	Speakers	Designating Member State/ Organization
17:00 – 18:00	<b>C. Van Drunen</b> <b>R. Whittleston</b> <b>M. Vickerd</b> <b>C. Tweed</b> <b>F. Allison</b>	Canada United Kingdom Canada United Kingdom United Kingdom

**TUESDAY, 2 November 2020**

**08:30 – 12:00    SESSION 2:  
Implementation of Waste Management  
Strategies**

**Chair:**            **Cherry Tweed, United Kingdom**

**Co-Chair:**      **Ritu Pilania, India**

**Rapporteur:**    **Thilo Von Berlepsch, Germany**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
08:30	<b>C. Tweed</b>	United Kingdom	Opening Remarks	
08:35	<b>T. Jalonen</b>	Finland	Posiva preparing for Operating a Final Disposal Facility for Spent Nuclear Fuel	249
08:55	<b>S. Cha</b>	Rep. of Korea	Radioactive Waste Management Strategy in the Republic of Korea	167
09:15	<b>T. Lautsch</b>	Germany	Asse and Konrad – Germanys LAW/MAW Construction Projects at Full Steam	288
09:35	<b>M. H. Rizvi</b>	Pakistan	Advances in Implementing Strategy for Management of Radioactive Waste in Pakistan	47
09:55	<b>Coffee Break and E-Posters</b>			
10:25	<b>S. Deryabin</b>	Russian Federation	The National Strategy of the Russian Federation in the Field of RW Management: Main Provisions and Progress in its Implementation	132
10:45	<b>D. Delort</b>	France	French Progress on Radioactive Waste Management Disposal Projects	147
11:05	<b>A. Carolissen</b>	South Africa	Ensuring the Safe, Secure and Sustainable Disposal	307

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
			of Radioactive Waste: A South African Perspective	
11:35	<b>A. Kuznetsov</b>	Russian Federation	Young Professional Showcase Lead: Complete Recycling of Boric Acid From the Primary Circuit Coolant Obtaining Commercial Borate Products	143

11:40 **Panel Discussion and Closing**

**12:15 – 13:15 SIDE EVENT:  
Safeguards: The Often-Overlooked Requirement in Waste Management (BRA)**

Time	Speakers	Designating Member State/ Organization
12:15 – 13:15	<b>J. Whitlock</b> <b>N. Smith</b>	SGCP, IAEA NEFW, IAEA

**13:30 – 17:00 SESSION 3:  
Solutions for Specific Wastes**

**Chair: Maria Lindberg, Sweden**

**Co-Chair: Archita Rajkumari, Germany**

**Rapporteur: Ewoud Verhoef, Netherlands**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
13:30	<b>M. Lindberg</b>	Sweden	Opening Remarks	
13:35	<b>N. Butler</b>	USA	Increased Safety Measures for Removal of Self-Shielded Irradiators Containing Category 1 and 2 Sealed Radioactive Sources	262
13:55	<b>F. Pancotti</b>	Italy	Application of Direct Cementation System for Small Volume of Alpha Contaminated Aqueous Waste (Cementation SaG IPU)	36
14:15	<b>A. Malekifarsani</b>	Iran	Radioactive Waste Management Issues and Challenges in Iran	295
14:35	<b>A. Larsson</b>	Sweden	Melting of Contaminated Metals for Clearance and Recycling - 30 + Years of Practical Experience	242

14:55 **Coffee Break and E-Posters**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
15:25	<b>K. Pancholi</b>	India	Technological Advancement in Effective Management of Low Level Radioactive Solid Wastes	59
15:45	<b>N. Saito</b>	Japan	Current Status of Solid Waste Management on Fukushima Daiichi Nuclear Power Station	273
16:05	<b>M. Prazska</b>	Slovakia	Application of Geopolymers in Management of Problematic Radioactive Waste	308
16:25	<b>H. Hasna</b>	Morocco	Young Professional Showcase Lead: Solidification of Radioactive Resins with Geopolymer Package: A Circular Economy Concept of Handling Nuclear Waste with Mine Tailings	113
16:30	<b>Panel Discussion and Closing</b>			

**17:15 – 18:45    SIDE EVENT:  
Member State Updates and Progress in the Management of Disused Sealed Radioactive Sources (DSRS) and the Global Path Forward (BRA)**

Time	Name	Designating Member State/ Organization
17:15 – 18:45	<b>A. Alsabbagh</b>	Jordan
	<b>I. Kaisas</b>	Greece
	<b>L. Al Attar</b>	Syria
	<b>C. Streeper</b>	United States of America
	<b>M. Mendoza Contreras</b>	Chile
	<b>M. Ibrahim</b>	Malaysia

## WEDNESDAY, 3 November 2021

**08:30 – 12:00**    **SESSION 4:**  
**Role of the Safety Case Development in**  
**Supporting Radioactive Waste**  
**Management**

**Chair:**            **Christina Van Drunen, Canada**

**Co-Chair:**        **Mirza Tayyeb, Pakistan**

**Rapporteur:**    **Xudong Liu, People's Rep. of China**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
08:30	<b>C. V. Drunen</b>	Canada	Opening Remarks	
08:35	<b>S. Voinis</b>	France	Keynote Speech: Role of the Safety Case Development in Supporting Radioactive Waste Management- French illustrationon HLW and ILW management- The Cigéo Disposal	188
08:55	<b>S.D. Santos Cota</b>	Brazil	Development of A Safety Assessment for the Brazilian Near-Surface Repository in the Site Selection Phase	89
09:15	<b>I. Lopez Diez</b>	Spain	The Safety Study in Support of the Development and Improvement of Waste Management at El Cabril Disposal Facility	305
09:35	<b>S. Utkin</b>	Russian Federation	R&D Program for the Development of a Deep RW Disposal Facility in the Russian Federation: Basic Principles Of Development, Structure and Specific Features of its Implementation	111
09:55	<b>Coffee Break and E-Posters</b>			
10:25	<b>A. Huntington</b>	United Kingdom	The Benefits of a Targeted R&D Programme to Address Key Questions	191
10:45	<b>G. Gwak</b>	Rep. of Korea	Waste Acceptance Criteria (WAC) for Underground Radioactive Waste Repository in Republic of Korea	138
11:05	<b>P. Zhang</b>	People's Rep. of China	Current Status and Challenges of China's Low and Intermediate Level Radioactive Waste (LILW) Disposal	302
11:35	<b>M. Herod</b>	Canada	Young Professional Showcase Lead: Canadian Regulatory Review of Waste Acceptance Criteria for a Low-Level Near Surface Disposal Facility	244
11:40	<b>Panel Discussion and Closing</b>			

