



IAEA

60 Years

Atoms for Peace and Development

International Conference on Physical Protection of Nuclear Material and Nuclear Facilities

13–17 November 2017, Vienna, Austria

PROGRAMME

Organized by the



IAEA

60 Years

Atoms for Peace and Development

in cooperation with the



WORLD INSTITUTE FOR
NUCLEAR SECURITY

**World Institute for Nuclear
Security (WINS)**



**World Nuclear Transport
Institute (WNTI)**



INTERPOL

**International Criminal Police
Organization (INTERPOL)**

IAEA International Conference on

Physical Protection of Nuclear Material and Nuclear Facilities

**13-17 November 2017
Vienna, Austria**

Programme

Introduction

Physical protection against unauthorized removal of nuclear material during use, storage and transport and against the sabotage of nuclear material and nuclear facilities during use, storage and transport has long been a matter of national and international concern and cooperation. In the light of this concern and in keeping with the tenets of the Convention on the Physical Protection of Nuclear Material (CPPNM) and its Amendment, the International Atomic Energy Agency (IAEA) has facilitated the development and publication of international consensus recommendations.

In support of the provisions of the CPPNM and its Amendment, the IAEA has established a comprehensive programme to assist Member States in developing and implementing their nuclear security regimes, especially regarding physical protection of nuclear material in facilities and during its transport.

This conference is being conducted in order to provide a forum for Member States to share their experiences, difficulties, lessons learned and good practices adopted during the implementation of INFCIRC/225/Rev.5. The conference will promote the universalization of the CPPNM and its Amendment, and valuable input is expected from Member States that are Contracting Parties to the CPPNM and its Amendment regarding the technical aspects of meeting their obligations deriving from these instruments.

Registration

Please register your attendance at the Registration Desk at the entrance of the M-Building.

The Registration Desk and the Conference Secretariat in MOE68 will be staffed throughout the conference and our colleagues there will be happy to assist you.

Conference App

The IAEA Conferences and Meetings App provides a one-stop access to information on the Conference Programme, the exhibition, and scheduled side events. The app also allows users to create their own personalized schedule of events. Via this app participants will also be able to view the latest conference programme, the synopsis associated with each presentation, and view PowerPoint presentations released after the event. Participants will receive an email inviting them to register for the app shortly before the conference.

Conference Website & NUSEC Portal

In addition to the Conference App, most conference information will be available either on the Conference web site or the IAEA's Nuclear Security Information Portal (NUSEC). The conference schedule, registration procedures and more general information can be found on the conference web site at <https://www.iaea.org/events/physical-protection-of-nuclear-material-conference-2017>

NUSEC is a secure, centralized and interactive online platform designed to help strengthen the Nuclear Security community worldwide by facilitating the exchange of up-to-date Nuclear Security information between the IAEA, its Member States and its international partners. After the conference, full papers and presentations will be posted on NUSEC. Please visit <https://nusec.iaea.org> for access and new member registration.

Conference Overview

Monday will comprise of an opening Plenary Session and Main Panel Sessions involving national and international leaders and expert discussion. Tuesday, Wednesday and Thursday will commence with opening plenary sessions followed by four parallel technical sessions. Friday will begin with three parallel technical sessions followed by a main panel session, and conclude with the President's Report on Friday afternoon.

The plenary sessions will take place in Board Room B/M1, while the parallel technical sessions will take place in Board Room B/M1, Board Room A, Conference Room M3, and in the Press Room.

Interactive Content Presentations

The conference features digital presentations called Interactive Content Presentations (ICPs). ICPs will be briefly introduced at the conclusion of the Main Panel Session prior to the ICP session, and will be presented on the first floor of the M-Building in front of Board Room B/M1.

All ICP presenters are kindly requested to attend the ICP briefing on the assigned day of their presentation to receive final logistical instructions. These briefings will occur at 08:30 every day at the ICP Station (M-Building, First Floor, in front of Board Room B/M1).

Further, ICP presenters are suggested to make use of the preview centre on the ground floor (M0E67) for a final check of their presentations and to familiarize themselves with the touch-screen displays at least one day in advance of their respective presentations.

Poster Presentations

Poster presentations will be held in the Poster Exhibition areas located in the M-Building: Board Room B/M1 (1st Floor); Board Room A (2nd Floor); and outside the Press Room (Ground Floor). Each poster presenter has been assigned to a session during the afternoons of Tuesday, Wednesday or Thursday. Poster presenters are kindly requested to bring a hard-copy of their poster to the Poster Exhibition area on Monday, 13 November 2017 if possible, or before 09:00 hrs on the day of their assigned presentation. Poster presenters will affix their posters on the board bearing their assigned paper number. Posters will remain on display for the entire week of the conference, and may be

removed at the conclusion of the conference on Friday afternoon after 13:30 hrs.

Discussions

All sessions will be audio-recorded. Anyone who wishes to take the floor, e.g. during question periods, should first wait to be identified by the Chairperson, then speak into the nearest microphone available, and begin their question or comment by stating their name, country and organization. Participants are asked to be as concise as possible.

