

Conference:

President: H.E. J. Martonyi
Minister of Foreign Affairs,
Hungary

Conference Secretariat

Scientific Secretaries: K. Mrabit, IAEA
I. Barraclough, IAEA

Conference Coordination: M. Neuhold, IAEA
J. Zellinger, IAEA

Administrative and
Coordination Support: P. Gizowska, IAEA
J. Leopold, IAEA

Editor: G. Ruffino, IAEA
R.J. Benbow, IAEA

Location of the Conference:

International Atomic Energy Agency
Vienna International Centre (VIC)
Wagramer Strasse 5
1400 Vienna, Austria

Working Language: English

During the Ministerial Session on
Monday, 1 July and Tuesday, 2 July
simultaneous interpretation will be
provided for statements (Arabic,
Chinese, English, French, Russian,
Spanish).

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

Programme Committee

Chair:

L. Vinhas	Brazil
G. Terigi	Argentina
A. Murray	Australia
G. Hamilton	Canada
J. Zhang	China
W. Zidan	Egypt
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A. Hagemann	Germany
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Y. Hosik	Korea, Republic of
R.A.A Raja Adnan	Malaysia
K. Nederlof	Netherlands
V. Ostropikov	Russian Federation
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S. Limage	United States of America
A. Harrington	United States of America
S. Klement	EU
G. de Salazar	GICNT
A. King	INTERPOL
F. Kolar	UNODA
M. Requena	UNODC
R. Howsley	WINS

TIMETABLE

Sunday, 30 June 2013

15:00–18:30	Registration
17:00–19:00	Welcome Reception hosted by the IAEA Office of Nuclear Security

Monday, 1 July 2013

08:00	Registration (continued)
10:00–13:00	Ministerial Session (<i>Conference Room M1</i>)
13:00–15:00	Lunch Break
13:00–15:00	<i>Luncheon for Ministers and other Heads of Delegation</i> (<i>VIC Restaurant</i>)
15:00–17:00	Ministerial Session (continued) (<i>Conference Room M1</i>)
17:00–17:30	Adoption of a Ministerial Declaration
17:30–19:30	Ministerial Session (continued) (<i>Conference Room M1</i>)

Tuesday, 2 July 2013

09:00–12:00	Ministerial Session (continued) (Conference Room M1)	
12:00–13:00	Main Session M2 (Conference Room M1)	Introduction
09:00–10:50	Technical Session TA2 (Boardroom A)	Information and Cyber Security
09:00–10:50	Technical Session TB5 (Conference Room M2)	Safety-Security Interfaces
10:50–11:30	Coffee Break	Poster Viewing TA2
10:50–11:10	Coffee Break	Poster Viewing TB5
11:30–12:30	Technical Session TA2 (Boardroom A)	Information and Cyber Security
11:10–13:00	Technical Session TB5 (Conference Room M2)	Safety-Security Interfaces
12:30–14:00	Lunch Break	
14:00–18:00	Main Session M3 (Conference Room M1)	Implementing and Enhancing the International Nuclear Security Framework
14:00–15:50	Technical Session TA3 (Boardroom A)	Enhancing Nuclear Security Regimes II
14:00–16:10	Technical Session TB3 (Conference Room M2)	Threat Characterization and Assessment
15:50–16:20	Hosted Coffee Break	Poster Viewing TA3
16:10–16:50	Hosted Coffee Break	Poster Viewing TB3

Tuesday, 2 July 2013

16:20–17:30	Technical Session TA3 (Boardroom A)	Enhancing Nuclear Security Regimes II
16:50–17:50	Technical Session TB3 (Conference Room M2)	Threat Characterization and Assessment

Wednesday, 3 July 2013

09:00–12:30	Main Session M4 (Conference Room M1)	Nuclear Material and Nuclear Facilities
09:00–10:50	Technical Session TA4 (Boardroom A)	Security of Radioactive Sources
09:00–10:50	Technical Session TB4 (Conference Room M2)	Education and Training
10:50–11:30	Coffee Break	Poster Viewing TA4 & TB4
11:30–12:30	Technical Session TA4 (Boardroom A)	Security of Radioactive Sources
11:30–12:30	Technical Session TB4 (Conference Room M2)	Education and Training
12:30–14:00	Lunch break	
14:00–18:00	Main Session M5 (Conference Room M1)	Radioactive Sources and Associated Facilities
14:00–15:50	Technical Session TA5 (Boardroom A)	Structured Capacity Building
14:00–15:50	Technical Session TB2 (Conference Room M2)	Enhancing Nuclear Security Regimes

Wednesday, 3 July 2013

15:50–16:30	Hosted Coffee Break	Poster Viewing TA5 & TB2
14:00–15:50	Technical Session TB2	Enhancing Nuclear Security Regimes
	<i>(Conference Room M2)</i>	
15:50–16:30	Hosted Coffee Break	Poster Viewing TA5 & TB2
16:30–17:30	Technical Session TA5	Structured Capacity Building
	<i>(Boardroom A)</i>	
16:30–18:00	Technical Session TB2	Enhancing Nuclear Security Regimes
	<i>(Conference Room M2)</i>	

Thursday, 4 July 2013

09:00–12:30	Main Session M6	International Cooperation & Assistance, and the Role of the IAEA
	<i>(Conference Room M1)</i>	
09:00–10:30	Technical Session TA6	Detection and Response Architecture
	<i>(Boardroom A)</i>	
09:00–10:50	Technical Session TB6	Nuclear Security at Nuclear Facilities
	<i>(Conference Room M2)</i>	
10:30–11:10	Coffee Break	Poster Viewing TA6
10:50–11:30	Coffee Break	Poster Viewing TB6
11:10–12:40	Technical Session TA6	Detection and Response Architecture
	<i>(Boardroom A)</i>	
11:30–12:30	Technical Session TB6	Nuclear Security at Nuclear Facilities
	<i>(Conference Room M2)</i>	
12:30–14:00	Lunch Break	

Thursday, 4 July 2013

14:00–18:00	Main Session M7	Building and Sustaining a Nuclear Security Culture
	<i>(Conference Room M1)</i>	
14:00–15:30	Technical Session TA7	Nuclear Forensics
	<i>(Boardroom A)</i>	
14:00–15:50	Technical Session TB7	Detection and Response Architecture II: Major Public Events and New Technologies
	<i>(Conference Room M2)</i>	
15:30–16:10	Hosted Coffee Break	Poster Viewing TA7
15:50–16:20	Hosted Coffee Break	Poster Viewing TB7
16:10–17:30	Technical Session TA7	Nuclear Forensics
	<i>(Boardroom A)</i>	
16:20–18:40	Technical Session TB7	Detection and Response Architecture II: Major Public Events and New Technologies
	<i>(Conference Room M2)</i>	

Friday, 5 July 2013

09:00–12:30	Main Session M8	Addressing the Illicit Trafficking Threat
	<i>(Conference Room M1)</i>	
12:30–14:00	Lunch Break	
14:00–16:00	Main Session M9	Closing Session
	<i>(Conference Room M1)</i>	

Oral presentations

The duration of the oral presentations already includes time for discussion.