**12:15 – 13:15 SIDE EVENT:  
Building stakeholder Confidence for Sustainable  
Radioactive Waste Management (BRA)**

Time	Name	Designating Member State/ Organization
12:15 – 13:15	<b>A. De Ruvo</b>	WNA
	<b>S. Mekki</b>	OECD/NEA
	<b>R. Tadesse</b>	OECD/NEA
	<b>Y. Lheureux</b>	France
	<b>N. Prieto Serrano</b>	Spain
	<b>J. Brown</b>	Canada
	<b>C. Evans</b>	WNA

**13:30 – 17:00 SESSION 5:  
Socio-Economic Aspects of Radioactive  
Waste Management Programmes**

**Chair:** Safdar Ali, Pakistan

**Co-Chair:** Liam Payne, United Kingdom

**Rapporteur:** Rebecca MacKenzie, Australia

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
13:30	<b>S. Ali</b>	Pakistan	Opening Remarks	
13:35	<b>E. Verhoef</b>	Netherlands	Keynote Speech: Open, Transparent but not Invisible	312
13:55	<b>A. Tiruneh</b>	Ethiopia	Attitudinal Social Impacts on Radioactive Waste Management Programs and Practices: A Case Review of the Ethiopian Radioactive Waste Management and Processing Facility Activities	106
14:15	<b>C. Bolli</b>	Switzerland	Socio-Economic Effects of Deep Geological Repositories: Opportunities or Threats? The Swiss Case	284
14:35	<b>J. Ottmann</b>	Germany	Fostering Stakeholder Engagement: Self-organization as a New Approach to Public Participation in the Context of the German Site Selection Procedure	172
14:55	<b>Coffee Break and E-Posters</b>			
15:25	<b>M. Phaneuf</b>	Canada	Tools and Methodologies for Engagement with the Public and Affected Communities for Regulation of Radioactive Waste Management Projects	257
	<b>A. Levine</b>	Canada		

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
15:45	<b>C. Mendez Cruz</b>	United States of America	Sociotechnical Systems Design for Consent-Based Siting of Nuclear Waste Facilities	215
16:05	<b>S. Kondo</b>	Japan	Strategies and Practices to Enhance Public Awareness for Implementing Radioactive Waste Management Programmes in Japan	304
16:25	<b>R. Soares Souza Pimenta de Almeida</b>	Brazil	Young Professional Showcase Lead: Site Selection Methodology for the Brazilian Repository for Low and Intermediate-Level Radioactive Waste Through Geospatial Analysis	110
16:30	<b>Panel Discussion and Closing</b>			

**17:15 – 18:45    SIDE EVENT:  
Final Disposal of Spent nuclear Fuel in Finland (BRA)**

Time	Name	Designating Member State/ Organization
17:15 – 18:45	<b>M. Pohjonen</b>	Posiva Solutions
	<b>P. Aalto</b>	Posiva Solutions
	<b>P. Rantamaki</b>	Posiva Oy
	<b>B. Pastina</b>	Posiva Oy
	<b>T. Pere</b>	Posiva Oy

## THURSDAY, 4 November 2021

**08:30–12:00**     **SESSION 6:**  
**Integrated Waste Management**

**Chair:**            **Wolfgang Neckel, Austria**

**Co-Chair:**        **Francesco Galluccio, Italy**

**Rapporteur:**     **Lisa Maxwell, United Kingdom**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
08:30	<b>W. Neckel</b>	Austria	Opening Remarks	
08:35	<b>J. McKinney</b>	United Kingdom	Keynote Speech: What is Integrated Waste Management and why we should use it? A View from the UK's Nuclear Decommissioning Authority	303
08:55	<b>T. Rakitskaya</b>	Russian Federation	Integrated Waste Management in the Russian Federation	301
09:15	<b>S. Ali</b>	Pakistan	Development of National Integrated Radioactive Waste Management Infrastructure in Pakistan	43
09:35	<b>Z. Drace</b>	Serbia	Prospects of Integrated Waste Management Planning	313
09:55	<b>Coffee Break and E-Posters</b>			
10:25	<b>F. Demarkar</b>	Canada	Integration of Waste Management – going beyond Technical Aspects	311
10:45	<b>V. Wasselin</b>	France	The Solutions Strategy: The Need for a Global, Consistent, and Proportionate Approach to Radioactive Waste Management	178
11:05	<b>H. Asano</b>	Japan	Study on Advanced Nuclear Energy System Based on the Environmental Impact of Radioactive Waste Disposal	193
11:35	<b>H. Fei</b>	Australia	Young Professional Showcase Lead: Site Characterization Inputs to Safety Case Development for Australia's National Radioactive Waste Management Facility	150
11:40	<b>Panel Discussion and Closing</b>			



**12:15 – 13:15    SIDE EVENT:  
Beishan Underground Research Laboratory in China (BRA)**

Time	Name	Designating Member State/ Organization
12:15 – 13:15	<b>J. Wang</b>	Beijing Research Institute of Uranium Geology (BRIUG)
	<b>L. Chen</b>	Beijing Research Institute of Uranium Geology (BRIUG)

**13:30 – 17:00    SESSION 7:  
Multinational Cooperation in Radioactive  
Waste Management**

**Chair:**            **Ewoud Verhoef, Netherlands**  
**Co-Chair:**      **Hernan Castro, Argentina**  
**Rapporteur:**    **Haeryong Jung, Rep. of Korea**

