

# International Conference on the **Safety of Radioactive Waste Management**

**21–25 November 2016  
Vienna, Austria**

**PROGRAMME**

Organized by the



**IAEA**

International Atomic Energy Agency

Organized by the



Held in cooperation with the  
European Commission



and the  
OECD Nuclear Energy Agency



## CONFERENCE CHAIRMAN:

Carl-Magnus Larsson  
Chief Executive Officer  
Australian Radiation Protection and Nuclear Safety Agency  
(ARPANSA), Australia

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## PROGRAMME COMMITTEE:

M. Abdel Geleel	Egypt
S. Barlow	UK
B. Batandjieva – Metcalf	EC
G. Bruno	IAEA
J. Heinonen	Finland
G. Kwong	NEA/OECD
S. Mayer	IAEA
M. Medici	Argentina
H. Rindo	Japan
R.A. Robbins	IAEA
C. Serres	France
S.R. Smith	USA
M. Vesterlind	Sweden

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## IAEA CONFERENCE SECRETARIAT:

Scientific Secretaries:	G. Bruno S. Mayer
Conference Rapporteur:	E. Warnecke
Conference Coordinators:	I. Kridtner M. Khaelss
Administrative Support:	K. Nussbaum A.-L. Mazauric

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## CONFERENCE LOCATION:

International Atomic Energy Agency  
Vienna International Centre (VIC)  
M Building (2<sup>nd</sup> floor)  
IAEA Boardroom A  
1400 Vienna, Austria  
Tel: (+43 1) 2600 21303  
**Conference website:**  
<http://www-pub.iaea.org/iaeameetings/50807/>

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<b>Working Language:</b>	English
<b>Resolutions:</b>	No resolutions may be submitted for consideration on any subject; no votes will be taken.

# TIMETABLE

## MONDAY, 21 November 2016

08:00 – 10:00 Registration and Distribution of Conference Material

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*Opening*

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**10:00 – 10:30** Opening Session

**10:30 – 11:10** Panel Introduction

**11:10 – 12:30** Panel Discussion

12:30 – 14:00 Lunch Break

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*Session 1: Policy & Strategy*

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**14:00 – 15:50** **Session 1: National Policy, Strategy and Framework for Radioactive Waste Management**

15:50 – 16:20 Coffee Break (sponsored)

**16:20 – 18:30** **Session 1: National Policy, Strategy and Framework for Radioactive Waste Management**

18:30 – 20:30 Welcome Reception (M Building)

## TUESDAY, 22 November 2016

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*Session 2: Predisposal*

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**09:00 – 10:50** **Session 2.a: Predisposal – Waste Processing**

10:50 – 11:20 Coffee Break (sponsored)

**11:20 – 12:30** **Session 2.a: Predisposal – Waste Processing**

12:30 – 14:00 Lunch Break

**14:00 – 15:50** **Session 2.b: Predisposal – Storage**

15:50 – 16:20 Coffee Break

**16:20 – 17:00** **Session 2.b: Predisposal – Storage**

17:00 – 18:00 General Discussion

## WEDNESDAY, 23 November 2016

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*Session 3: Disposal*

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**09:00 – 09:10** **Session 3: Introduction on Disposal**

**09:10 – 10:50** **Session 3.b: Disposal of Very Low Level Waste and Low Level Waste**

10:50 – 11:20 Coffee Break (sponsored)

**11:20 – 12:30** **Session 3.b: Disposal of Very Low Level Waste and Low Level Waste**

12:30 – 14:00 Lunch Break

**14:00 – 15:40** **Session 3.c: Disposal of Intermediate Level Waste**

15:40 – 16:10 Coffee Break

**16:10 – 17:00** **Session 3.c: Disposal of Intermediate Level Waste**

## THURSDAY, 24 November 2016

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*Session 3: Disposal*

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**09:00 – 10:30** **Session 3.a: Disposal of Disused Sealed Radioactive Waste**

10:30 – 11:00 Coffee Break (sponsored)

**11:00 – 12:30** **Session 3.d: Disposal of High Level Waste including Spent Nuclear Fuel Declared as Waste**

12:30 – 14:00 Lunch Break

**14:00 – 15:40** **Session 3.d: Disposal of High Level Waste including Spent Nuclear Fuel Declared as Waste**

15:40 – 16:10 Coffee Break

**16:10 - 16:40** **Session 3.d: Disposal of High Level Waste including Spent Nuclear Fuel Declared as Waste**

16:40 – 17:30 General Discussion

## FRIDAY, 25 November 2016

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### *Session 4: Post-Accident*

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**09:00 – 10:50**    **Session 4: Post-Accident Waste Management: Lessons learned and Preparedness**

10:50 – 11:20    Coffee Break

**11:20 – 12:15**    **Session 4: Post-Accident Waste Management: Lessons learned and Preparedness**

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### *Closure*

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**12:15 – 13:00**    **Panel Discussion**

**13:00 – 13:30**    **Closing Session**

## MOBILE CONFERENCE APPLICATION

(For smartphones and tablets)

### Android



### iPhone



Participants are encouraged to download the conference application (App) **IAEA Conferences and Meetings** available at *Google Play* and the *iTunes Store*. The QR codes above will take you right there. Once you have installed the App simply select this conference.

### Log in!

Many of the App features can be accessed without logging in. However to enjoy all the features of the App you will need to log in with your individual event code. This code was emailed to all registered participants approximately one week before the conference.