Presentation type	Presentation length
Ministerial statements	5-7 min
Main Session	20 min including 5 min discussion

Technical Sessions

Contributed papers	20 min including 5 min discussion
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Display of posters

Posters will be on display throughout the conference in the M-building, M02 Foyer. Poster sessions will be held during coffee breaks Tuesday to Thursday. Poster authors are requested to be at their posters during the poster sessions.

Exhibits

Exhibits will be shown in the M-building from Monday to Friday.

PROVISIONAL

SUNDAY, 30 JUNE 2013

- 15:00–18:30** Registration and distribution of conference material
- 17:00–19:00** Welcome Reception hosted by the IAEA Office of Nuclear Security

MONDAY, 1 JULY 2013

- 08:00** Registration and distribution of conference material (continued)

- 10:00–13:00** **MINISTERIAL SESSION***
(*Conference Room M1*)

Chairpersons: **H.E. J. Martonyi, Hungary**

H.E. J. Martonyi, Hungary
Conference President
Minister of Foreign Affairs
Hungary

Opening remarks

Y. Amano, IAEA
Director General

Opening statement

Statements by Ministers

-
- 13:00–15:00** Lunch Break
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A luncheon for Ministers and other Heads of Delegation will be co-hosted by the IAEA Director General and the Minister of Foreign Affairs of Hungary in the VIC Restaurant

- 15:00–17:00** **MINISTERIAL SESSION (continued)**

Statements by Ministers

- 17:00–17:30** **Adoption of the Ministerial Declaration**

- 17:30–19:30** **MINISTERIAL SESSION (continued)**

Statements by Ministers and other Heads of Delegation

TUESDAY, 2 JULY 2013

09:00–12:00 **MINISTERIAL SESSION (continued)**

(Conference Room M1)

Chairperson: **H.E. J. Martonyi, Hungary**

Statements by Heads of Delegation

12:00–13:00 **MAIN SESSION M2:
Introduction**

(Conference Room M1)

D. Flory, IAEA
Deputy Director General
Department of Nuclear Safety and Security

Introductory remarks by the IAEA

A. Kane, UN
UN High Representative for Disarmament
Affairs

Introductory remarks by the UN

D. Ristori, EU
Director General
Joint Research Centre
European Commission

Introductory remarks by the EU

13:00-14:00 Lunch Break

TUESDAY, 2 JULY 2013

09:00–12:30 **TECHNICAL SESSION TA2:**
Information and Cyber Security
(Boardroom A)

Chairpersons: **M. Caspers, Germany**
 S. Parulkar, India

Rapporteur: **F. Eltawila, United Arab Emirates**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
173	J.-H. Lee J.-K. Kim K.H. Kwon	Korea, Republic of	A Study of Regulatory Guidelines of Cyber Security in Nuclear Facilities
242	M. Awan M. Alamgeer	Pakistan	Cyber Security for Nuclear Facilities: Role of Regulatory Body
151	B. Govers R. Duiven T. van den Berk	Netherlands	@tomic 2012: an Exercise in Perspective
281	R. Busquim e Silva A. Ferreira Marques	Brazil	Digital Instrumentation & Control (I&C) Systems and Cyber Security: Is Supply Chain the Weak Link?
335	C. Glantz G. Landine P. Craig R. Bass	United States of America	Lessons Learned in Over a Decade of Technical Support for U.S. Nuclear Cyber Security Programs

10:50–11:30 Coffee Break and Poster Viewing Session

11:30–12:30 **Panel Session:** State activities for
protecting nuclear and other radioactive
material facilities against cyber attack

M. Caspers Germany
S. Parulkar India
P. Karhu Finland
M. Schraever Netherlands
R. Anderson United States of
 America

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
139	P. Karhu T. Wiander L. Reiman	Finland	DBT Method in Finland: Progressive Levels of Physical and Cyber Threat
152	M. Schraver	Netherlands	@tomic 2012 Seminar on Design Basis Threat for Cyber Attacks on the Nuclear Sector
291	R. Anderson	United States of America	Current and Emerging Cyber Threats to Industrial Control Systems at Nuclear Facilities

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
050	D. Dudenhoeffer	IAEA	IAEA Computer Security Initiative
117	R. Rosano	United States of America (Non-governmental)	Sharing Sensitive Information Across International Borders

TUESDAY, 2 JULY 2013

**09:00–13:00 TECHNICAL SESSION TB5:
Safety-Security Interfaces**
(Conference Room M2)

Chairpersons: R. Awad, Canada
J. Lolich, Argentina

Rapporteur: A. Elabd, Egypt

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
118	R. Rosano	United States of America (Non- governmental)	Security for Alternative Nuclear Designs
180	J. Jalouneix J. Aurelle	France	Safety-Security Interface in Emergency Situations
257	S. Nishida N. Sugimoto S. Sato	Japan	Comprehensive Nuclear Security Strategies for Nuclear Power Plants (Based on Lessons Learned from the Fukushima Accident and IAEA Recommendations)
175	M. Koh K.H. Kwon M.T. Jung	Korea, Republic of	A Study on the Integrated Approach to Nuclear Safety and Security Interface in the ROK
321	G. Vieru L. Biro	Romania	Romanian Experience on Nuclear Safety and Security Framework

10:50–11:10 Coffee Break and Poster Viewing Session

160	N. Klos	Ukraine	Relationship between Nuclear Security Culture and Nuclear Safety Culture and Their Role in Safe Operation of Nuclear Power Facilities
404	J.-L. Lautier J. Ruer S. Forja T. Orosco H. Bonneau	France	The French Nuclear Power Plants' Protection Against Malevolent Acts or Sabotage: a Global and Shared Approach of Nuclear Safety and Security Interface

11:50–12:50

Panel Session: Identifying means of compatibility between nuclear security and safety

J.-L. Lautier, J. Ruer	France
J. Jalouneix	France
S. Nishida	Japan
M. Koh	Korea, Republic of
G. Vieru	Romania
R. Rosano	United States of America (Non-governmental)
N. Klos	Ukraine

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
412	T. Tsvetkov A. Bewsonnyi E. Kushnir	Russian Federation	Potential Trends on Nuclear Safety and Nuclear Security Interaction
415	A. Agapov A. Zakhartsev T. Tsvetkov R. Ovchinnikov	Russian Federation	Integration of Physical Protection, Nuclear Safety, Non-Proliferation of Nuclear Materials and Elimination of Nuclear Accidents Enhances Effectiveness of Systems Ensuring Nuclear Security of Nuclear Facilities and Materials

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
112	T. Sandev G. Angelovski	Macedonia, FYR	Interfaces Between Security and Safety in the Macedonian Legislation and Regulations
325	R. Stegemann I. Schwiering W. Voss	Germany	Germany's Practice Towards Security of Radioactive Sources

TUESDAY, 2 JULY 2013

14:00–18:00 **MAIN SESSION M3:**
Implementing and Enhancing the
International Nuclear Security Framework

(Conference Room M1)