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
13:30	<b>E. Verhoef</b>	Netherlands	Opening Remarks	
13:35	<b>M. Krause</b>	IAEA	Keynote Speech	
13:55	<b>L. Theodon</b>	EURAD (EC Programme)	EURAD: A Step Change in European Joint Collaboration Towards Safe Radioactive Waste Management	96
14:15	<b>S. Morgan</b>	Western European Nuclear Regulators Association (WENRA)	WENRA's Safety Reference Levels Contribute to Continuous Improvements and Harmonisation of Regulatory Approaches for Radioactive Waste Management in many European Countries	230
14:35	<b>K. Mrabit</b>	Morocco	The Obligation of Multinational Cooperation to promote and Advance the Safety of Spent Fuel and Radioactive Waste Management	76
14:55	<b>Coffee Break and E-Posters</b>			
15:25	<b>M. Pieraccini</b>	WNA	Material and Waste Management Strategies Considerations for Decommissioning	296
15:45	<b>R. Tadesse</b>	OECD/NEA	The Nuclear Energy Agency Activities in the Area of Radioactive Waste Management, Decommissioning Nuclear Installation and Legacy Management	306
16:05	<b>O. Miasnykov</b>	Ukraine	International Cooperation within Radwaste	299

Time	Name	Designating Member State/ Organization	Title of Paper	Paper No.
			Management Projects at Chernobyl NPP	
16:25	<b>C. Wighton</b>	United Kingdom	Adoption and Implementation of an Integrated Waste Management Strategy to Support and Deliver the Next Generation of Young Professionals in the Remediation of The UK's Nuclear Legacy.	155
16:30	<b>Panel Discussion and Closing</b>			

**17:15 – 18:45 SIDE EVENT:  
Collaborative Research and Innovation in RWM in the  
Euratom Community (BRA)**

Time	Name	Designating Member State/ Organization
17:15 – 18:45	<b>S. Ben Hadj Hassine</b>	European Commission
	<b>R. Winkler</b>	Commissariat à l'énergie atomique (CEA), France
	<b>M. Morichi</b>	Costruzioni Apparecchiature Elettroniche Nucleari SpA (CAEN), Italy
	<b>E. Holt</b>	VTT Technical Research Centre of Finland Ltd, Finland
	<b>L. Theodon</b>	Agence Nationale pour la Gestion des Déchets Radioactifs (Andra), France
	<b>A. Banford</b>	National Nuclear Laboratories, United Kingdom

**FRIDAY, 5 November 2021**

**09:00-12:00 CLOSING SESSION**

Time	Name	Designating Member State/ Organization	Title
09:00	<b>F. Dragolici</b>	Scientific Secretaries, IAEA	Opening Address
	<b>G. Nieder-Westermann</b>		
	<b>D. G. Benett</b>		
	<b>A. Guskov</b>		
09:05	<b>S. Utkin</b>	Russian Federation	Reports of the Session Chairs
	<b>C. Tweed</b>	United Kingdom	
	<b>M. Lindberg</b>	Sweden	
	<b>C. Van Drunen</b>	Canada	
	<b>S. Ali</b>	Pakistan	
	<b>W. Neckel</b>	Austria	
	<b>E. Verhoef</b>	Netherlands	
10:15	<b>P. Landais</b>	High Commissioner for Atomic Energy, CEA	Opportunities for Science and Technology Advancements in Radioactive Waste Management
10:40	<b>Coffee Break</b>		
11:30	<b>C. Xerri</b>	DIR – NEFW	Young Professional's Future in Radioactive Waste Management
11:10	<b>K. Wheeler</b>	United Kingdom	Chair and Co-Chair Summary
	<b>M. Naeem</b>	Pakistan	
11:30	<b>P. Johnston</b>	A/DDG – NS	Closing Remarks

Time	Name	Designating Member State/Organization	Title
11:50	<b>M. Chudakov</b>	DDG – NE, IAEA	Closing Remarks

**13:30 – 15:00 YOUNG PROFESSIONAL EVENT:  
Looking to a Sustainable Future (Young Professionals  
Feedback) (BR/A)**

Time	Name	Organization
13:30 – 15:00	<b>C. Van Drunen</b>	Canada
	<b>M. Naeem</b>	Pakistan
	<b>L. Frizzell</b>	Canada
	<b>P. Landais</b>	France

## Poster Presentations

**MONDAY, 1 NOVEMBER 2021**

14:55–15:25

**POSTER SESSION 1:  
National Programmatic Perspectives**

**MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	15:00	11	<b>S. Esseyin</b>	Nigeria	National Strategy and Planning for the Safe and Sustainable Management of Radioactive Waste and Spent Nuclear Fuel
2	15:00	16	<b>S. Gezer</b>	Turkey	Challenges of Newcomers in Development of Radioactive Waste Management
3	15:00	22	<b>V. Petrov M. Ojovan</b>	Russian Federation	On Expedience and Safety Of High-Level Radioactive Waste Borehole Disposal
4	15:00	33	<b>M. M. Win</b>	Myanmar	Regulatory Framework for Radioactive Waste Management in Myanmar
5	15:00	41	<b>S. Ali</b>	Pakistan	Radioactive Waste Management Approaches in Pakistan – Legal Framework, Policies and Strategies
6	15:00	52	<b>R.Piquero</b>	Philippines	Development of Spent Fuel and Radioactive Waste Management Strategy for the Proposed Nuclear Energy Program in the Philippines
7	15:00	55	<b>V. Igin</b>	Russian Federation	Creation of the final system for the Isolation of Radioactive Waste in the Russian Federation
1	15:05	58	<b>K. Kiegiel</b>	Poland	Spent fuel and radioactive waste management in the HTGR fuel cycle - Polish Perspective
2	15:05	60	<b>M. S. Rahman</b>	Bangladesh	Solid Radioactive Waste Management of Atomic Energy Centre Dhaka, Bangladesh and its Implication to Worker & Public Safety
3	15:05	70	<b>K. Mrabit J. El Mabtoul</b>	Morocco	Moroccan Experience on radioactive Waste Management
4	15:05	71	<b>C. Ussawaphuchai</b>	Thailand	Radioactive waste management and regulation under the new Nuclear Energy for Peace Act, Thailand
5	15:05	75	<b>S. Fayyaz</b>	Pakistan	Role of Regulatory Body in Controlling Radioactive Discharges from Multi-Unit Nuclear Power Plants Site in Pakista