### App Features

The App has a number of very useful features. Inter alia it allows you to:

- See who is attending
- Message other participants (log in is required)
- Access PowerPoint presentations which have been released by their authors, abstracts of papers and posters
- View an up-to-date programme
- Receive announcements via push notifications

### Poster Presentations

#### Location: M Building

Each poster will be introduced at the respective session by the Co-chairperson.

As far as possible, authors are requested to be present at their posters during the coffee breaks for discussion with interested participants.

For the listing of posters please see the back of the programme.

## MONDAY, 21 November 2016

**08:00 – 10:00 Registration and Distribution of  
Conference Material**

**10:00 – 12:30 OPENING**

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*Time*                      *Name*

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**10:00 – 10:40 OPENING SESSION**

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10:00 – 10:15	<b>J.C. Lentijo</b> Deputy Director General, Department of Nuclear Safety & Security (NS), IAEA	<i>Opening Statement</i>
10:15 – 10:25	<b>C.-M. Larsson</b> Conference Chairman, Chief Executive Officer, ARPANSA, Australia	<i>Opening Speech</i>
10:25 – 10:30	<b>G. Bruno</b> Scientific Secretary, IAEA	<i>Administrative Arrangements</i>

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**10:30 – 11:10 OPENING PANEL**

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10:30 – 10:40	<b>C.-M. Larsson</b> Conference Chairman, Chief Executive Officer, ARPANSA, Australia	<i>Introduction of Panel Objective</i> <i>Introduction of Panellist</i>
10:40 – 10:50	<b>M. Garribba</b> Director of Nuclear Energy, Safety and ITER, DG Energy, EC	
10:50 – 11:00	<b>D. Huizenga</b> President for the 5 <sup>th</sup> Review Meeting of the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management	
11:00 – 11:10	<b>M. Siemann</b> Head of Division Radiological Protection and Radioactive Waste, OECD Nuclear Energy Agency (NEA)	

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**11:10 – 12:30 PANEL DISCUSSION**

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**C.-M. Larsson**  
Moderator

**M. Garribba**

**D. Huizenga**

**M. Siemann**

**A. Orrell**

Section Head,  
Waste and Environmental Safety Section,  
IAEA

On behalf of DDG-NS

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**12:30 – 14:00 Lunch Break**

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## MONDAY, 21 November 2016

### 14:00 – 18:30 SESSION 1

#### National Policy, Strategy and Framework for Radioactive Waste Management

**Chair** G. Williams (Australia)  
**Co-Chair** W. Blommaert (Belgium)

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:10		<b>Chair</b>		<i>Chair Opening</i>
14:10 – 14:40	01 – 00 / INV 01	<b>C. Kassiotis</b>	France	National Plan on Management of Radioactive Materials and Waste in France (2013-2015): Main Conclusions from a Safety Point of View
14:40 – 15:00	01 – 01 / ID 14	<b>L. Rozdylouskaya</b>	Belarus	Strategic Approaches and Regulatory Infrastructure for Radioactive Waste Management in the Republic of Belarus
15:00 – 15:20	01 – 02 / ID 25	<b>L. Kegel</b>	Slovenia	Preparation of the National Programme for the Spent Fuel and Radioactive Waste Management Taking into Account Possibility of Potential Multinational / Regional Disposal Facilities Development
15:20 – 15:40	01 – 03 / ID 44	<b>J. Iqbal</b>	Pakistan	National Policy, Strategy and Regulatory Framework for Radioactive Waste Management in Pakistan
15:40 – 15:50		<b>Co-Chair</b>		<i>Poster Presentations</i>
<b>15:50 – 16:20</b>	<b>Coffee Break (sponsored)</b>			
16:20 – 16:40	01 – 04 / ID 72	<b>E. Kudryavtsev</b>	Russian Federation	Development of Legal and Regulatory Framework for Radioactive Waste Management Safety in the Russian Federation
16:40 – 17:00	01 – 05 / ID 121	<b>S. Sarkar (J. Murray)</b>	Australia	Stakeholder Engagement Ensuring Confidence in the Regulatory Decision of a Possible Co-Located Low Level Waste (LLW) Disposal and Intermediate Level Waste (ILW) Storage Facility in Australia
17:00 – 17:20	01 – 06 / ID 215	<b>M. Caspers</b>	Germany	Responsible and Safe Management of Spent Fuel and Radioactive Waste in Germany
17:20 – 17:40	01 – 07 / ID 192	<b>J. Tappert</b>	United States of America	Nuclear Regulatory Commission (NRC)'s Framework for Disposal and Management of Radioactive Waste
17:40 – 18:30				<i>Discussion</i>