Chairpersons: **G. Berdennikov, Russian Federation**
 A. Harrington, United States of America

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
010	G. Terigi	Argentina	Promoting Entry into Force of CPPNM Amendment
011	M. Requena	UNODC	International Legal Framework Against Nuclear Terrorism
012	S. McIntosh	Australia	Code of Conduct on the Safety and Security of Radioactive Sources
277	J. Herbach	Netherlands	Strengthening the International Legal Framework for Nuclear Security
334	R. Floyd S. Bayer M. East	Australia	Building International Confidence in Nuclear Security Practices
015	L. Holgate	United States of America	Further Strengthening the Implementation and Enhancement of the International Nuclear Security Framework
016	I. Barraclough K. Mrabit	IAEA	The IAEA's Nuclear Security Fundamentals and Related NSS Publications

General Q & A

Invited speakers of the session

K. Mrabit IAEA

P. Johnson IAEA

TUESDAY, 2 JULY 2013

14:00–17:30 **TECHNICAL SESSION TA3:**
Enhancing Nuclear Security Regimes II
(Boardroom A)

Chairpersons: **N. Uetake, Japan**
 L. Bloomfield Torres, Brazil

Rapporteur: **A. Shakoor, Pakistan**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
205	W. Bowen L. van Dassen	United Kingdom	Nuclear Security and the Three “Pillars” of the NPT: Identifying a Lasting Relationship
298	M. Bunn E. Harrell	Belfer Center	Strengthening Global Approaches to Nuclear Security
120	Y. Opanasiuk V. Kuznetsov E. Sokolov V.Kuzenkov	Russian Federation	Peculiar Features of Implementing Physical Protection For Transportable Nuclear Installations
258	E. Melamed P. O'Brien A. Cuthbertson A. Johnston	United States of America	Principles Governing the Sustainability of Nuclear Security Regimes
129	T. Iida K. Tanuma K. Ochiai T. Yamaguchi	Japan	Enhancement of Physical Protection Measures at JAEA Based on the Revised Regulation Reflecting the Accident of Fukushima Daiichi NPP and INFCIRC/225/Revision 5

15:50–16:20 Coffee Break and Poster Viewing Session

332	J. Rivers O. Bukharin	United States of America	U.S. Nuclear Regulatory Commission Staff's Approach to Incorporate the Attractiveness of Nuclear Material to Adversaries into its Graded Approach to Security
141	L. van Dassen V. Sandberg V. Fedchenko	Sweden	From North to South: Cooperation Between Sweden and Russia on the Establishment of Systems to Combat the Illicit Trade in Nuclear and Radioactive Materials
418	G. Deng	China	Enhancing Capacity Building through International Cooperation

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
121	V. Kuznetsov Y. Opanasiuk V. Shmelev	Russian Federation	The Approaches to the Transportable Nuclear Power Plants' Safety Assurance
268	D. Dominguez J. Parks	United States of America	Special Nuclear Material and Critical Infrastructure Security Modeling and Simulation of Physical Protection Systems
146	Y. Opanasiuk A. Bushlia N. Geraskin V. Shmelev	Russian Federation	Ethics Code (Nuclear Security Memo) for Personnel of Nuclear-Hazardous Facilities
183	H. Auld	United Kingdom	Using Security Use Cases to Understand the Impact of Security on Users
254	F. Duran D. Dominguez M. Parks B. Cipiti	United States of America	Security Modeling and Simulation to Address the Insider Threat
255	F. Duran	United States of America	Insider Threat Analysis: Methods and Applications for Facility Security Operations
171	J.-H. Lee H.-C. Kim	Korea, Republic of	Development of 3D Software for Evaluating Physical Protection System Design

TUESDAY, 2 JULY 2013

14:00–17:50 **TECHNICAL SESSION TB3:**
Threat Characterization and Assessment
(Conference Room M2)

Chairpersons: **N. Fragoyannis, United States of America**
A. Natio Lasman, Indonesia

Rapporteur: **S. Repanovici, Romania (on Threat)**
D. Hasted, United Kingdom (on Transport)

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
293	E. Sokova A. Khlopkov	VCDNP	Applying Best Practices of the Cooperative Threat Reduction Program to Advancing a Global Nuclear Security Agenda
256	F. Duran G. Wyss S. Jordan B. Cipiti	United States of America	Risk-Informed Management of Enterprise Security: Methodology and Applications for Nuclear Facilities
139	P. Karhu T. Wiander L. Reiman	Finland	DBT Method in Finland: Progressive Levels of Physical and Cyber Threat
333	S. Bayer M. East R. Floyd	Australia	Revising Australia's Design Basis Threat
194	R. Eddy R. Brigantic	United States of America	Employing the Radiological and Nuclear Risk Analysis Model (RNRAM) for Assessing Radiological and Nuclear Detection Architectures

15:50–16:30 Coffee Break and Poster Viewing Session

312 **M. Fynn** United Kingdom The UK Experience in Developing a Design Based Threat Matrix
J. Jacobs

16:50 Session Introduction on Transport Security

313 **D. Hasted** United Kingdom The UK Experience of International Maritime Transport of Nuclear Material

17:20–18:00

Panel Session: Best Practices to Reduce Risks in Transport of Nuclear and Radioactive Material

W. Graf Germany
W. Kustiana Indonesia
H. Noh Korea, Republic of
D. Hasted United Kingdom
H.-J. Neau WNTI

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
156	S. Sagan	United States of America (Non-governmental)	Insider Threats in Comparative Perspective
308	P. O'Brien R. Larsen R. Duggan C. Sharmer	United States of America	Nuclear Security – Identification, Analysis and Mitigation of the Unexpected Insider
168	W. Kustiana M. Solichah M. Abidin	Indonesia	Security for Nuclear Material during Transport in Indonesia
285	W. Graf	Germany	Industrial Perspective and Experience on Security during Transport of Vitrified Residues from France to Germany
409	H.-J. Neau	WNTI	Transporting Radioactive Materials Securely – Industry Experience

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
190	G. Muller R. Brigantic A. Sanfilippo D. Henderson M. Lancaster S. Chikkagoudar C. Perkins J. Teuton S. Dowson	United States of America	Synthetic Illicit Nuclear Trafficking Model and State Estimation Framework

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
296	W. Buckley D. Mercer	United States of America	Threat Assessment of Radiation Alarms
297	W. Buckley	United States of America	Alarm History Awareness as an Aid to Threat Assessment
288	H. Noh I.-S. Hwang	Korea, Republic of	Scenario Analysis on Maritime Transportation Security of Spent Nuclear Fuel

WEDNESDAY, 3 JULY 2013

09:00–12:30 **MAIN SESSION M4:**
Nuclear Material and Nuclear Facilities
(Conference Room M1)