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
6	15:05	78	<b>H. Nursetya Putra</b>	Indonesia	Study on The Radioactive Burnable Waste Management of Nuclear Medicine Facilities in Indonesia: Case of Sardjito Hospital's Waste
7	15:05	82	<b>E. Wondimagegn</b>	Ethiopia	Assessment of the Current State of Disused Sealed Radioactive Sources Management Options from Different Applications in Ethiopia
1	15:10	83	<b>V. Zahrawati</b>	Indonesia	Analysis Of Indonesian Regulatory Infrastructure For Radioactive Waste Management And Its Implementation
2	15:10	88	<b>J. Gomez Nunez</b>	Dominican Republic	Radiological Cleaning of Rubble Contaminated with Ra-226; Important Milestone in the Dominican Republic
3	15:10	91	<b>M. Heath</b>	United States of America	U.S. Nuclear Regulatory Commission Approach to Very Low-Level Radioactive Was
4	15:10	119	<b>L. Vondrovic</b>	Czech Republic	Multicriterial Site Assessment of Potential Deep Geological Repository Sites in Czech Republic: Integration of Safety, Technical Feasibility and Environmental Approach
5	15:10	126	<b>S. Chanyotha</b>	Thailand	Multicriterial Site Assessment of Potential Deep Geological Repository Sites in Czech Republic: Integration of Safety, Technical Feasibility and Environmental Approach
6	15:10	130	<b>L. Done</b>	Romania	Management of the Concrete and Cast Iron Waste Resulted from the Decommissioning Of The VVR-S Nuclear Research Reactor Block from IFIN-HH
7	15:15	156	<b>T. Faß</b>	Germany	The Search for a Geological Repository Site in Germany – Its Unique Features and the Safety Case
1	15:15	169	<b>F. Emanuel</b>	Germany	The Joint Effort Journey to Finding a Deep Geological Repository for German High-Level Waste (International Experiences and Regulatory Framework Concerning the Science-Based Site Selection Process in Germany)
2	15:15	174	<b>J. Ahlswede</b>	Germany	Regulatory Research for Nuclear Waste Management - An Interdisciplinary Approach

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
3	15:15	185	<b>G. Menard</b>	Netherlands	Dutch Legacy Waste Project, An Overview from the Regulator
4	15:15	195	<b>C. Soontrapa</b>	Thailand	Radioactive Waste Management Facility Regulation in Thailand: History and Challenge
5	15:15	197	<b>N. Prasertchiewchan</b>	Thailand	Challenges of implementing Thailand's Policy and Strategy for Management of Radioactive Waste
6	15:15	205	<b>H. Kato</b>	Japan	Study on the Fast Reactor System Characteristics in the Transition Period from LWR to FR
7	15:15	222	<b>A. Jackson</b>	United Kingdom	Magnox TRS Drums: A First of A Kind Non-Routine Disposal at the UK's Low Level Waste Repository
1	15:20	238	<b>E. Akueche</b>	Nigeria	Radioactive Waste Management in Nigeria – Programmatic Perspectives
2	15:20	241	<b>M. Leier</b>	Estonia	Establishing a radioactive waste repository in Estonia
3	15:20	261	<b>B. Hedberg</b>	Sweden	Implementation of National Strategies for Radioactive Waste Management in an Increasingly International Context – Opportunities and Challenges from a Regulatory Perspective
4	15:20	272	<b>C. Nattie</b>	Jamaica	Establishing a National Waste Management Strategy: Challenges and Experience of a New Regulatory Body
5	15:20	279	<b>T. Randriamora</b>	Madagascar	National Perspectives of Radioactive Waste Management
6	15:20	282	<b>L. Mathieu</b>	France	The DEMAIN Project: An Academic Research Center on Nuclear Dismantling and Decommissioning
7	15:20	285	<b>R. Touhami</b>	Morocco	Moroccan Experience on Managing Radioactive Waste

**TUESDAY, 2 NOVEMBER 2021****09:55–10:25****POSTER SESSION 2:  
Implementation of Waste Management  
Strategies****MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	10:00	29	<b>A. Alsabbagh</b>	Jordan	Dismantling and Removal of Cs-137 Blood Irradiator from Jordanian Hospitals
2	10:00	37	<b>D. Wu</b>	People's Rep. of China	An Introduction to the New Near Surface Disposal Repository in China
3	10:00	51	<b>D. Murlis</b>	Russia	Assessment of Completeness and Sufficiency of Ongoing Research Activities in Underground Research Laboratory of the Nizhnekansky Massif
4	10:00	63	<b>L. Al Attar</b>	Syria	Management of Disused Sealed Radioactive Sources in Syria
5	10:00	73	<b>J. Iqbal</b>	Pakistan	Abstract - Regulation of Sealed Radioactive Sources in Pakistan
6	10:00	74	<b>J. Iqbal</b>	Pakistan	Licensing of PINSTECH Pre-Disposal Radioactive Waste Management Facility - PNRA Experience
7	10:00	104	<b>V. Gedevanishvili</b>	Georgia	Development of National Infrastructure for Radioactive Waste Management (Georgian Case)
1	10:05	105	<b>E. Glover</b>	Ghana	The Borehole Disposal System - A Safe Disposal Option for Management of Disused Sealed Radioactive Sources
2	10:05	108	<b>M. Zhemzhurov</b>	Belarus	Conceptual Design of Disposal Facility for Very Low-Level, Low-Level and Short-Lived Intermediate-Level Radioactive Waste of The Belarusian NPP
3	10:05	128	<b>B. Obreja</b>	Romania	Evolution of The Environmental Monitoring Program in 40 Years of Operation of the Low and Intermediate Radioactive Waste Repository Baita Bihor / Romania
4	10:05	173	<b>J. F. Beyala Ateba</b>	Cameroun	Regulatory and Infrastructural Framework for Radioactive Waste Management in Cameroon
5	10:05	183	<b>M.Gaelens</b>	Belgium	Dismantling of A Radiopharmaceutical Production Plant: Waste Management Strategy and Achievements



Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
6	10:05	190	<b>M. Nasta</b>	Italy	Modular and Transportable Conditioning Systems For LLW/ILW – Sogin Experience
7	10:05	198	<b>W. Katekaew</b>	Thailand	Pre-Decommissioning of Bangkok Radioactive Waste Incineration Plant
1	10:10	207	<b>A. Markopoulos</b>	Greece	Development of a Non-Destructive Gamma Spectrometry Technique for Validation of Neutron Activation Calculations
2	10:10	208	<b>D. Mavrikis</b>	Greece	Development of a Non-Destructive Gamma Spectrometry Technique for Optimization of Metallic Waste Characterization
3	10:10	233	<b>J. Wang</b>	People's Rep. of China	The Development of Beishan Underground Research Laboratory for Geological Disposal of HLW In China
4	10:10	245	<b>C. Scheib</b>	United Kingdom	Implementing Optimised Waste Management for Nuclear Site Decommissioning – On-Site Disposal Technical Learning
5	10:10	265	<b>O. Rodríguez</b>	Cuba	Regulatory Experiences in Policies and Strategy Implementation for Radioactive Waste and Disused Sources Management
6	10:10	274	<b>M. Keskula</b>	United States of America	End-Of-Life Considerations During the Transition to Alternative Technologies
7	10:10	276	<b>M. Guy</b>	United Kingdom	Demonstration of an End-To-End Process for Decommissioning ILW Waste
1	10:15	290	<b>W. Neckel</b>	Austria	Reconditioning of Historic Radioactive Waste in Austria - Experiences with And Status of the Project
2	10:15	298	<b>I. Gisca</b>	Republic of Moldova	Perspectives of Decommissioning and Waste Processing of Old Radon-Type Near-Surface Repository
3	10:15	291	<b>M. Vickerd</b>	Canada	Integrated Waste Strategy for Canadian Nuclear Laboratories

**TUESDAY, 2 NOVEMBER 2021**

14:55–15:25

**POSTER SESSION 3:  
Solutions for Specific Wastes****MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	14:55	5	<b>S. Mohd Fadzil</b>	Malaysia	Waste Solidification Using Crt Glass for Retardation of Hazardous Elements in Spent Resin
2	14:55	12	<b>E. Lazzaretti Cordova Campelo</b>	Brazil	Uranium Recovery from Liquid Waste Composed of Uranyl Nitrate Solution
3	14:55	13	<b>A. Dawood</b>	Ghana	Safety and Security of Radioactive Sources: The Role of the Radioactive Waste Management Centre of Ghana
4	14:55	19	<b>C. Gao</b>	People's Rep. of China	Progress on the Management of DSRs at China Institute for Radiation Protection
5	14:55	26	<b>M. Haghi</b>	Iran	Control & Management of Nuclear Waste Water with a Novel Nano technology Method
6	14:55	32	<b>M. De Las Mercedes Salgado Mojena</b>	Cuba	Management of Disused Radioactive Sources from the Irradiation Facility Product I in Cuba
7	14:55	56	<b>F. Soares Pereira</b>	Brazil	Waste Management in a Uranium Enrichment Plant
1	15:00	62	<b>O. Farid</b>	Egypt	Chemical Durability and Structure Analysis of Simulated Radioactive Waste Glasses
2	15:00	65	<b>A. K.B. Zahari</b>	Malaysia	Segregation and Disposal of Legacy Mixed Organic Liquid Waste in Malaysia
3	15:00	67	<b>L. Fuks</b>	Poland	Sorption on Inorganic Sorbents Supported by Ultrafiltration - Hybrid Method for Treatment of Radioactive Liquid Waste
4	15:00	68	<b>L. Fuks</b>	Poland	Sorption of Selected Radionuclides From Liquid Radioactive Wastes by Sorbents of the Biological Origin
5	15:00	69	<b>M. Letizia Cozzella</b>	Italy	Characterization and Preliminary Study for Solidification of Organic Alpha-Contaminated Liquid Waste
6	15:00	87	<b>E. Abedi</b>	Iran	Development of Mid and Long term Strategies for TRR Spent Fuels Dry Storage

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
7	15:00	93	<b>A. Miśkiewicz</b>	Poland	Treatment of Liquid Radioactive Waste Containing Organic Substances
1	15:05	95	<b>A. Šimonis</b>	Lithuania	Decommissioning of Radon Type Radioactive Waste Storage Facility in Lithuania
2	15:05	97	<b>B. Zlobenko</b>	Ukraine	Effects of Thermal Load on Behavior of Cherkasy Bentonite as a Buffer Material
3	15:05	112	<b>M. Mendoza</b>	Chile	Liquid Radioactive Waste Treatment – Volume Reduction in Solution that Containing Uranyl Nitrate
4	15:05	114	<b>L. Coquard</b>	Germany	Non-destructive Material Characterization of Radioactive Waste Packages with QUANTOM®
5	15:05	115	<b>P. J. Hiller</b>	United Kingdom	Radioactive Waste Sampling for Characterisation: A Bayesian Upgrade.
6	15:05	122	<b>A. Varlakov</b>	Russian Federation	The Impact of Radiation Loads on the Structure and Properties of the Cement Compound as a Promising Matrix for the Immobilization of High-Level Waste
7	15:05	123	<b>D. Böhm</b>	Germany	Processing Design for a Pyrochemical-Distillative Recovery Alternative in Nuclear Waste Management
1	15:10	133	<b>M. Fritzsche</b>	Germany	Improvement of Accuracy in Waste Characterisation By Applying Innovative Techniques (ASGS)
2	15:10	136	<b>A. Fernandez Zuvich</b>	Argentina	One Step Low Temperature Thermochemical Process in Air at Atmospheric Pressure to Denitrate a Simulated HLLW Without or with Addition of an Aluminoborosilicate Glass Powder
3	15:10	137	<b>H. A. Castro</b>	Argentina	Pyrolysis and High Performance Plasma Treatment applied for the Treatment of Spent Ion Exchange Resins
4	15:10	145	<b>M. Taylor</b>	France	Strategies for the Management of Graphite Waste Arising from the Decommissioning of Ungg Reactors
5	15:10	148	<b>E. Ostashkina</b>	Russian Federation	Pilot-Industrial Conditioning of Spent Radioactive Ion-Exchange Resins