## TUESDAY, 22 November 2016

09:00 – 12:30 **SESSION 2.a**

### Predisposal – Waste Processing

**Chair** S. Barlow (United Kingdom)

**Co-Chair** Y. Meguro (Japan)

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:10		<b>Chair</b>		<i>Chair Opening</i>
09:10 – 09:40	02a – 00 / INV 02a	<b>R. Weston</b>	United Kingdom	Developing a Step Wise Approach to Waste Management and Decommissioning at the Sellafield Site
09:40 – 10:00	02a – 01 / ID 79	<b>G. Menard</b>	Netherlands	Predisposal – Waste Processing: Feedback of the Dutch Historical Waste Management Programme
10:00 – 10:20	02a – 02 / ID 108	<b>C. Gao</b>	China	Volume Reduction Technology of Radioactive Waste and Clearance Practice of Contaminated Material
10:20 – 10:40	02a – 03 / ID 187	<b>V. Wasselin-Trupin</b>	France	Independent Evaluation of the Safety Implications of Treating and Conditioning Organic and Other Radioactive Waste
10:40 – 10:50		<b>Co-Chair</b>		<i>Poster Presentations</i>
<b>10:50 – 11:20</b>	<b>Coffee Break (sponsored)</b>			
11:20 – 11:40	02a – 04 / ID 35	<b>M. Lindberg</b>	Sweden	Using Disposal Criteria for Choosing Treatment Strategy
11:40 – 12:00	02a – 05 / ID 212	<b>P. Hoffman / M. Filß</b>	Germany	Requalification of Legacy Radioactive Waste in Germany
12:00 – 12:20	02a – 06 / ID 206	<b>F. Besnus</b>	ETSON	The ETSON Study on Treatment Processes for the Sustainable Management of Radioactive Waste
12:20 – 12:30				<i>Discussion</i>
<b>12:30 – 14:00</b>	<b>Lunch Break</b>			



## TUESDAY, 22 November 2016

14:00 – 18:00 SESSION 2.b

Predisposal – Storage

Chair J.-L. Revilla (Spain)

Co-Chair J. Tappert (United States of America)

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:10		<b>Chair</b>		<i>Chair Opening</i>
14:10 – 14:40	02b – 00 / INV 02b	<b>E. Maset</b>	Argentina	Storage: a Necessary Step towards the Endpoint
14:40 – 15:00	02b – 01 / ID 159	<b>A. Smetnik</b>	Russian Federation	Application of SAFRAN Tool for the Knowledge Management at the Stage of Radioactive Waste Retrieval from Historical Radon-type Storage Facility
15:00 – 15:20	02b – 02 / ID 202	<b>M. Braeckveldt</b>	Belgium	40 Years of Experience of NIRAS / Belgoprocess on the Interim Storage of Low, Intermediate and High Level Waste
15:20 – 15:40	02b – 03 / ID 214	<b>P. Skelton (S. Wisbey)</b>	United Kingdom	Protecting the Investment – Guidance on the Storage of Packaged Wastes in the UK
15:40 – 15:50		<b>Co-Chair</b>		<i>Poster Presentation</i>
<b>15:50– 16:20</b>	<b>Coffee Break</b>			
16:20 – 16:40	02b – 04 / ID 216	<b>J. Boelen (E. Verhoef)</b>	Netherlands	The Essence of Time in Policy and Design Radioactive Waste Management Strategy in the Netherlands
16:40 – 17:00				<i>Discussion</i>
17:00 – 18:00				General Discussion on Session 2

**WEDNESDAY, 23 November 2016**

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:10	03 – 00 / KN 03	<b>C.-M. Larsson</b>	Australia	Introduction on Disposal
<b>09:10 – 12:30</b>	<b>SESSION 3.b</b>			
	<b>Disposal of Very Low Level Waste &amp; Low Level Waste</b>			
<b>Chair</b>	<b>J. Feinhals (Germany)</b>			
<b>Co-Chair</b>	<b>M. Abdel Geleel (Egypt)</b>			
09:10 – 09:20		<b>Chair</b>		<i>Chair Opening</i>
09:20 – 09:40	03b – 01 / ID 65	<b>S. Viršek</b>	Slovenia	Safety Case for Slovenian Low & Intermediate Level Waste (LILW) Near Surface Repository
09:40 – 10:00	03b – 02 / ID 103	<b>M. Ranft</b>	Germany	Morsleben Disposal Facility for Low and Intermediate Level Radioactive Waste
10:00 – 10:20	03b – 03 / ID 98	<b>A. Sakai</b>	Japan	Disposal project for Low Level Waste (LLW) and Very Low Level Waste (VLLW) Generated from Research Facilities in Japan: a Feasibility Study for the Near Surface Disposal of VLLW that Includes Uranium
10:20 – 10:40	03b – 04 / ID 137	<b>J. Dose</b>	Germany	The Asse II Mine – Tasks and Challenges
10:40 – 10:50		<b>Co-Chair</b>		<i>Poster presentation</i>
<b>10:50 – 11:20</b>	<b>Coffee Break (sponsored)</b>			
11:20 – 11:40	03b – 05 / ID 144	<b>L. Griffault - Sellinger (S. Soulet)</b>	France	The Safety Case of Andra's Low and Intermediate Level, Short Lived Radioactive Waste Disposal Facility in the Aube District (CSA)
11:40 – 12:00	03b – 06 / ID 169	<b>A. Bagheri</b>	Iran, Islamic Republic of	Preliminary Post-Closure Safety Assessment and Predisposal Radiomonitoring of Anarak Near Surface Repository
12:00 – 12:20	03b – 07 / ID 190	<b>R. Abu Eid</b>	United States of America	The Safety Case and the Risk-Informed Performance-Based Approach for Management of US Commercial Low Level Radioactive Waste (LLRW)
12:20 – 12:30				<i>Discussion</i>
<b>12:30 – 14:00</b>	<b>Lunch break</b>			