Chairpersons: **J. Esteves dos Santos, Brazil**
 D. Liu, China

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
017	A. Freer	United Kingdom	Achieving Sustainable and Effective Physical Protection Systems
410	V. Kuchinov V. Pitel V. Efimenko	Russian Federation	Role of Nuclear Material Accounting and Control System for Ensuring Nuclear Security
019	C. Bolton	United Kingdom	Security by Design
020	C. Quintin	France	Enhancing Security of Nuclear Material – An Integrated Approach
021	J. Dally	United Kingdom	Security of Sensitive Information
022	J. Wiggins C. Erlanger T. Harris	United States of America	Regulatory Efforts to Improve Cyber Security

Reports from technical session TA2, TB2, TA3, TB3, TB5, TB6

Panel: Experience in implementing
INFCIRC/225/Rev.5

Invited speakers of the session

K. Naito Japan

WEDNESDAY, 3 JULY 2013

09:00–12:30 TECHNICAL SESSION TA4:
Security of Radioactive Sources
(Boardroom A)

Chairpersons: **A. Mastauskas, Lithuania**
L.A. Betancourt Hernandez, Cuba

Rapporteur: **R. Severa, Zimbabwe**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
249	Y. Mohamed M. Hasan Y. Lasheen	Egypt	Management of Disused Radioactive Sealed Sources in Egypt: Security Prospective
106	B. Sevestre	France	Security of Radioactive Sources France – IAEA Cooperation
125	A. Murray A. Popp J. Bus	Australia	Training and Development for the Security of Radioactive Sources – Promoting Effectiveness and Sustainability
236	K. Luongo S. Williams	Partnership for Global Security	Regional Radiological Security Zones: Improving on Progress made at the Nuclear Security Summits to Better Secure Radioactive Sources
051	B. Waud C. George	IAEA	Working Group on Radioactive Source Security

10:50–11:30 Coffee Break and Poster Viewing Session

**11:30–12:30 Panel Session: Improving source security:
lessons learned**

A. Murray Australia
S. Islam Bangladesh
J. Zafimanjato Madagascar
J.-W. Kwon Korea, Republic of
**A. Hikkaduwa
Liyanage** Sri Lanka
I. Iliopoulos United States of
America

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
126	A. Murray A. Popp J. Bus	Australia	Australia's South East Asia Regional Security of Radioactive Sources Project – Achievements and Lessons Learned
209	I. Iliopoulos A. Cuthbertson W. Rhodes	United States of America	The United States' Global Threat Reduction Initiative Domestic Security Program

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
131	U. Mirsaidov M. Akhmedov M. Barotov I. Mirsaidov	Tajikistan	Experience of the Republic of Tajikistan in Implementing the Code of Conduct
142	A. Mastauskas	Lithuania	Physical Security of Radioactive Sources in Lithuania
159	J. Zafimanjato R. Andriambololona H. Randriantseheno R. Randriantsizafy T. Randriamora	Madagascar	Status of Security for Radioactive Sources and Their Associated Facilities in Madagascar
165	A. Hikkaduwa Liyanage P. Kadadunna K. De Silva	Sri Lanka	Strengthening Security of Radioactive Sources Used in Sri Lanka under Regulatory Control
233	L. Betancourt Hernandez Y. López Forteza P. Díaz Guerra N. Navarro Guillén	Cuba	Lessons and Challenges in the Regulatory Control of Safety and Security of Radiation Sources: the Cuban Experience
307	S. Islam Md. Shawkat Akbar Md. Emdadul Haque H. Borhanul Alam	Bangladesh	Security of Radioactive Sources and Nuclear Materials in Bangladesh
329	C. Hobbs W. Bowen D. Jones	United Kingdom	Estimating Inventories of Radiological Sources
276	J. Quinones F. Pino J. Benavente P. Casado L. Ferrera	Spain	Nuclear and Radioactive Material Security at CIEMAT

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
401	J.-W. Kwon Z.-H. Woo I.-Y. Yeo M.-C. Song W.-T. Kim K.-H. Jeong	Korea, Republic of	Status of Implementation and Experience in Security of Radioactive Sources in Korea
419	A. Simo	Cameroon	Building Security Infrastructure for Radioactive Sources and Associated Facilities in Less Developed Countries

PROVISIONAL

PROVISIONAL

WEDNESDAY, 3 JULY 2013

09:00–12:30 TECHNICAL SESSION TB4:
Education and Training
(Conference Room M2)

Chairpersons: **O. Reistad, Norway**
M. Beaudette, Canada

Rapporteur: **J. Sterba, Austria**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
124	A. Choukri O. Hakam	Morocco	Efforts in Progress to Establish Nuclear Security Education in Morocco
161	N. Klos T. Checurda	Ukraine	Training and Professional Development of Specialists in Nuclear Materials Physical Protection, Accounting and Control in Ukraine
315	M. Kostor R. Raja Adnan	Malaysia	Nuclear Security Support Centre (NSSC): Role in Developing Nuclear Security Capability in Malaysia
245	A. Badawi H. Abou Gabal W. Zidan	Egypt	An Overview of Nuclear Security Education in Egypt: Current Status and Future Perspective
336	G. Gluschke	Germany	Development of Modules for an MSc Programme on Nuclear Security

10:50-11:30 Coffee Break and Poster Viewing Session

279	J. Harris	United States of America	International Nuclear Security Education Network (INSEN): Past Accomplishments and Future Plans
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11:50–12:30 Panel Session: Practical Application of Nuclear Security Education and Training

O. Reistad	Norway
M. Beaudette	Canada
N. Kawata	Japan
J. Stainback IV	United States of America (Non-governmental)

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
269	N. Kawata S. Wakabayashi T. Hanai Y. Yamaguchi N. Nonaka C. Scharmer	Japan	Development of the Training Tools for Nuclear Security-Physical Protection Exercise Field (PPEF) and Virtual Reality (VR) Training System
238	J. Stainback IV H. Hall	United States of America (Non-governmental)	Building the Academic Nuclear Security Program at the University of Tennessee
403	T. Majeed	Pakistan	MS Nuclear Security Education at Pakistan Institute of Engineering and Applied Sciences (PIEAS): The Current Status and the Future Prospects

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
294	V. Berthou K. Mayer P. Peerani W. Janssens	EC/JRC	Overview of the Cooperative Projects Implemented by the European Commission Joint Research Centre in the Nuclear Security Field Outside Europe
223	K. Unlu I. Jovanovic A. Contreras	United States of America (Non-governmental)	Nuclear Security Education Program at the Pennsylvania State University
272	N. Noro R. Matsuzawa Y. Naoi C. Scharmer	Japan	COE's Efforts on Curriculum Development for Nuclear Security Training Courses

WEDNESDAY, 3 JULY 2013

14:00–18:00 **MAIN SESSION M5:**
Radioactive Sources and Associated
Facilities

(Conference Room M1)

Chairpersons: **G. Emi-Reynolds, Ghana**
 B. Nsouli, Lebanon

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
023	R. Czarwinski	Germany	The Code of Conduct as a Means to Enhance Global Efforts
024	A. Shakoor	Pakistan	Implementing the IAEA's Recommendations for Security of Radioactive Material and Associated Facilities
025	A. Dela Rosa J. Seguis	Philippines	The Value of Regional Cooperation for Source Security
026	C. Elechosa S. Menossi	Argentina	Secure Transport of Radioactive Sources
227	J.-L. Lachaume G. Bélot C. Reuter	France	Managing Prevention and Control over Radioactive Sources
208	F. Morris B. Reed A. Murray	United States of America	The Distinctive Challenges of Protecting Radioactive Sources