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
6	15:10	149	<b>A. A. Chavez</b>	Argentina	Hardness behavior of U3O8 pellets: An option for the Management of Research Reactor Spent Fuel
7	15:10	152	<b>S. Kizhakke Muthanamveedu</b>	India	Management of Liquid Radioactive Effluents from Hospitals where Public Sewage System is not established.
1	15:15	153	<b>E. Phillip</b>	Malaysia	Palm oil fuel ash (POFA)- Supplemented Cementitious Material for Containment of Radium
2	15:15	170	<b>C. J. Guembou Shouop</b>	Cameroon	Monte Carlo Forecast for DSRS Management Optimization
3	15:15	175	<b>A. Allen</b>	United Kingdom	Novel technology developments for waste Condition Monitoring & Inspection by Sellafield Ltd through collaboration with the supply chain
4	15:15	177	<b>F. Galluccio</b>	Italy	Promising Pre-Disposal Solutions to Manage Spent Radioactive Ion-Exchange Resins
5	15:15	179	<b>F. Galluccio</b>	Italy	Electrochemical Decontamination of Radioactive Solutions from PHADEC-Based Processes Enhanced by Addition of Co-Precipitation Agents
6	15:15	181	<b>A. Ioannidou</b>	Greece	Management of Co-57 & Ge-68/Ga-68 Sealed Radioactive Sources that are used for Calibration of Nuclear Medicine Systems
7	15:15	184	<b>E. Mossini</b>	Italy	Impurities Characterization to Support Decommissioning and Management of Irradiated Graphite Waste
1	15:20	194	<b>A. C. Yildirim</b>	Japan	Characterization and Investigation on Long-Term Stability of Sodium Activated Metakaolin-Based Geopolymers
2	15:20	203	<b>N. Atherton</b>	United Kingdom	Taking A Lifecycle View for the Management of Legacy Metallic Fuel
3	15:20	209	<b>C. Muanglay</b>	Thailand	Dismantling and Safe Management of Ionisation Smoke Detectors and Lightning Preventors Containing Radioactive Sources in Thailand
4	15:20	210	<b>J. Novita</b>	Indonesia	Lifetime of Long-Lived Nuclear Waste in Accelerator-Driven Subcritical Systems Undergoes Transmutation Process

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
5	15:20	309	<b>A. Wiebert</b>	Sweden	Retrieving Legacy Waste From The Swedish Geological Repository For Short-Lived Waste
6	15:20	221	<b>A. Nakagawa</b>	Japan	Overall Optimization of Radioactive Waste Processing and Disposal for Problematic Waste Management
7	15:20	223	<b>S. Issarapanacheewin</b>	Thailand	Management of Radioactive Contaminated Electric Arc Furnace Slag Using Cement Immobilization Method
1	15:25	226	<b>J. Ruan</b>	People's Rep. of China	Radioactive Waste Incineration Technology of China Institute for Radiation Protection
2	15:25	236	<b>M. Hayes</b>	United Kingdom	The Study of Alternative Encapsulants for the Treatment of Intermediate Level Radioactive Waste
3	15:25	258	<b>R. Kumari Pilania</b>	India	Microwave Assisted Synthesis of Perovskite Ceramic Waste Form
4	15:25	268	<b>N. Kim</b>	Republic of Korea	Choline Chloride-Based Deep Eutectic Solvents as an Alternative Decontamination Agent for Radioactive Metal Waste
5	15:25	277	<b>L. Van Velzen</b>	Netherlands	Development of a Catalogue of Characterization Methodologies for Demonstrating Compliance with Waste Acceptance Criteria
6	15:25	281	<b>B. Isaac</b>	United States of America	A Prototypic Design Of Deployable Mobile Hot Cell For Safe And Remote Handling Of Radioactive Sources
7	15:25	293	<b>E. Mossini</b>	Italy	Innovative Applications Of Abrasive Waterjet For Irradiated Graphite Dismantling And Decommissioning
1	17:05	211	<b>N. El Hayat Hammoud</b>	IAEA	The IAEA Database on Radioactive Devices Containing Depleted Uranium (DU) as Radiation Shielding

**WEDNESDAY, 3 NOVEMBER 2021****09:55–10:25****POSTER SESSION 4:  
Role of the Safety Case Development in  
Supporting Radioactive Waste  
Management****MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	10:00	2	<b>N. Harun</b>	Malaysia	Geological Environments of the Kledang Range, Perak Triassic Crystalline Rock in Supporting Safety Case Development for Radioactive Waste Disposal
2	10:00	15	<b>R. G. Castillo</b>	Cuba	Experience on the Application of Safety Assessment Tools to the Radioactive Waste Management in Cuba
3	10:00	31	<b>N. Gonzalez Rodriguez</b>	Cuba	Radiation Protection for the Radioactive Waste Management in Cuba
4	10:00	42	<b>S. Ali</b>	Pakistan	Assessment of Human Intrusion and Identification of R&D needs for Near Surface Disposal Facility of Pakistan – A Part of Safety Case
5	10:00	44	<b>M. T. Mirza</b>	Pakistan	Proposed Disposal Solution for Activated Calandria Tubes and Pressure Tubes of KANUPP-1, Pakistan
6	10:00	45	<b>M. T. Mirza</b>	Pakistan	Application of Artificial Intelligence for Optimized and Cost-effective Disposal of Radioactive Waste
7	10:00	49	<b>A. Panlaqui</b>	Philippines	Safety Assessment of the Dost-Pnri Radioactive Waste Management Facility Receiving Area Using the Safety Assessment Framework (Safran) Software
1	10:05	57	<b>A. Tkachenko</b>	Russian Federation	Geological Disposal Programme in the Russian Federation: An overview
2	10:05	80	<b>I. Aaltonen</b>	Finland	Understanding the Brittle Deformation of the Host Rock – An Example of Investigations needed for the Safety Case Development Supporting Radioactive Waste Management
3	10:05	85	<b>T. Son Nguyen</b>	Canada	Regulatory Research in Preparation for the Review of Safety Cases for Geological Disposal of Used Nuclear Fuel

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
4	10:05	90	<b>J. Liu</b>	People's Rep. of China	Derivation of Activity Concentration Upper Limits for Low Level Solid Radioactive Waste
5	10:05	101	<b>P. Essel</b>	Ghana	Post-Closure Safety Assessment for Borehole Disposal of Disused Sealed Radioactive Sources in Ghana
6	10:05	154	<b>L. Payne</b>	United Kingdom	Claims, Arguments & Evidence (CAE) For Criticality Safety as An Example of Environmental Safety Case (ESC) Development.
7	10:05	157	<b>C. Briancourt</b>	France	Waste Shielded Casks Transfer by Funicular from the Surface to Disposal Level in Cigéo
1	10:10	189	<b>Z. Radakovic-Guzina</b>	United States	Numerical Study of Performance of Placement Rooms for Deep Geological Isolation of High-Level Radioactive Waste
2	10:10	232	<b>I. Kaissas</b>	Greece	Classifying the Radiological Hazard due to Fire on Disused Sealed Radioactive Sources and Stored Radioactive Materials in Greece
3	10:10	237	<b>A. Kontula</b>	Finland	Graded Optimisation of the Disposal Concept and its Consideration in the Safety Case
4	10:10	161	<b>D. Garbutt</b>	United Kingdom	Towards understanding the impact of an Excavation Damaged Zone in a range of illustrative geological environments and implications for backfill and waste package evolution
5	10:10	292	<b>M. Vickerd</b>	Canada	Disposal Safety Case for Near Surface Disposal Facility