## WEDNESDAY, 23 November 2016

14:00 – 17:00 **SESSION 3.c**

### Disposal of Intermediate Level Waste

**Chair** J. Leino (Finland)  
**Co-Chair** J. Boelen (Netherlands)

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:10		<b>Chair</b>		<i>Chair Opening</i>
14:10 – 14:30	03c – 01 / ID 64	<b>R. Nakabayashi</b>	Japan	Development of Methodology for Probabilistic Safety Assessment of Long Term Radioactive Waste Disposal
14:30 – 14:50	03c – 02 / ID 91	<b>S. Konopaskova</b>	Czech Republic	Waste Acceptance Criteria Development for Different Low and Intermediate Level Waste (LILW) Disposal Systems
14:50 – 15:10	03c – 03 / ID 92	<b>E. Andersson</b>	Sweden	Assessment of Human Intrusion and Future Human Actions – Example from the Swedish Low and Intermediate Level Waste Repository SFR
15:10 – 15:30	03c – 04 / ID 97	<b>A. Carter</b>	United Kingdom	Data Management to Support a Post-Closure Safety Case for Higher Activity Wastes
15:30 – 15:40		<b>Co-Chair</b>		<i>Poster Presentation</i>
<b>15:40 – 16:10 Coffee Break</b>				
16:10 – 16:30	03c – 05 / ID 193	<b>H. Arit</b>	United States of America	Greater-Than-Class C Low Level Radioactive Waste Characteristics and Disposal Aspects
16:30 – 16:50	03c – 06 / ID 135	<b>J.-M. Hoorelbeke</b>	France	Implementation of a Graded Approach in Radioactive Waste Management in France
16:50 – 17:00				<i>Discussion</i>

## THURSDAY, 24 November 2016

09:00 – 11:00 **SESSION 3.a**

### Disposal of Disused Sealed Radioactive Sources

**Chair** S.M. Oue (Canada)  
**Co-Chair** N. Zakaria (Malaysia)

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<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:10		<b>Chair</b>		<i>Chair Opening</i>
09:10 – 09:30	03a – 01 / ID 57	<b>E.T. Glover</b>	Ghana	Implementation of the Borehole Disposal System for Disused Sealed Radioactive Sources in Ghana
09:30 – 09:50	03a – 02 / ID 88	<b>R. Little</b>	United Kingdom	Post-Closure Safety of the Borehole Disposal Concept
09:50 – 10:10	03a – 03 / ID 213	<b>L. Aguiar</b>	Brazil	Borehole Disposal Concept of Disused Sealed Radioactive Sources(DSRS) in Brazil
10:10 – 10:20		<b>Co-Chair</b>		<i>Poster Presentation</i>
10:20 – 10:30				<i>Discussion</i>
<b>10:30 – 11:00</b>	<b>Coffee Break (sponsored)</b>			

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## THURSDAY, 24 November 2016

11:00 – 18:30 **SESSION 3.d**

### Disposal of High Level Waste including Spent Nuclear Fuel Declared as Waste

**Chair** M. Vesterlind (Sweden)  
**Co-Chair** T. Kilochytska (Ukraine)

<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:10		<b>Chair</b>		<i>Chair Opening</i>
11:10 – 11:40	03d – 00 / INV 03d	<b>J. Heinonen</b>	Finland	Regulatory Experiences from the Spent Fuel Disposal Step-Wise Implementation
11:40 – 12:00	03d – 01 / ID 111	<b>V. Havlová</b>	Czech Republic	Complex Safety Assessment Model of Radioactive Waste Deep Geological Disposal in the Czech Republic
12:00 – 12:20	03d – 02 / ID 130	<b>A. Hagros</b>	Finland	Preparing Posiva's Post-Closure Safety Case towards the Operational Phase
12:20 – 12:30		<b>Co-Chair</b>		<i>Poster Presentation</i>
<b>12:30 – 14:00 Lunch Break</b>				
14:00 – 14:20	03d – 03 / ID 145	<b>S. Voinis</b>	France	Andra's Safety Options of French Underground Facility Cigéo – a Milestone towards the Licensing Application
14:20 – 14:40	03d – 04 / ID 172	<b>I. Niemeyer</b>	Germany	Bridging Nuclear Safety, Security and Safeguards at Geological Disposal of High Level Radioactive Waste and Spent Nuclear Fuel
14:40 – 15:00	03d – 05 / ID 141	<b>T. Fujiyama</b>	Japan	Development of the NUMO Preselection, Site Specific Safety Case
15:00 – 15:20	03d – 06 / ID 131	<b>L. Bailey</b>	United Kingdom	Development of a Generic Environmental Safety case for the Disposal of Higher Activity Wastes in the UK
15:20 – 15:40	03d – 07 / ID 184	<b>D. Pellegrini</b>	France	SITEX, the European Network of Technical Expertise Organisations for Geological Disposal
<b>15:40 – 16:10 Coffee Break</b>				
16:10 – 16:30	03d – 08 / ID 207	<b>A. Ström</b>	Sweden	Research and Development Needs in a Step-Wise Process for the Nuclear Waste Program in Sweden
16:30 – 16:40				<i>Discussion</i>
16:40 – 17:30				General Discussion on Session 3

## FRIDAY, 25 November 2016

### 09:00 – 12:15 SESSION 4

#### Post-Accident Management: Lessons Learned and Preparedness

**Chair** F. Besnus (France)  
**Co-Chair** M. Nepeypivo (Russian Federation)

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<i>Time</i>	<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:10		<b>Chair</b>		<i>Chair Opening</i>
09:10 – 09:40	04 – 00 / INV 04	<b>S. Nomura</b>	Japan	Five Years Progress on Waste Management of Fukushima-Daiichi Nuclear Accident
09:40 – 10:00	04 – 01 / ID 136	<b>T. Kilochytska</b>	Ukraine	Post-Accident Waste Management in Ukraine : Challenges and Steps Needed to Resolve the Accident Waste Problem
10:00 – 10:20	04 – 02 / ID 201	<b>M. Tichauer</b>	France	Path Forward to the Revision of the French Doctrine of Waste Management in Post-Accidental Situations : New Challenges in the Light of Experience Feedback and Unveiled Areas of Development
10:20 – 10:40	04 – 03 / ID 153	<b>Y. Koma</b>	Japan	Inventory Estimation for Accident Waste Generated at the Fukushima Daiichi NPS
10:40 – 10:50		<b>Co-Chair</b>		<i>Poster Presentation</i>
<b>10:50– 11:20</b>	<b>Coffee Break</b>			
11:20 – 11:40	04 – 04 / ID 142	<b>N. Rybalka</b>	Ukraine	Safety Assessment Approach for Decision Making Related to Remedial Measures and Radioactive Waste Management
11:40 – 12:15				<i>Discussion</i>