Reports from technical session TB3, TA4, TB5

Panel: Development of a comprehensive
programme for the security of radioactive
sources

Invited speakers of the session

I. Iliopoulos United States of
 America

WEDNESDAY, 3 JULY 2013

14:00–18:00 **TECHNICAL SESSION TA5:
Structured Capacity Building**
(Boardroom A)

Chairpersons: **A. Habib, Pakistan**
 A. Koteng, Kenya

Rapporteur: **I. Soufi, Morocco**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
244	Y. Hernández Martín M. Landeras Alvarez	Cuba	The Integrated Nuclear Security Support Plan: Cuban Experience
286	P. Deatanyah G. Emi-Reynolds	Ghana	The Development and Implementation of Integrated Nuclear Security Support Plan: Ghana's Experience
302	M. Sinaga	Indonesia	Lesson Learned for Implementing Integrated Nuclear Security Support Plan (INSSP) in Indonesia
317	H. Attan R. Raja Adnan	Malaysia	Malaysia's Experience with INSSPs and Lessons for the Future
300	I. Balan	Moldova, Republic of	INSSP as Efficient Lever in Upgrade of Moldovan Regulatory Capabilities in Nuclear Security and Response to Illicit Traffic Events

15:50-16:30 Coffee Break and Poster Viewing Session

231	D. Louvat J. Jalouneix A. Braunegger- Guelich	ENSTTI	Preparation of a Competent Nuclear Security and Safety Workforce: the Role of Technical Safety Organizations in Building Up Integrated Knowledge and Skills
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16:50–17:30 **Panel Session: Lessons Learned from
Recent Capacity Building Initiatives**

K. Hamada	Japan
J. Doyle	United States of America
I. Krevica	EC/JRC
A. Fataftah	NAUSS
R. Howsley	WINS

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
271	K. Hamada Y. Naoi M. Senzaki	Japan	Lessons Learned and the Prospects of ISCN's Nuclear Security Capacity Building Support
323	A. Fataftah	NAUSS	Efforts of Naif Arab University for Security Sciences to Enhance Nuclear Security in the Arab Countries
153	J. Doyle	United States of America	Towards an INSEN Strategy for Engaging International Centres for Nuclear Security and Energy
299	R. Howsley	WINS	The Need for Structured Professional Development and Certification amongst Personnel with Accountabilities for Nuclear Security Management and Regulation
408	M. Roumie B. Nsouli P. El-Hajj M. Schreif	Lebanon	Enhancement and Sustainability of National Collective Efforts to Combat Nuclear Illicit Trafficking in Lebanon
416	T. Piskureva N. Geraskin V. Kornelyuk	Russian Federation	The Basic Directions of Physical Nuclear Security Culture Development

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
188	I. Krevica J. Galy V. Berthou E. Hrneckek M. Marin Ferrer K. Mayer P. Peerani P. Richir V. Forcina M. Wallenius	EC/JRC	EUSECTRA: a European Nuclear Security Training Centre for Capacity Building and State Support in Combating Illicit Trafficking of Nuclear and Radioactive Materials
179	B. Kaboro J. Kamande A. Koteng	Kenya	Kenya Nuclear Security Support Centre
174	K.-K. Choe J. Lee	Korea, Republic of	International Nuclear Security Academy (INSA) of the ROK: How Could it Contribute for Strengthening Nuclear Security?
123	A. Buzdugan I. Balan E. Mursa A. Sidorencu	Moldova, Republic of	Progress in Nuclear Security Policy in the Republic of Moldova

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
319	J. Mamasakhlisi	Georgia	Enhancing of Regulatory Control in Georgia – Main Trends and Current Developments

PROVISIONAL

PROVISIONAL

WEDNESDAY, 3 JULY 2013

14:00–18:00 **TECHNICAL SESSION TB2:**
Enhancing Physical Protection Regimes
(Conference Room M2)

Chairpersons: **B. Dal, Netherlands**
 C. Price, United Kingdom

Rapporteur: **K. Horváth, Hungary**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
213	I. Iliopoulos A. Cuthbertson G. Herdes	United States of America	Global Threat Reduction Initiative (GTRI) Sustainable Security Program
234	G. Dandrieux	France	Experience Feedback and Benefits of an IPPAS Mission from a Regulator's Perspective
215	K. Naito	Japan	Nuclear Security Regime in Japan: Policies and Activities of Japanese Government
305	S. Isaksson	Sweden	Swedish Experiences and Benefits of Hosting an IPPAS Mission
169	M. Abidin M. Solichah W. Kustiana	Indonesia	Enhancement of Nuclear Security Culture in Indonesia: Regulatory Body Overview

15:50–16:30 Coffee Break and Poster Viewing Session

219	K. Kovalev	Russian Federation	Regulation of Nuclear Security in the Russian Federation
239	T. Kamara W. Zidan	Egypt	Enhancement of Nuclear Security Measures: Egyptian Case

17:10–18:00 **Panel Session: Impact of IPPAS Missions**

B. Dal	Netherlands
H. Khedr Ibrahim	Egypt
M. Riihonen	Finland
K. Horvath	Hungary
S. Repanovici	Romania
J. Václav	Slovakia

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
318	K. Horvath	Hungary	IPPAS Mission to Hungary
311	M. Riihonen R. Olander	Finland	Finnish Experiences from Hosting IAEA International Physical Protection Advisory Service (IPPAS) Missions
309	S. Repanovici	Romania	The Role of IPPAS Mission on Implementing and Enhancing the International Nuclear Security Framework – Romanian Experience and Perspective
320	B. Dal	Netherlands	The Netherlands Experience with IPPAS Missions
221	J. Václav	Slovakia	Implementation of Amendment to CPPNM in Slovakia
114	H. Khedr Ibrahim W. El-Gammal W. Zidan	Egypt	Design and Implementation of a Computerized Integrated Nuclear Material Accounting System for Egypt
413	A. Izmaylov	Russian Federation	Development and Implementation of Tools to Assess Effectiveness of Physical Protection Systems for the Russian Nuclear Sites

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
278	A. Keizer	Netherlands	Organization of the Nuclear Industry Summit 2014 in Amsterdam
130	M. Civica V. Ferrazzano A. La Rosa A. Usai	Italy	Web Architecture for the Development of Nuclear Security: Models, Parameters and Indicators for the Deployment of a New Democracy in the “Open” Management of Assets, Technology and Know How
172	J.S. Kim H.-S. Yoo	Korea, Republic of	The Progress for Consolidating the Physical Protection Legislative Framework in ROK
187	R. Zarate	Chile	Nuclear Security Status in Chile

THURSDAY, 4 JULY 2013

09:00–12:30 **MAIN SESSION M6:**
International Cooperation and Assistance,
and the Role of the IAEA

(Conference Room M1)

