
NEA Workshop on the Management of Non-nuclear Radioactive Waste

Legnaro, Italy

2-4 May 2017

Workshop organisation

Workshop Chair

Demetre ZAFIROPOULOS - Istituto Nazionale di Fisica Nucleare – Laboratori Nazionali di Legnaro, Italy

Workshop Co-Chair

Daniel DILDAY - Argonne National Laboratory, USA

Workshop Secretariat

Edward LAZO - OECD Nuclear Energy Agency

Chiara GUIDO - OECD Nuclear Energy Agency

Daniela ZANE - Istituto Nazionale di Fisica Nucleare – Laboratori Nazionali di Legnaro, Italy

Programme Committee

Marios ANAGNOSTAKIS - National Technical University of Athens, Greece

G rard BRUNO - IAEA

Nadia CHERUBINI - ENEA, Italy

Christopher CLEMENT - ICRP

Mari GILLOGY - OECD Nuclear Energy Agency

Vladim r JURINA - Public Health Authority, Slovak Republic

Juliet LONG - Environment Agency, United Kingdom

Dimitris MITRAKOS - Atomic Energy Commission (EEAE), Greece

Minoru OHKOSHI - Japan Atomic Energy Agency (JAEA), Japan

Dana PANDOLFI - Canadian Nuclear Safety Commission, Canada

Thiagan PATHER - National Nuclear Regulator (NNR), South Africa

Aleksandr RAKHUBA - OECD Nuclear Energy Agency

Yoshiaki SAKAMOTO - Japan Atomic Energy Agency (JAEA), Japan

Michael SIEMANN - OECD Nuclear Energy Agency

Simos SIMOPOULOS - National Technical University of Athens, Greece

Ivana ZENATA - State Office of Nuclear Safety, Czech Republic

Workshop programme

DAY 1 2 MAY 2017	
8:10	<i>Transfer by bus from the centre of Padova to LNL (see timetable on workshop logistics)</i>
09:00 09:50	Registration
10:00 10:05 10:10	Welcome <ul style="list-style-type: none"> • OECD Nuclear Energy Agency (NEA) • Laboratori Nazionali di Legnaro (LNL) • Istituto Nazionale di Fisica Nucleare (INFN)
10:25	Workshop Overview and Objectives <i>The Workshop Chair and Co-Chair will provide a short overview of the intent, content and output of the workshop.</i> Chair: Demetre Zafiroopoulos, INFN Laboratori Nazionali di Legnaro, Italy Co-chair: Daniel Dilday, Argonne National Laboratory, USA
10:40	Session 1: General Aspects <i>This session will set the scene, providing an overview of the types and properties of non-nuclear waste, of the regulatory framework under which such waste is generated, the regulatory and operational aspects of waste management implementing organisations, and radiological and optimisation elements. The Session Chair and Co-Chair will briefly present an overview of the intent and content of the session.</i> Chair: Michael Siemann, NEA Co-chair: Mario Dionisi, ISPRA, Italy
10:50	1.1 Regulatory Framework for Non-Nuclear Waste Disposal Presenter: Juliet Long, Environment Agency, United Kingdom
11:10	1.2 Characterisation of Non-Nuclear Waste and its Sources Presenter: Douglas Chambers, ARCADIS, Canada
11:30	GROUP PHOTO and BREAK
12:10	1.3 Interim Storage, Regulation and Practical Aspects Presenter: João Henrique Garcia Alves, Instituto Superior Técnico, Portugal
12:30	1.4 Radiological and Emergency Management Aspects of Non-Nuclear Waste Disposal Installations Presenter: Ciara McMahon, Environmental Protection Agency, Ireland
12:50	1.5 Data, Information and Knowledge Management in Radioactive Waste Management - recent work of the NEA Presenter: Massimo Ciambrella, NEA
13:15	LUNCH (LNL Canteen)

14:30	<p>Session 2: National Approaches <i>This session will focus on the national physical, regulatory and operational statuses of non-nuclear waste management.</i> <i>The Session Chair and Co-Chair will briefly present an overview of the intent and content of the session and will describe existing international standards and guidance.</i></p> <p>Chair: Gerard Bruno, IAEA Co-Chair: Marco Ripani, INFN, Italy</p>
14:40	<p>2.1 National Circumstances and Approaches: Italy Presenter: Mario Dionisi, ISPRA, Italy</p>
15:00	<p>2.2 National Circumstances and Approaches: Norway Presenter: Mette Nielsen, Norwegian Radiation Protection Authority, Norway</p>
15:20	<p>2.3 National Circumstances and Approaches: France Presenter: Nicolas Solente, ANDRA, France</p>
15:40	<p>2.4 National Circumstances and Approaches: United States Presenter: Daniel Dilday, Argonne National Laboratory, USA</p>
16:00	BREAK
16:20	<p>2.5 National Circumstances and Approaches: Australia Presenter: John Templeton, Australian Radiation Protection and Nuclear Safety Agency, Australia</p>
16:40	<p>2.6 National Repository – Safe management of the Italian radioactive waste Presenter: Angelo Paratore, SOGIN, Italy</p>
17:00	<p>2.7 Options for the Disposal for Countries with Small Amounts of Radioactive Waste -Small Scale Disposal Facilities (SSDF) Presenter: Jörg Feinhals, TÜV NORD / DMT, Germany</p>
17:20	<p>Discussion in small groups <i>The participants will be divided into groups, each to discuss commonalities and differences in national approaches. Rapporteurs will take notes and facilitate discussions based on a pre-agreed set of framework questions.</i></p>
18:40	<p>END OF DAY 1 <i>Transfer by bus from LNL to the centre of Padova (see workshop logistics)</i></p>
20:30	Dinner at Caffé Pedrocchi, Padova