## WEDNESDAY, 3 NOVEMBER 2021

14:55–15:25

**POSTER SESSION 5:  
Socio-Economic Aspects of Radioactive  
Waste Management Programmes**

**MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	15:00	27	<b>N. N. Win</b>	Myanmar	National Radioactive Waste Management Infrastructure in Myanmar
2	15:00	30	<b>S. H. Putero</b>	Indonesia	Educating National Human Resources to Handle Radioactive Waste as a Key Success for Public Acceptance : Universitas Gadjah Mada's Experience
3	15:00	84	<b>F. Bernier</b>	Belgium	SITEX Benchmark on Safety Case Reviewing Approaches
4	15:00	144	<b>H. Zhang</b>	People's Rep. of China	A Preliminary Publicity Program for the early Construction Stage of URL for HLW Disposal in China
5	15:00	162	<b>H. J. Steinmetz</b>	Germany	The Relevance of Human Factors in Sustainable Nuclear Waste Management – Promoting Meta-Competences as part of the Holistic Education of Young Academics
6	15:00	164	<b>E. Butty</b>	France	Socio-Economic Assessment of the Cigéo Project
7	15:00	217	<b>S. Sucipta</b>	Indonesia	Geological And Non Geological Criteria Of Site for Near Surface Disposal in Indonesia
1	15:05	252	<b>J. Lindberg</b>	United Kingdom	Humanising Nuclear Waste: Addressing the Legacy of Communication Failures and Building Sustainable Communication Strategies
2	15:05	266	<b>J. Reed</b>	United Kingdom	Sellafield: A Case Study of the Social Licence to Operate
3	15:05	287	<b>F. Diaz-Maurin</b>	Spain	The Socio-Technical Multi-Criteria Evaluation (STMCE) Method for Radioactive Waste Management Strategies: From the U.S. Experience to Other Applications



**THURSDAY, 4 NOVEMBER 2021****09:55–10:25 POSTER SESSION 6:  
Integrated Waste Management****MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	10:00	40	<b>I. Kutina</b>	Ukraine	Management of the Accident-Origin Radioactive Waste of the Destroyed 4-Th Power Unit of the Chornobyl Npp in view of the New Safe Confinement Operation
2	10:00	121	<b>P. Skelton</b>	United Kingdom	Risk Based Approach to the Packaging of Intermediate Level Waste
3	10:00	134	<b>R. Harris</b>	United Kingdom	Waste Package Development - Focus on the right Container for the Right Job
4	10:00	140	<b>A. Laker</b>	United Kingdom	Design and Development of a RCF to Process Pond Skips
5	10:00	171	<b>A. Rivonkar</b>	France	Study Of Existing Chemical Decontamination Methods Of Radioactive Metals With a View on Their Optimization
6	10:00	180	<b>L. Leong</b>	France	Fast, accurate and simple modelling of Complex Objects with Innovative ISOCS-based Service Tool for Cost-Effective Waste Management
7	10:00	199	<b>A. Wijayanto</b>	Indonesia	Integrated Applications of BATAN Radioactive Waste Management Services (eLIRA) and BAPETEN Licensing and Inspection System Services (BALIS)
1	10:05	204	<b>R. Hamada</b>	Japan	Enviornmental Impact of Radioactive Waste Disposal in Advanced Nuclear Energy Systems: Radiation Impact Evaluation of Nuclide Migration and Human Intrusion for Geological Disposal considering Nuclear Fuel Cycle Conditions
2	10:05	235	<b>H. W. Butt</b>	Pakistan	In-situ Drying For Major Volatility Containment in Melter during Vitrification of Low and Intermediate Level Waste (LILW)
3	10:05	246	<b>M. Lindberg</b>	Sweden	The Usage of Scaling Factors for Determining Nuclide Content for Clearance or Disposal

**THURSDAY, 4 NOVEMBER 2021**

**14:55–15:25**

**POSTER SESSION 6:  
Multinational Cooperation in Radioactive  
Waste Management**

**MO2 Foyer Area**

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
1	15:00	61	<b>D. Mallants</b>	Australia	Deep borehole Disposal of Intermediate-Level Waste: Progress from Australia's RD&D Project
2	15:00	72	<b>C. McCombie</b>	Switzerland	Multinational Repositories: Past, Present and Future
3	15:00	77	<b>K. Magkliveras</b>	Greece	Legal and Regulatory Aspects of Regional Radioactive Waste Management Regimes: Africa and the South Pacific Compared
4	15:00	79	<b>J. Birkholzer</b>	United States of America	International Collaboration in the U.S. Disposal Research Program: Advances Made in Testing and Predicting Coupled Processes in Engineered & Natural Barriers
5	15:00	86	<b>A. Rajkumari</b>	Germany	The International Master Program on Nuclear Applications at FH Aachen-Nuclear Waste Management as a Part of Holistic Education. A Student Contribution to the IAEA International Conference on Radioactive Waste Management
6	15:00	100	<b>H. Kristiansen</b>	Norway	Deep Borehole Disposal as an Avenue for Multinational Collaboration
7	15:00	107	<b>E. Fanchini M. Morichi</b>	Italy	The Euratom Project MICADO and its Innovative Characterization Process of the Nuclear Waste Packages
1	15:05	116	<b>H. Shames</b>	Libya	The IAEA's Role in Advancing Radioactive Waste Management Practices in Libya
2	15:05	131	<b>E. Niederleithinger</b>	Germany	Digital Tools for Cemented Waste Package and Facility Monitoring and Prediction
3	15:05	187	<b>J. Lepert I. Madar</b>	France	Main Challenges and Lessons Learned of a Multinational Cooperation in Radioactive Source Removal and Waste Management Projects
4	15:05	212	<b>C. Streeper</b>	United States of America	US-Mexico Cooperation on Source Repatriation