Chairpersons: **T. Countryman, United States of America**
A. Farhane, Morocco

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
029	K. Mrabit	IAEA	International Cooperation: The Role and Activities of the IAEA
030	R. Hardiman	G8GP	Multilateral Initiatives: G8 Global Partnership (G8GP)
031	G. Berdennikov G.S. Min	GICNT	Multilateral Initiatives : Global Initiative to Combat Nuclear Terrorism (GICNT)
032	H. Mattli R. de la Vega	ENSRA	Information Sharing and Collaborative Approaches
033	S. Al Kaabi H. Al Kaabi D. Winter	United Arab Emirates	Experience of an Embarking Country
034	R. Raja Adnan	Malaysia	Integrating or Coordinating Initiatives

Reports from technical session TB4, TA5

Panel: Bilateral and regional cooperation
and assistance

Invited speakers of the session

S. Limage United States of
America

S. Abousahl EC

B. El Oumni UNSC 1540
Committee

THURSDAY, 4 JULY 2013

09:00–12:30 **TECHNICAL SESSION TA6:**
Detection and Response Architecture
(Boardroom A)

Chairpersons: **M. Wittrock, United States of America**
 A. Ortiz Olmo, Spain

Rapporteur: **M.H. Baharom, Malaysia**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
226	V. Rouillet-Chatelus R. Pappas V. Berthou J. Galy	IAEA	The Importance of Properly Performed Assessments of Needs, Integrated Planning and Informed Guidance Documents in Nuclear Security Assistance to States
107	W. Potter	James Martin Center for Nonproliferation Studies	International Cooperation for Nuclear Security: Designing a New Architecture Based on Lessons from Prior Experiences
250	W. Janssens R. Chatelus Q. Michel	EC/JRC	Enhancing Nuclear Security by Increasing the Synergies between Combating Illicit Trafficking of Nuclear Materials and Controlling Strategic Trade of Dual-Use Items Related to Nuclear Weapons and Other Nuclear Explosive Activities
166	A. Lasman	Indonesia	Perspective on the Development of Nuclear Security in Indonesia

10:30-11:10 Coffee Break and Poster Viewing Session

316	M. Mohd Nordin M. Baharom	Malaysia	Role of National Coordination for Effective Border Monitoring Activity
243	A. Ullah S. Munir M. Sadiq	Pakistan	Expert Reach Back in Case of Nuclear Security Events (NSEs)

11:50–12:40 **Panel Session:** Implementing and
sustaining effective systems and
measures for the detection of material
out of regulatory control – best practices

T. Hack	Finland	D. Makanve	Tanzania
A. Maltezos	Greece	E. Melamed	United States of America
A. Oprea	Moldova, Republic of	W. Stern	United States of America

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
140	T. Hack P. Karhu R. Olander	Finland	National Nuclear Security Practice in Finland: a Joint Effort
216	A. Maltezos A. Boziari T.E. Matikas	Greece	Upgrading of Nuclear Security Measures in Cargo Area Installations in Seaport in Piraeus
224	E. Melamed S. Abousahl V. Rouillet-Chatelus	United States of America	Best Practices in Collaborative Assistance to States in Deploying and Sustaining Radiation Detection Systems for Combating Criminal Use of Nuclear and Other Radioactive Material and Illicit Trafficking
228	D. Makanve	Tanzania, United Republic of	Current Challenges of Nuclear Security in Tanzania
310	A. Oprea	Moldova, Republic of	Improving Capabilities in the Republic of Moldova in Combating Illicit Trafficking of Nuclear and Radiological Materials through Training on Responding to Nuclear Incidents/Accident at Border
136	W. Stern	United States of America	Revolution in Nuclear Detection Technology: How Changes in Nuclear Detection Technology have altered Nuclear Security Opportunities and What Revolutions in Technology can we Expect in the Future
417	A. Ermakov	Russian Federation	On the Measures for Combating Illicit Trafficking of Radioactive Materials
418	J. Zhang Z. Yuan	China	Integrated Security Monitoring & Control System Enhancing Nuclear Security

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
158	S. Watson S. Gonzales	United States of America	A Compact, Portable X-Ray System for Field Inspection
182	R. Chandra G. Davatz D. Murer P. Peerani H. Tagziria M. Ellis D. Blackie	Switzerland	FLASH Portals Program: Preliminary Results and Potential Impact
217	A. Maltezos A. Boziari T. Matikas	Greece	Portal Monitor Operation in Greece: Statistical Analysis

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
222	P. de Bruin	Netherlands	The Value of the Industry in the Fight against Illicit Trade of Nuclear Material
225	J. Galy V. Berthou R. Pappas V. Rouillet-Chatelus	EC/JRC	The Role of Training Facilities and Other Indigenizing Methods in Assisting States Establish and Maintain the Requisite Training Capacity in Nuclear Security
230	S. Amataj	Albania	IANP's Achievements and Problems in Detecting and Combating Illicit Trafficking in Nuclear and Other Radioactive Materials in Albania

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THURSDAY, 4 JULY 2013

**09:00–12:30 TECHNICAL SESSION TB6:
Nuclear Security at Nuclear Facilities**
(Conference Room M2)

Chairpersons: R. Kesvani, India
A. Izmaylov, Russian Federation

Rapporteur: P. Carroll, United Kingdom

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
232	G. Amakali A. Tibinyane N. Uushona L. Mundia	Namibia	Securing Uranium Ore Products: Namibian Perspective
330	J. Lolich V. Kryuchenkov	Argentina	Unique Research Reactor Features Potentially Impacting Nuclear Security
292	J. Peterschmitt G. Omnes F. Mariotte E. Bonnevie L. Darasse H. Péron A. de Hauteclocque O. Richardot	France	CEA Strategy for Site Protection and Associated Security Exercise Policy
143	P. Jones	Australia	The Periodic Security Review – An Australian Research Reactor Experience
128	T. Eluvathingal L. Mahale F. Lall	India	Regulatory Review of Nuclear Security Aspects of Nuclear Power Plants and Projects
10:50-11:30	Coffee Break and Poster Viewing Session		
220	A. Renner	Germany	Security Concepts for Nuclear Power Plants During Decommissioning and Dismantling

11:50–12:30

Panel Session: Unique features of specific nuclear facilities affecting nuclear security

J. Lolich	Argentina
A. Renner	Germany
A. Vincze	Hungary
M. Solichah	Indonesia
T. Inoue	Japan
A. Keizer	Netherlands
P. Staples	United States of America

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
104	A. Keizer	Netherlands	Experiences with Nuclear Industry Force on Force Team Exercises in the Netherlands
147	A. Vincze Zs. Stefánka J. Sáfár T. Katona K. Horváth	Hungary	Experiences in the New Nuclear Security Regulatory Framework in Hungary
167	M. Solichah M. Abidin W. Kustiana	Indonesia	Indonesia's Experience and Good Practices in Implementing Physical Protection
211	P. Staples J. Chamberlin C. Landers J. Raber R. Hamilton J. Dix	United States of America	International Cooperation to Minimize the Use of Highly Enriched Uranium in Civilian Applications
270	T. Inoue T. Yamaguchi M. Suzuki	Japan	HEU Minimization on Research Reactors in JAEA
411	E. Koloskova	Russian Federation	The Main Activities in Providing Physical Nuclear Security at Creation, Reconstruction and Modernization of Objects