DAY 2
3 MAY 2017

09:10	<i>Transfer by bus from the centre of Padova to LNL (see timetable on workshop logistics)</i>
10:00	<p>Summary of Group Discussions <i>The lead rapporteur will briefly summarise the key points raised during the previous day's group discussions.</i></p>
10:20	<p>Session 3: Practical Aspects <i>This session will comprise the operational aspects of non-nuclear waste management, both from the radioactive waste management perspective and from the radiological protection perspective.</i> <i>The Session Chair and Co-Chair will briefly present an overview of the intent and content of the session.</i></p> <p>Chair: Edward Lazo, NEA Co-Chair: Dana Pandolfi, Canadian Nuclear Safety Commission, Canada</p>
10:30	<p>3.1 The Regulatory Aspects of Disposal Sites for Low-Level Radioactive Waste from the Non-Nuclear and Nuclear Sectors in England</p> <p>Presenter: David Nicholson, Environment Agency, United Kingdom</p>
10:50	<p>3.2 Planning and Preparation Approaches for Non-Nuclear Waste Disposal</p> <p>Presenter: Lucia Sarchiapone, LNL, Italy</p>
11:10	<p>3.3 Management Approaches to Minimise Non-Nuclear Waste</p> <p>Presenter: Gianluca Simone, Nucleco, Italy</p>
11:30	BREAK
11:55	<p>3.4 Operational and Radiological Aspects of Non-Nuclear Waste Conditioning and Disposal</p> <p>Presenter: Helen Simms, Augean, United Kingdom</p>
12:15	<p>3.5 Practical and Regulatory Aspects of Clearance and Exemption of Non-Nuclear Waste</p> <p>Presenter: Jörg Feinhals, TÜV NORD / DMT, Germany</p>
12:35	<p>3.6 Management of Mixed Waste - Aluminium and Asbestos: A planned and a non-planned waste management task</p> <p>Presenter: Hans-Frieder Beer, former Paul Scherrer Institute (PSI), Switzerland</p>
12:55	<p>3.7 Funding of Non-Nuclear Waste Management <i>Russian national RWM policy and strategy</i></p> <p>Presenter: Sergey Deryabin, Rosatom, Russian Federation</p>
13:15	LUNCH (LNL Canteen)

14:30	<p>Session 4: Case Studies <i>This session will provide specific case studies of waste management from different types of sources.</i> <i>The Session Chair and Co-Chair will briefly present an overview of the intent and content of the session.</i></p> <p>Chair: Juliet Long, Environment Agency, United Kingdom Co-Chair: Enrico Sartori, former NEA</p>
14:40	<p>4.1 IAEA approach for the safe management of non-nuclear radioactive waste</p> <p>Presenter: Gerard Bruno, IAEA</p>
15:00	<p>4.2 Managing Research Accelerator Waste</p> <p>Presenter: Luisa Ulrici, CERN</p>
15:20	<p>4.3 Managing Hospital and Medical Accelerator Waste</p> <p>Presenter: Carlo Bergamaschi, Campoverde, Italy</p>
15:40	<p>4.4 IAEA Perspective on Management of NORM Waste</p> <p>Presenter: Zhiwen Fan, IAEA</p>
16:00	<p>4.5 Managing Industrial Waste <i>Management of Non-Nuclear Radioactive Waste in Canada</i></p> <p>Presenter: Dana Pandolfi, Canadian Nuclear Safety Commission, Canada</p>
16:20	BREAK
16:40	<p>4.6 Managing Research Waste at Idaho National Laboratory</p> <p>Presenter: Stacy Nottestad, Idaho National Laboratory, USA</p>
17:00	<p>4.7 Valorisation of NORM Waste</p> <p>Presenter: Marios Anagnostakis, National Technical University of Athens, Greece</p>
17:20	<p>Discussion in small groups <i>The participants will be divided into groups, each to discuss commonalities and differences in national approaches. Rapporteurs will take notes and facilitate discussions based on a pre-agreed set of framework questions.</i></p>
18:30	<p>END OF DAY 2 <i>Transfer by bus from LNL to the centre of Padova (see workshop logistics)</i></p>

DAY 3
4 MAY 2017

09:10	<i>Transfer by bus from the centre of Padova to LNL (see timetable on workshop logistics)</i>
10:00	Summary of Group Discussions <i>The lead rapporteur will briefly summarise the key points raised during the previous day's group discussions.</i>
	Instrumentation and technical services for radioactive waste management and radiation detection <i>The workshop chair will introduce the sponsors that supported the event; the sponsors will briefly present their services and products.</i>
10:30	Campoverde
10:40	Else Nuclear
10:50	RadTech
11:00	Mirion Technologies
11:10	BREAK
11:30	Summary of Major Points Proposal for a collective statement Closing of the Workshop
12:00	Closing note by the host country Permanent Delegation of Italy to the OECD
12:05	Visit of the LNL Laboratory
13:15	LUNCH (LNL Canteen)
14:45	<i>Transfer by bus from LNL to the centre of Padova (see workshop logistics)</i>
15:30	Guided Walking Tour of Padova <i>(see workshop logistics)</i>
19:00	<i>A tour to discover the culture, art and scientific heritage of the city</i>
19:00	Guided Visit of Cappella degli Scrovegni
20:20	