Scenario-based Policy Discussion

A Scenario-based Policy Discussion is scheduled to be held on Monday afternoon. This will be an interactive session where audience members can use 'clickers' to provide input into questions raised regarding themes and topics relevant to the conference. The Scenario-based Policy Discussion will take place in Board Room B/M1.

Side Events

A number of side events, organized by interested Member States, Organizations and the IAEA, are scheduled throughout the Conference Programme. These side events relate to a number of topics relevant to Physical Protection. Side events are open to all conference participants. A full schedule of side events can be found at the end of this Programme.

Refreshments during the Technical Programme

Coffee and refreshments will be available during the morning and afternoon breaks courtesy of voluntary contributions provided by a number of organizations and companies, as acknowledged in the programme insert. Additionally, we are very pleased to host a number of companies and organizations exhibiting their products and services at the conference.

Hosted coffee breaks will be held on all floors of the M-Building. Please take the time to visit and talk with the exhibitors.

Internet Access

Wireless internet access is available throughout the M-Building and no password is needed.

Two computer and printing corners are located on the ground floor of the M-Building.

Bank and Post Office

Banking Services and a post office are located on the first floor of the C-Building.

Conference:

President: Marta Žiaková, Slovakia
Chairperson, Slovak Nuclear
Regulatory Authority

IAEA Secretariat:

Scientific Secretaries: Kenneth Brooks
Deepak Ojha

Scientific and Administrative Support: Richard Gordon
Adam Myers
Dagmar Dusic

Conference Coordination: Julie Zellinger

Exhibition Coordination: Viktorija Jordanovska

Location of the Conference:

International Atomic Energy Agency
Vienna International Centre (VIC)
M-Building
IAEA Boardroom
Wagramer Strasse 5
A-1400 Vienna, Austria

Working Language: English

Programme Committee

Chairpersons

K. Horvath	Hungary
G. Irola	United States of America

Members

S. Ohirko	Argentina
N. Masrera	Argentina
L. Bloomfield Torres	Brazil
B. Jiabin	China
T. Languin	France
F. Mariotte	France
A. Vincze	Hungary
N. Uetake	Japan
P. Gan	Malaysia
M. Haddaoui	Morocco
O. Ofodile	Nigeria
M. Khan	Pakistan
M. Konstantinov	Russian Federation
A. Perez Baez	Spain
A. Clark	United Kingdom
G. Baum	United States of America
R. Howell	United States of America
B. Shulman	United States of America
I. Kirsten	World Institute of Nuclear Security (WINS)
T. Dixon	World Nuclear Transport Institute (WNTI)

MOBILE CONFERENCE APPLICATION

(for smart phones 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.

The App allows you to:

- put together your own schedule and view up-to-date programme information;
- view PowerPoint presentations of those speakers who have permitted their release, after the presentation;
- interact with other participants using the App;
- submit questions/comments during the sessions.

If you wish to do so, toward the end of the conference,

Please provide us with your feedback using the evaluation form available on the App.

If you have questions or require assistance on the App please contact the Conference Registration Desk.

TIMETABLE

Sunday, 12 November 2017

15:00–18:30 Registration Registration Desk,
Gate 1

16:30–18:30 Welcome Reception
(Ground Floor, M-Building)

Monday, 13 November 2017

08:00–10:00 Registration Registration Desk,
Gate 1

10:00–11:00 Opening Plenary Session 1A
(Board Room B/M1)

11:00–12:45 Main Panel Session 1B Universalization of the
(Board Room Convention on the Physical
B/M1) Protection of Nuclear Material
and its Amendment

12:45–14:00 *Lunch Break and Side Event*

14:00–15:30 Scenario-based Policy Discussion
1C
(Board Room B/M1)

15:30–16:00 *Coffee / Tea Break*

16:00–17:30 Main Panel Session 1D Implementation of
(Board Room Convention on the Physical
B/M1) Protection of Nuclear Material
and its Amendment

Tuesday, 14 November 2017

09:00–10:30 Main Panel Session 2A Legislative and Regulatory
(Board Room Framework for the Physical
B/M1) Protection of Nuclear
Material in Use, Storage and
Transport and for
Nuclear Facilities

10:30–11:00 *Coffee / Tea Break Interactive Content
Presentations*
(In Front of Board Room B/M1)

11:00–13:00 Technical Session Physical Protection Regime I
2B-1
(Board Room B/M1)

11:00–13:00 Technical Session Assessments:
2C-1 Methodologies and Tools
(Board Room A)

11:00–13:00 Technical Session Implementation of INFCIRC
2D 225 rev 5: Case Studies
(Press Room)

11:00–13:00 Technical Session Legal & Regulatory
2E-1 Requirements: Approaches
(Conference Room to Development
M3)

13:00–14:00 *Lunch Break and Side Event*

14:00–16:00 Technical Session Physical Protection Regime II
2B-2
(Board Room B/M1)

14:00–16:00 Technical Session Assessments: Case Studies
2C-2 and IPPAS Missions
(Board Room A)

14:00–16:00 Technical Session Physical Protection
2F-1 Approaches: Methodologies
(Press Room)

14:00–16:00 Technical Session Legal & Regulatory
2E-2 Requirements: Case Studies
(Conference Room
M3)