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
122	S. Syarip I. Puradwi	Indonesia	Experience on the Improvement and Implementation of Physical Protection System of Kartini Research Reactor
289	F. Padoani F. Rossi A. Guglielmelli F. Rocchi	Italy	Impact of a Security Event on a TRIGA Reactor
157	H. Foy	Ghana	HEU Minimization: Progress and Next Steps
240	Z. Baig A. Shakoor R. Mahmood	Pakistan	Legal and Regulatory Framework for Physical Protection in Pakistan

THURSDAY, 4 JULY 2013

14:00–18:00 **MAIN SESSION M7:
Building and Sustaining a Nuclear
Security Culture**

(Conference Room M1)

Chairpersons: **M. Senzaki, Japan
E. Bonnevie, France**

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
203	T. Fanghänel K. Mayer W. Janssens K. Lützenkirchen S. Abousahl J. Galy P. Sevini P. Peerani V. Sequeira	EC/JRC	Detection of and Response to the Needs in Nuclear Security: the Roles of a Nuclear Research Institute
214	D. van den Berg	TU Delft	Human Capacity Building in Nuclear Security
037	Khairul F. Hermana I. Khripunov D. Nikonov	Indonesia	Nuclear Security Culture in Practice
038	K.-K. Choe J.-H. Lee	Korea, Republic of	Nuclear Security Center of Excellence (CoE) in Northeast Asia: Features and Interdependent Collaboration
039	A. Harrington	United States of America	Sustainability of Systems and Measures

Reports from technical session TB4, TA5

Panel: Effective nuclear security culture

Invited speakers of the session

THURSDAY, 4 JULY 2013

**14:00–17:30 TECHNICAL SESSION TA7:
Nuclear Forensics
(Boardroom A)**

**Chairpersons: N. Shinohara, Japan
B. Garrett, United States of America**

Rapporteur: S. Fendrich, United States of America

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
246	P. Thompson	United Kingdom	Nuclear Forensics: The First Two Decades
111	G. Graham D. Thomas	United Kingdom	Enabling Law Enforcement Organizations to Perform Traditional Forensics on Contaminated Evidence Recovered from a Crime Scene Involving the Use of Radiological / Nuclear Materials Outside of Regulatory Control
247	B. Garrett K. Mayer P. Thompson T. Bíró G. Lasou	United States of America	The Nuclear Forensics International Technical Working Group (ITWG): An Overview
184	D. Hill	Australia	Emerging Themes from GICNT Nuclear Forensics Working Group

15:30-16:10 Coffee Break and Poster Viewing Session

181	Z. Varga J. Krajko M. Wallenius K. Mayer	EC/JRC	On the Use and Limitations of Age Dating in Nuclear Safeguards and Forensics: State-of-the-Art Practices and the Way Forward
189	J. Schwantes W. Mei D. Smith	United States of America	The First International Training Course on Basic Nuclear Forensics Methodologies for Practitioners

16:50–17:30 Panel Session: Nuclear forensics requirements for law enforcement response

E. Kovacs-Szeles Hungary
E. van Zalen Netherlands
M. Curry United States of
America

A. King INTERPOL

SUMMARIZED PAPERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
197	E. van Zalen	Netherlands	Forensics in Nuclear Security
164	E. Kovacs-Szeles I. Almasi J. Bagi L. Lakosi	Hungary	Characterization of Confiscated Materials by Mass Spectrometry and Gamma-Spectrometry for Finding Relevant Signatures to Nuclear Forensics
405	O. Gaidar V. Tryshyn K. Knight T. Kayzar M. Robel	Ukraine	Development of a Nuclear Forensics Library in Ukraine
414	V. Stebelkov	Russian Federation	Detection and Investigation of Microparticles of Nuclear and Other Alpha-Emitting Materials

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
110	C. Watt D. Thomas	United Kingdom	Development of a Technical Nuclear Forensics Capability to Support the Analyses of Illicit Radiological and Nuclear Material
119	C. Venchiarutti Z. Varga A. Nicholl R. Eykens C. Hennessy J. Krajko S. Richter R. Jakopic Y. Aregbe K. Mayer	EC/JRC	Towards the First Certified Reference Material for U-Age Dating
138	L. Lakosi C. Nguyen J. Zsigrai	Hungary	Characterization of Uranium-Bearing Material of Unknown Origin by HRGS
162	D. Ho A. Berlizov A. Nicholl D. Manara Z. Varga K. Mayer T. Fanghänel	Singapore	The Use of Portable Raman Spectroscopy for Analysis of Uranium Ore Concentrates
196	H. Kalambuka	Kenya	A Conceptual Framework Towards Developing Chemometrics and Machine Learning Assisted Spectrometries for Rapid Nuclear Forensic Analysis

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
248	J. Schwantes O. Marsden B. Garrett K. Mayer	United States of America	Exercise Task Group of the Nuclear Forensics International Technical Working Group: Past Achievements and Future Plans for Collaborative Materials Exercises
274	Y. Kimura N. Shinohara K. Sato N. Toda Y. Shinoda A. Okubo M. Magara M. Watahiki Y. Kuno	Japan	Present Status and Future Plan of R&D on Nuclear Forensics Technology Development at JAEA

PROVISIONAL

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THURSDAY, 4 JULY 2013

14:00–18:40 **TECHNICAL SESSION TB7:**
Detection and Response Architecture II
(Conference Room M2)

Chairpersons: **H. Toivonen, Finland**
 B. Ntuane, South Africa

Rapporteur: **M. Reinhard, Australia**

ORAL PRESENTATIONS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
178	D. Massé D. Tilly D. Delacroix	France	French Organization and Technical Developments Concerning the RN Security of Major Events
326	B. Lange E. Kroeger R. Maier	Germany	Radiation Detection at Major Public Events from the Perspective of the German Federal Office for Radiation Protection
402	Z. Xu G. Deng	China	Feedback of Experience from Nuclear Security Arrangements During Beijing Summer Olympic Games
144	M. Reinhard N. Blagojevic D. Boardman T. Evans A. Flynn D. Hill E. Keegan E. Loi D. Prokopovich A. Sarbutt K. Smith K. Toole A. Wotherspoon	Australia	Nuclear Security Research at ANSTO: Advances in Nuclear Forensics and Nuclear Detection
275	M. Seya A. Bolind N. Kobayashi R. Hajima M. Kureta K. Soyama H. Harad	Japan	JAEA Development Programs of Advanced NDA Technologies of Nuclear Material