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## FRIDAY, 25 November 2016

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<i>Time</i>	<i>Name</i>	
<b>12:15 – 13:00</b>	<b>PANEL DISCUSSION</b>	
	<b>C.-M. Larsson</b> Moderator	<i>Summary Discussion,</i> <i>Conclusions,</i> <i>and Recommendations</i>
	<b>All Session Chairs</b>	
<b>13:00 – 13:30</b>	<b>CLOSING SESSION</b>	
<b>13:00 – 13:10</b>	<b>C.-M. Larsson</b> Conference Chairman	<i>Conference Summary</i>
<b>13:10 – 13:20</b>	<b>M. Chudakov</b> Deputy Director General, Department of Nuclear Energy (NE), IAEA	<i>Closing Remarks</i>
<b>13:20 – 13:30</b>	<b>J.C. Lentijo</b> Deputy Director General, Department of Nuclear Safety & Security (NS), IAEA	<i>Closing Remarks</i>

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# POSTERS

## SESSION 1

### National Policy, Strategy and Framework for Radioactive Waste Management

<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
01 – 08 / ID 8	<b>G. Nabakhtiani</b>	Georgia	Radioactive Waste Management System in Georgia
01 – 09 / ID 36	<b>J. Feinhals</b>	Germany	Disposal Facilities for Countries without a Nuclear Power Program
01 – 10 / ID 49	<b>J. Sulakova</b>	Czech Republic	Radioactive Waste Management in the Czech Republic – the Role of the Regulatory Body
01 – 11 / ID 51	<b>M. Vujović</b>	Serbia	Radioactive Waste Management Framework in Republic of Serbia – Status, Issues and Planned Activities
01 – 12 / ID 58	<b>L. Bak</b>	Poland	Management of Radioactive Waste in Poland 2016
01 – 13 / ID 62	<b>N. Maksumov</b>	Uzbekistan	Safety of Radioactive Waste Management in Uzbekistan
01 – 14 / ID 67	<b>O. Unver</b>	Turkey	Regulatory Aspects of Radioactive Waste Management in Turkey
01 – 15 / ID 69	<b>D.M. Dogaru</b>	Romania	Improvement of the Regulatory Framework in the Field of Radioactive Waste and Decommissioning
01 – 16 / ID 82	<b>N. Zakaria</b>	Malaysia	Characterization of Reactor Triga Puspati (RTP) Nuclear Fuel and the Assessment of its Back End Strategy
01 – 17 / ID 87	<b>R. Sumskis</b>	Lithuania	Reconciliation for the Stakeholders' Interests in Preparation of the Radioactive Waste Management Program: Lithuanian Experience
01 – 18 / ID 106	<b>S.M. Oyeyemi</b>	Nigeria	Salient Issues in the Review of Nigerian Radioactive Waste Management Regulations
01 – 19 / ID 147	<b>S. Jovanovic</b>	Montenegro	Education as a Fundamental Prerequisite for the Safe and Secure Management of Radioactive Waste in a Small non-Nuclear Country – Experience of Montenegro
01 – 20 / ID 152	<b>T. Sandev</b>	The former Yugoslav Republic of Macedonia	Improvement of the Radioactive Waste Management Regulations in the Republic of Macedonia: Good Practice within IAEA supported Projects
01 – 21 / ID 154	<b>Z. Hauszmann</b>	Hungary	Regulatory Oversight of Radioactive Waste Repositories in Hungary



<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
01 – 22 / ID 165	<b>S. Rezvaninejad (N. Omidvari)</b>	Iran, Islamic Republic of	Strategy Development for Solid Radioactive Waste Management in Islamic Republic of Iran
01 – 23 / ID 200	<b>C. McCombie</b>	Switzerland	Progress with Initiatives for Multinational Disposal of Radioactive Wastes
01 – 24 / ID 205	<b>M. Savkin</b>	Russian Federation	Selecting Long Term Safety Strategies for Radioactive Waste Accumulated in Russia