Screen No.	Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
5	15:05	218	<b>R. Plukienė</b>	Lithuania	Classification of the Metallic Radioactive Waste Streams of the Different Types of Reactors in PREDIS
6	15:05	247	<b>E. Holt</b>	Finland	International Cooperation on Predisposal Waste Management Innovation in the PREDIS Project, addressing Technology Gaps and Common Industrial Challenges
7	15:05	250	<b>C. Parker</b>	United Kingdom	Putting Deep Borehole Disposal of Nuclear Waste into Practice: The Challenges for the International Community
1	15:10	269	<b>M. Wittel</b>	Switzerland	Multinational Cooperation Initiative on Post-Closure Criticality Safety
2	15:10	20	<b>H. J. Steinmetz</b>	Germany	Key Aspects of Education and Knowledge Management in the Nuclear Sector of Germany
3	15:10	159	<b>D. Biriukov</b>	Russian Federation	Planning management of radioactive waste from decommissioning nuclear facilities using information and calculation models

## IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

STI/PUB/1799, Published: 2018	Status and Trends in Spent Fuel and Radioactive Waste Management
STI/PUB/1818, Published: 2018	Regulatory Control of Radioactive Discharges to the Environment   IAEA
STI/PUB/1825, Published: 2018	Options for Management of Spent Fuel and Radioactive Waste for Countries Developing New Nuclear Power Programmes   IAEA
STI/PUB/1758, Published: 2019	Predisposal Management of Radioactive Waste from the Use of Radioactive Material in Medicine, Industry, Agriculture, Research and Education   IAEA
STI/PUB/1822, Published: 2019	Waste from Innovative Types of Reactors and Fuel Cycles   IAEA
IAEA-TECDOC-1901, Published: 2020	INPRO Methodology for Sustainability Assessment of Nuclear Energy Systems: Waste Management   IAEA
IAEA-TECDOC-1904, Published: 2020	Development of a Common Framework for Addressing Climate and Environmental Change in Postclosure Radiological Assessment of Solid Radioactive Waste Disposal   IAEA
IAEA-TECDOC-1928, Published: 2020	Application of the Graded Approach to Post-closure Safety Assessment for the Disposal of Disused Sealed Radioactive Sources in Boreholes   IAEA
IAEA-TECDOC-1934, Published: 2020	Underground Disposal Concepts for Small Inventories of Intermediate and High Level Radioactive Waste   IAEA
STI/PUB/1900, Published: 2020	Costing Methods and Funding Schemes for Radioactive Waste Disposal Programmes   IAEA
STI/PUB/1904, Published: 2020	Strategies and Practices in the Remediation of Radioactive Contamination in Agriculture   IAEA
STI/PUB/1908, Published: 2020	Design Principles and Approaches for Radioactive Waste Repositories   IAEA
IAEA-TECDOC-1941, Published: 2021	Assessment of Radioactive Contamination in Urban Areas   IAEA
IAEA-TECDOC-1952, Published: 2021	A Preliminary Inventory and Assessment of Uranium Resources in Mine Wastes   IAEA
STI/PUB/1883, Published: 2021	Management of Residues Containing Naturally Occurring Radioactive Material from Uranium Production and Other Activities   IAEA

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Scientists interested in participating in any of the IAEA conferences should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

## **PUBLICATIONS**

### **Proceedings**

The proceedings of the conference containing all presentations and posters delivered at the conference, as well as the findings and recommendations, will be published by the IAEA as soon as possible after the conference.

### **Orders**

No registration fee is charged to participants but they are encouraged to order for themselves or on behalf of their supporting organization at least one copy of the proceedings. These can be obtained at a special price representing half the estimated sales price provided that they are ordered and paid for during the conference at the Conference Desk.

### **Other IAEA Publications**

All IAEA publications may be ordered directly from the Sales and Promotion Unit, International Atomic Energy Agency, P.O. Box 100, A-1400 Vienna, Austria.

Fax: (+43 1) 2600-29302

Email: [sales.publications@iaea.org](mailto:sales.publications@iaea.org)

Internet: <http://www.iaea.org/books>

## **FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA**

### **2021**

International Conference on the Safe and Secure Transport of Nuclear and Radioactive Materials, 13-17 December, Vienna, Austria

International Conference on the Safe and Secure Transport of Nuclear and Radioactive Materials (CN-280)

13-17 December, Vienna, Austria

### **2022**

First International Conference on Nuclear Law: The Global Debate (CN-299)

7-11 February, Vienna, Austria

International Conference on Fast Reactors and Related Fuel Cycles: Sustainable Clean Energy for the Future (FR22) (CN-291)

25-28 April, Beijing, China

Fifth International Conference on Nuclear Power Plant Life Management (CN-297)

16-19 May, Osaka, Japan

International Conference on Accelerators for Research and Sustainable Development: from Good Practices towards Socioeconomic Impact (CN-301)

23-27 May, Vienna, Austria

International Conference on Nuclear Knowledge Management and Human Resource Development: Challenges and Opportunities (CN-306)

13-16 June, Moscow, Russia

International Conference on the Safety and Security of Radioactive Sources (CN-295)

20-24 June, Vienna, Austria

International Symposium on Managing Land and Water for Climate-Smart Agriculture (CN-305)

25-29 July, Vienna, Austria

Second International Conference on Applications of Radiation Science and Technology (ICARST-2022) (CN-290)

22-26 August, Vienna, Austria

International Conference on Occupational Radiation Protection: Strengthening Radiation Protection of Workers – Twenty Years of Progress and the Way Forward (CN-300)

5-9 September, Geneva, Switzerland

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security: Enhancing Science and Adaptability in a Changing World Creating Perspective for a Young Generation (CN-307)

10-13 October, St Petersburg, Russia

International Conference on Topical Issues in Nuclear Installation Safety: Strengthening Safety of Evolutionary and Innovative Reactors Designs (CN-308)

18-21 October, Vienna, Austria

International Ministerial Conference on Nuclear Power in the 21st Century (CN-296)

26-28 October, Washington D.C. United States of America

Safeguards Symposium (CN-303)  
31 October-4 November, Vienna, Austria

International Conference on Operational Safety of Nuclear Power Plants (CN-284)  
21-25 November, Beijing, China

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2022)  
(CN-304)  
13-16 December, Vienna, Austria

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For information on forthcoming scientific meetings, please consult the IAEA web site:  
<http://www.iaea.org/events>