15:50-16:20 Coffee Break and Poster Viewing Session

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
170	F. Rosas P. Peerani G. Janssens- Maenhout P. Richir	EC/JRC	Investigation on the Exploitation of Spectroscopic Capabilities of Radiation Portal Monitors Based on Plastic Scintillator Detectors
218	A. Maltezos T. Matikas	Greece	Comprehensive Nuclear Security at Border Crossings
102	Th. Pelletier D. Delacroix D. Masse	France	CEA's Implication in Nuclear Security Events Detection and Response
155	M. Sossong	United States of America (Non- governmental)	Cosmic-Ray Muon Tomography Detection and Identification of Nuclear and Radiological Materials

17:40–18:40 **Panel Session:** Nuclear security measures at Major Public Events

M. Mietlinski	Poland	Polish Approach in Implementing Nuclear Security Measures at MPE
M. Vazquez Coutiño	Mexico	Nuclear Security Measures at MPE: Experience from Mexico
Z. Xu	China	Feedback of Experience from Nuclear Security Arrangements during Beijing Summer Olympic Games
H. Toivonen	Finland	Relocatable and Mobile Technology for Nuclear Security Detection Architecture
B. Ntuane	South Africa	South African Experience at MPE

POSTERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
186	L. Villanueva Zamora	Chile	Chilean Coordinated Response Team for Radiological Emergencies, Including Malevolent Acts
283	A. Curioni	Switzerland	The MODES_SNM Project
113	J. Stephens	United States of America (Non- governmental)	Infrastructure Safeguarding: Layered Response to Terrorist Threats Through Advanced Technology

FRIDAY, 5 JULY 2013

09:00–12:30 **MAIN SESSION M8:**
Addressing the Illicit Trafficking Threat
(Conference Room M1)

Chairpersons: **R. Duiven, Netherlands**
 C. Hinderstein, NTI

INVITED SPEAKERS

<i>No. of Paper IAEA-CN-203 /</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
198	R. Wesley M. Wallenius K. Mayer S. Kittley M. Nicholas E. Hrncek J. Hilliard	IAEA EC/JRC	Enhancing the IAEA Incident and Trafficking Database Programme
041	T. Matikas	Greece	Legal and Regulatory Framework in the Context of Prevention of Illicit Trafficking
042	A. King	INTERPOL	International Cooperation Framework for Law Enforcement
043	E. Melamed R. Pappas K. Bray	United States of America	Developing Effective Border Control
207	K. Mayer M. Wallenius Z. Varga	EC/JRC	Management of Expectations in Nuclear Forensics
045	M. Curry	United States of America	Inter-Agency Coordination

Reports from technical session TA6, TA7, TB7

Panel: Enhancing coordination nationally and internationally

Invited speakers of the session

FRIDAY, 5 JULY 2013

14:00–16:00

**MAIN SESSION M9:
Closing Session**

(Conference Room M1)

Chairperson:

Conference President

Main Session Co-Chairs

Reports from sessions M2-M8

Conference President

Summary of Conference

M. Mrabit, IAEA

Closing remarks by IAEA

Director, Office of Nuclear Security
Department of Nuclear Safety and Security

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IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

IAEA Nuclear Security Series No. 20 (2013)	Nuclear Security Fundamentals: Objective and Essential Elements of a State's Nuclear Security Regime
IAEA Nuclear Security Series No. 13 (2011)	Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Revision 5)
IAEA Nuclear Security Series No. 14 (2011)	Nuclear Security Recommendations on Radioactive Material and Associated Facilities
IAEA Nuclear Security Series No. 15 (2011) (Co-sponsored by EUROPOL, ICAO, INTERPOL, UNICRI, UNODC and WCO)	Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control
IAEA Nuclear Security Series No. 7: (2008)	Nuclear Security Culture, Implementing Guide
IAEA Nuclear Security Series No. 8 (2008)	Preventive and Protective Measures against Insider Threats, Implementing Guide
IAEA Nuclear Security Series No. 9 (2008)	Security in the Transport of Radioactive Material, Implementing Guide
IAEA Nuclear Security Series No. 10 (2009)	Development, Use and Maintenance of the Design Basis Threat, Implementing Guide
IAEA Nuclear Security Series No. 11 (2009)	Security of Radioactive Sources, Implementing Guide
IAEA Nuclear Security Series No. 18 (2012)	Nuclear Security Systems and Measures for Major Public Events, Implementing Guide
IAEA Nuclear Security Series No. 19 (2013)	Establishing the Nuclear Security Infrastructure for a Nuclear Power Programme, Implementing Guide
IAEA Nuclear Security Series No. 21 (2013)	Nuclear Security Systems and Measures for the Detection of Nuclear and Other Radioactive Material out of Regulatory Control, Implementing Guide
IAEA International Law Series No. 4 (2011)	The International Legal Framework for Nuclear Security
INFCIRC/274/Rev.1 (1980)	Convention on the Physical Protection of Nuclear Material

GOV/INF/2005/10–GC(49)INF/6 (2005)	Amendment to the Convention on the Physical Protection of Nuclear Material
IAEA/CODEOC/2004 (2004)	Code of Conduct on the Safety and Security of Radioactive Sources
IAEA/CODEOC/IMP-EXP/2005 (2005)	Guidance on the Import and Export of Radioactive Sources

**FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY
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2013

International Conference on Integrated Medical Imaging in
Cardiovascular Diseases
30 September-4 October 2013, Vienna, Austria

International Conference on Topical Issues in Nuclear
Installation Safety
21-24 October 2013, Vienna, Austria

International Conference on the Safety and Security of
Radioactive Sources: Maintaining the Continuous Global Control
of Sources throughout their Life Cycle
27-31 October 2013, Abu Dhabi, UAE

2014

International Experts' Meeting on Radiation Protection after the
Fukushima Daiichi Accident (IEM 6)
17-21 February 2014, Vienna, Austria

International Experts' Meeting on Severe Accident Management
in Light of the Accident at the Fukushima Daiichi Nuclear Power
Plant (IEM7)
10 - 14 March 2014, Vienna, Austria

International Conference on Challenges Faced by Technical and
Scientific Support Organizations (TSO) in Enhancing Nuclear
Safety and Security
7-11 April 2014, Beijing, China

International Conference on Human Resource Development for
Introducing and Expanding Nuclear Power Programmes: Building
and Sustaining Capacity
12-16 May 2014, Vienna, Austria

International Symposium on Understanding moderate
malnutrition of children under five years of age for effective
interventions
6-9 June 2014, Vienna, Austria

International Symposium on Uranium Raw Material for Nuclear
Fuel Cycle: Exploration, Mining, Production, Supply and Demand,
Economics and Environmental Issues
16-20 June 2014, Vienna, Austria

International Conference on Advances in Nuclear Forensics:
Countering the Evolving Threat of Nuclear and Other Radioactive
Material out of Regulatory Control
7-10 July, Vienna, Austria

Symposium on International Safeguards
17-24 October 2014, Vienna, Austria

25th Fusion Energy Conference (FEC2014)
13-18 October 2014, St. Petersburg, Russian Federation

International Symposium on Nuclear and Related Techniques for
Food Integrity, Traceability, Safety and Quality
10-14 November 2014, Vienna, Austria

International Conference on Occupational Radiation Protection
1-5 December 2014, Vienna, Austria

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