**SESSION 2.a****Predisposal - Waste Processing**

<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
02a – 07 / ID 2	<b>Q.H. Pham</b>	Viet Nam	The Study of Strippable Polymer Coating for Surface Decontamination of Medical Radioactive Isotopes
02a – 08 / ID 5	<b>B. Andris</b>	Slovakia	Development of Methods for Determination of <sup>94</sup> Nb and <sup>126</sup> Sn in order to Optimize Treatment and Disposal of Intermediate Level Waste Emerged from NPP-A1
02a – 09 / ID 7	<b>M. Ciávaro</b>	Argentina	Pilot Plant for the Cementing and Compacting of Radioactive Waste
02a – 10 / ID 12	<b>N. Ya-Anant</b>	Thailand	Safety of Radioactive Waste Management in Thailand; Dismantling and Conditioning of Disused Sealed Radioactive Source by Encapsulation
02a – 11 / ID 13	<b>I. Karachristou</b>	Greece	Pretreatment of Radioactive Devices at the National Centre for Scientific Research (NCSR) “Demokritos”
02a – 12 / ID 18	<b>M.I. Ali</b>	Bangladesh	Conditioning of Disused Sealed Radioactive Sources (DSRSs) in Bangladesh: Recent Experience and Lessons Learned
02a – 13 / ID 23	<b>D. Kelley</b>	United States of America	Proven Technology for the Solidification of Complex Liquid Radioactive Waste (LRW): Global Case Studies of Applications and Disposal Options
02a – 14 / ID 45	<b>H.F. Randriantseho</b>	Madagascar	Status of the Management of Disused Sealed Sources in Madagascar
02a – 15 / ID 48	<b>A. Savvidou</b>	Greece	Characterization and Management Options of Ion Exchange Resin Waste from the Greek Research Reactor (GRR-1) at the National Centre for Scientific Research (NCSR) “Demokritos”
02a – 16 / ID 50	<b>M. Toth</b>	Slovakia	The Newly Designed SUZA II Equipment for Sludge Immobilisation
02a – 17 / ID 75	<b>M.O. Atogo</b>	Kenya	Assessment of the Management of Radioactive Waste in Kenya
02a – 18 / ID 76	<b>T. Hrnčir</b>	Slovakia	Development of Dose Assessment Scenarios Relevant for Clearance Concepts
02a – 19 / ID 84	<b>J.C. Dellamano</b>	Brazil	Why the Management of Disused Iridium Sources Should Be Changed?
02a – 20 / ID 99	<b>M. Zachar</b>	Slovakia	Development of Methodology for Cost Effectiveness Analysis of Decommissioning Waste Management Scenarios

<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
02a – 21 / ID 122	<b>F.M. Siahaan</b>	Indonesia	Integrated National Reporting System of Radioactive Waste management in Indonesia (SALT)
02a – 22 / ID 149	<b>K. Shin</b>	Korea, Republic of	Application of Mass-to-surface Ratio for the Regulatory Clearance of Very Low Level Waste (VLLW) Metal Radioactive Wastes at Korea Atomic Energy Research Institute (KAERI)
02a – 23 / ID 166	<b>M.J. Marijuán</b>	Spain	Non Destructive Characterization of Waste Drums by Gamma Ray Spectrometry at CIEMAT
02a – 24 / ID 185	<b>S. Alves</b>	Brazil	Implementation of a Radioactive Waste Management Program Focused on the Development of Waste Process Technologies to Minimize Waste Volumes and to Improves Storage Capacity
02a – 25 / ID 186	<b>S.M. Oue (S. Thompson)</b>	Canada	Regulatory Oversight of the Predisposal Management of Radioactive Waste in Canada
02a – 26 / ID 191	<b>J.M.R. Antoine</b>	Jamaica	Cradle to Grave Control of Radioactive Sources: the ARCAL Regional Effort
02a – 27 / ID 197	<b>A. Niane</b>	Senegal	Challenges and Advances in the Management of Radioactive Sealed Waste in Senegal
02a – 28 / ID 203	<b>S. Semin</b>	Russian Federation	Development of an Integrated Radioactive Waste Treatment Infrastructure

**SESSION 2.b****Predisposal - Storage**

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
02b – 05 / ID 29	<b>D. Prifti</b>	Albania	Radioactive Waste Management and Centralized Interim Storage Facility in Albania
02b – 06 / ID 63	<b>M.C. Bossio</b>	Argentina	Long Term Storage of Radioactive Waste in Argentina – Regulatory Framework
02b – 07 / ID 129	<b>J. Mueth</b>	Switzerland	Waste Management in a National Institute
02b – 08 / ID 134	<b>N. González Rodríguez</b>	Cuba	Safety Assessment for the Management of Disused Radioactive Sources from the Irradiation Facility Product I in Cuba

**SESSION 3.b****Disposal of Very Low Level Waste  
& Low Level Waste**

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
03b – 08 / ID 30	<b>E.J. Seo</b>	Korea, Republic of	Regulatory Activities and Lessons Learned in Korea for a Low and Intermediate Level Waste (LILW) Repository
03b – 09 / ID 37	<b>D. Grigaliuniene</b>	Lithuania	Waste Zone Conceptual Model Effect on Predicted Radionuclide Flux from Near Surface Repository
03b – 10 / ID 42	<b>I. Kock</b>	Germany	Multi-Phase Flow in a Complex Low Level Waste (LLW) / Intermediate Level Waste (ILW) Repository
03b – 11 / ID 43	<b>A.M. Amin</b>	Egypt	Safe Handling of Radioactive Animal Carcasses Waste; Disposal Options
03b – 12 / ID 52	<b>K. Tanaka</b>	Japan	A Plan and its Safety Assessment of Very Low Level Waste (VLLW) Disposal Site in order to Dispose of Waste Materials Generated from Decommissioning of Tokai Nuclear Power Plant
03b – 13 / ID 120	<b>A.H. Che Kamaruddin</b>	Malaysia	Site Selection Study for Radioactive Waste Repository: Study Area of Negeri Sembilan
03b – 14 / ID 124	<b>S. Sarkar</b>	Australia	Regulatory Approach for the Assessment of the Licence Application for Radioactive Waste Management Facilities in Australia
03b – 15 / ID 157	<b>M. Boroumandi</b>	Iran, Islamic Republic of	Simulation and Stability Analysis of Near Surface Disposal Trenches of Radioactive Waste by Using Finite Element Method
03b – 16 / ID 175	<b>A. Ibrahim</b>	Nigeria	Design of a Near Surface Disposal Facility for Low and Intermediate Level Radioactive Waste in Zaria, Nigeria
03b – 17 / ID 183	<b>T. Von Berlepsch</b>	Germany	The National Disposal Facility for Radioactive Waste in Bulgaria

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**SESSION 3.c****Disposal of Intermediate Level Waste**

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
03c – 07 / ID 80	<b>K. Källström</b>	Sweden	Methodology and Results for the Safety Assessment for Low and Intermediate Level Waste Repository (SFR) in Sweden
03c – 08 / ID 95	<b>A. Glindkamp</b>	Germany	Implementation of Requirements on the Chemical Toxicity of Nuclear Waste at a Repository
03c – 09 / ID 102	<b>M. Nepeypivo (A. Talitskaya)</b>	Russian Federation	Safety Assessment as an Instrument for Waste Acceptance Criteria Derivation
03c – 10 / ID 128	<b>B. Samwer</b>	Germany	Konrad Repository – Evaluation on the Safety Requirements according to the State of the Art of Science and Technology

**SESSION 3.a****Disposal of Disused Sealed Radioactive Sources**

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
03a – 04 / ID 1	<b>E. Phillip</b>	Malaysia	Application of IAEA BDC Scoping and AMBER Modelling in Safety Assessment of Malaysian Borehole Disposal Facility
03a – 05 / ID 24	<b>R.H. Gil Castillo</b>	Cuba	Borehole Concept – Preliminary Safety Assessment using a Screening Tool
03a – 06 / ID 181	<b>I. Pereira</b>	Brazil	Borehole Disposed of Sealed Sources: Methodological Proposal for the Site Selection of a Borehole Repository in Brazil

**SESSION 3.d****Disposal of High Level Waste  
including Spent Nuclear Fuel Declared as Waste**

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
03d – 09 / ID 26	<b>F. Charlier</b>	Germany	Germany's New Route towards a Repository for High Level Waste – Scientific Challenges
03d – 10 / ID 32	<b>J.-W. Kim</b>	Korea, Republic of	Recent Safety Assessment of a Reference Geological Disposal System for Radioactive Waste from Pyro-Processing in Korea
03d – 11 / ID 34	<b>Y. Kovbasenko</b>	Ukraine	Assessment of Decay Heat in Process of Spent Nuclear Fuel Disposal
03d – 12 / ID 94	<b>S. Suzuki</b>	Japan	Assessment of Pre- and Post-Closure Safety in the NUMO Safety Case for a Geological Repository
03d – 13 / ID 96	<b>J. Stastka</b>	Czech republic	Research, Development and Demonstration Projects at the Josef Underground Laboratory
03d – 14 / ID 125	<b>V. Maree</b>	South Africa	The Management of Used (Spent) Fuel and High Level Waste in South Africa
03d – 15 / ID 140	<b>J. Leino</b>	Finland	Regulatory Experiences in Reviewing Construction License Application for the Disposal of Spent Nuclear Fuel in Finland
03d – 16 / ID 155	<b>L. Vondrovic</b>	Czech Republic	Generic Underground Research Facility in the Middle Stage of the Site Selection Process: Bukov URF, Czech Republik
03d – 17 / ID 161	<b>F. Launeau</b>	France	Cigéo Project: from Basic Design to Detailed Design – Pursuant to Reversibility
03d – 18 / ID 171	<b>B.B. Acar</b>	Turkey	Impact of Storage Period on Safe Geological Disposal of Spent Fuel

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## SESSION 4

### Post-Accident Waste Management – Lessons Learned and Preparedness

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<i>No. of Paper IAEA-CN-242</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
04 – 05 / ID 46	<b>S.R. Mallapati</b>	Korea, Republic of	Potential Nano-Fe/Ca/CaO Composite Enabled Environmental Remediation Technologies for Radioactive Waste
04 – 06 / ID 112	<b>V. Havlová</b>	Czech Republic	The Treatment of Highly Radioactive Waste Originating from a Severe Accident at a VVER 440 NPP
04 – 07 / ID 139	<b>Y. Meguro</b>	Japan	Approaches of Selection of Adequate Conditioning Methods for Various Radioactive Waste in Fukushima Daiichi NPS

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## IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE (non-exhausted list)

<i>IAEA Safety Standards No. SF-1</i>	Fundamental Safety Principles (2006)	<i>IAEA Safety Standards No. GS-G-3.3</i>	The Management System for the Processing, Handling and Storage of Radioactive Waste (2008)
IAEA Safety Glossary	Safety Glossary: Terminology Used in Nuclear Safety and Radiation Protection (2007)	<i>IAEA Safety Standards No. GS-G-3.4</i>	The Management System for the Disposal of Radioactive Waste (2008)
<i>IAEA Safety Standards No. GSR Part 3</i>	Radiation Protection and Safety of Radiation Sources: International Basic Standards (2014)	<i>IAEA Safety Standards No. WS-G-2.7</i>	Management of Waste from the Use of Radioactive Material in Medicine, Industry, Research and Education (2005)
<i>IAEA Safety Standards No. GSR Part 5</i>	Predisposal Management of radioactive Waste (2009)	<i>IAEA Nuclear Energy Series No. NE-BP</i>	Nuclear Energy Basic Principles (2008)
<i>IAEA Safety Standards No. SSR-5</i>	Disposal of Radioactive Waste (2011)	<i>IAEA Nuclear Energy Series No. NG-T-1.4</i>	Stakeholder Involvement throughout the Life Cycle of Nuclear Facilities (2009)
<i>IAEA Safety Standards No. GSG-1</i>	Classification of radioactive Waste (2009)	<i>IAEA Nuclear Energy Series No. NM-T-1.5</i>	Framework and Challenges for Initiating Multinational Cooperation for the Development of a Radioactive Waste Repository (2016)
<i>IAEA Safety Standards No. GSG-3</i>	The Safety Case and Safety Assessment for the Predisposal Management of Radioactive Waste (2013)	<i>IAEA Nuclear Energy Series No. NW-G-1.1</i>	Policies and Strategies for Radioactive Waste Management
<i>IAEA Safety Standards No. WS-G-6.1</i>	Storage of Radioactive Waste (2006)	<i>IAEA Nuclear Energy Series No. NW-T-1.2</i>	The Management System for the Development of Disposal Facilities for Radioactive Waste (2011)
<i>IAEA Safety Standards No. SSG-14</i>	Geological Facilities for Radioactive Waste (2011)	<i>IAEA Nuclear Energy Series No. NW-T-1.3</i>	Management of Disused Sealed Radioactive Sources (2014)
<i>IAEA Safety Standards No. SSG-23</i>	The Safety Case and Safety Assessment for the Disposal of Radioactive Waste (2012)	<i>IAEA Nuclear Energy Series No. NW-T-1.4</i>	Modular Design of Processing and Storage Facilities for Small Volumes of Low and Intermediate Level Radioactive Waste Including Disused Sealed Sources (2014)
<i>IAEA Safety Standards No. SSG-29</i>	Near Surface Disposal Facilities for Radioactive Waste (2014)	<i>IAEA Nuclear Energy Series No. NW-T-1.8</i>	Mobile Processing Systems for Radioactive Waste Management
<i>IAEA Safety Standards No. SSG-31</i>	Monitoring and Surveillance of Radioactive Waste Disposal Facilities (2014)	<i>IAEA Nuclear Energy Series No. NW-T-1.19</i>	Geological Disposal of Radioactive Waste: Technological Implications for Retrievability (2009)
<i>IAEA Safety Standards No. SSG-40</i>	Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors (2016)	<i>IAEA Nuclear Energy Series No. NW-T-1.20</i>	Disposal Approaches for Long Lived Low and Intermediate Level Radioactive Waste (2009)
<i>IAEA Safety Standards No. SSG-41</i>	Predisposal Management of Radioactive Waste from Fuel Cycle Facilities (2016)		

<i>IAEA Nuclear Energy Series No. NW-T-1.21</i>	Technological Implications of International Safeguards for Geological Disposal of Spent Fuel and Radioactive Waste (2010)
<i>IAEA TECDOC Series No. 1537</i>	Strategy and Methodology for Radioactive Waste Characterization (2007)
<i>IAEA TECDOC Series No. 1515</i>	Development of Specifications for Radioactive Waste Packages (2006)
<i>IAEA TECDOC Series No. 1744</i>	Treatment of Radioactive Gaseous (2015)
<i>IAEA TECDOC Series No. 1790</i>	Processing of Irradiated Graphite to Meet Acceptance Criteria for Waste Disposal (2016)
<i>IAEA TECDOC Series No. 1701</i>	The Behaviours of Cementitious Materials in Long Term Storage and Disposal of Radioactive Waste (2013)
<i>IAEA TECDOC Series No. 1579</i>	New Developments and Improvements in Processing of Problematic Radioactive Waste (2007)
<i>IAEA TECDOC Series No. 1755</i>	Planning and Design Considerations for Geological Repository Programmes of Radioactive Waste (2014)
<i>IAEA TECDOC Series No. 1566</i>	Factors Affecting Public and Political Acceptance for the Implementation of Geological Disposal (2007)
<i>IAEA TECDOC Series No. 1644</i>	BOSS: Borehole Disposal of Disused Sealed Sources – A Technical Manual (2011)

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

## **NOTES**

### **2016**

International Conference on Nuclear Security: Commitments and Actions (CN-244)  
5–9 December; Vienna, Austria

### **2017**

International Conference on Applications of Radiation Science and Technology (ICARST-2017) (CN-249)  
24–28 April; Vienna, Austria

Third FAO/IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques (CN-248)  
22–26 May; Vienna, Austria

International Conference on the IAEA Technical Cooperation Programme: Sixty Years and Beyond — Contributing to Development (CN-257)  
30 May-1 June; Vienna, Austria

International Conference on Safety Demonstration of Advanced Water Cooled Nuclear Power Plants (CN-251)  
6–9 June; Vienna, Austria

International Conference on Advances in Radiation Oncology (ICARO-2) (CN-250)  
20–23 June; Vienna Austria

International Conference on Fast Reactors and Related Fuel Cycles (FR17) (CN-245)  
26–29 June; Yekaterinburg, Russian Federation

Fourth International Conference on Nuclear Power Plant Life Management (PLiM) (CN-246)  
23–27 October; Lyon, France

Ministerial Conference on Nuclear Power in the 21st Century (CN-247)  
30 October–1 November; Abu Dhabi, United Arab Emirates

International Conference on Physical Protection of Nuclear Material and Nuclear Facilities (CN-254)  
13–17 November; Vienna, Austria

International Conference on Radiation Protection in Medicine (CN-255)  
11–15 December; Vienna, Austria

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

## NOTES



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