16:00–16:30 *Coffee / Tea Break Poster Presentations*

16:30–18:30 Technical Session Physical Protection Regime
2B-3 III
(Board Room B/M1)

16:30–18:30 Technical Session Design Basis Threat
2G
(Board Room A)

16:30–18:30 Technical Session Physical Protection
2F-2 Approaches: Case Studies
(Press Room)

16:30–18:30 Technical Session Legal and Regulatory
2E-3 Requirements: Regulatory
Oversight
(Conference Room M3)

18:30–20:30 Reception
(Ground Floor, M-Building)

Wednesday, 15 November 2017

09:00–10:30 Main Panel Session 3A Developing and Sustaining a
(Board Room B/M1) Physical Protection Regime
for Nuclear Material in Use,
Storage and Transport and
for Nuclear Facilities

10:30–11:00 *Coffee / Tea Break* *Interactive Content*
Presentations
(In Front of Board Room B/M1)

11:00–13:00 Technical Session Physical Protection Regime:
3B-1 Facility
(Board Room B/M1)

11:00–13:00 Technical Session Training and Capacity
3C-1 Building: Academic
(Board Room A)

11:00–13:00 Technical Session Safety-Security Interface
3D
(Press Room)

11:00–13:00 Technical Session Nuclear Material
3E Accountancy and Control
(Conference Room M3)

13:00–14:00 *Lunch Break and Side Event*

14:00–16:00 Technical Session Physical Protection Regime:
3B-2 Improvements
(Board Room B/M1)

14:00–16:00 Technical Session Training and Capacity
3C-2 Building: Case Studies
(Board Room A)

14:00–16:00 Technical Session Computer Security: PPS I
3F-1
(Press Room)

14:00–16:00 Technical Session Nuclear Security Culture
3G-1
(Conference Room M3)

16:00–16:30 *Coffee / Tea Break* *Poster Presentations*

16:30–18:30 Technical Session Physical Protection Regime:
3B-3 Case Studies
(Board Room B/M1)

16:30–18:30 Technical Session Training & Exercises
3H
(Board Room A)

16:30–18:30 Technical Session Computer Security: PPS II
3F-2
(Press Room)

16:30–18:30 Technical Session Nuclear Security Culture:
3G-2 Assessments
(Conference Room M3)

Thursday, 16 November 2017

09:00–10:30 Main Panel Session 4A Protection Against
(Board Room B/M1) Unauthorized Removal of
Nuclear Material During Use,
Storage and Transport and
Sabotage of Nuclear
Material and Nuclear
Facilities

10:30–11:00 *Coffee / Tea Break* *Interactive Content*
Presentations
(In Front of Board Room B/M1)

11:00–13:00 Technical Session Physical Protection
4B-1 Measures
(Board Room B/M1)

11:00–13:00 Technical Session Training & Capacity
4C Building: Case Studies
(Board Room A)

11:00–13:00 Technical Session Insider Threat &
4D Trustworthiness
(Press Room)

11:00–13:00 Technical Session Management of Sensitive
4E Information
(Conference Room M3)

13:00–14:00 *Lunch Break and Side Event*

14:00–16:00 Technical Session Physical Protection
4B-2 Measures: Facilities
(Board Room B/M1)

14:00–16:00 Technical Session Nuclear Security Transport

	4F-1 (Board Room A)		13:00–13:30	President's Remarks and Closing Session 5E (Board Room B/M1)
14:00–16:00	Technical Session 4G-1 (Press Room)	Computer Security: Approaches		
14:00–16:00	Technical Session 4H (Conference Room M3)	Contingency Planning		
16:00–16:30	<i>Coffee / Tea Break</i>	<i>Poster Presentations</i>		
16:30–18:30	Technical Session 4B-3 (Board Room B/M1)	Physical Protection Measures: New Technologies		
16:30–18:30	Technical Session 4F-2 (Board Room A)	Nuclear Security Transport		
16:30–18:30	Technical Session 4G-2 (Press Room)	Computer Security: Safety and Security		
16:30–18:30	Technical Session 4I (Conference Room M3)	Quality Management		

Friday, 17 November 2017

09:00–11:00	Technical Session 5A (Board Room B/M1)	International and Regional Cooperation
09:00–11:00	Technical Session 5B (Board Room A)	Training and Capacity Building: Nuclear Security Support Centres
09:00–11:00	Technical Session 5C (Press Room)	Computer Security Assurance Activities
11:00–11:15	<i>Break</i>	
11:15–12:45	Main Panel Session 5D (Board Room B/M1)	CPPNM/A: International Cooperation for Physical Protection of Nuclear Material and Nuclear Facilities
12:45–13:00	<i>Break</i>	

SUNDAY, 12 NOVEMBER 2017

15:00–18:30 Registration and Distribution of Conference Materials (Registration Desk, Gate 1)

16:30–18:30 Welcome Reception
(Ground Floor, M-Building)

MONDAY, 13 NOVEMBER 2017

08:00–On-Going Registration and Distribution of Conference Materials (Continued - Registration Desk, Gate 1)

10:00–11:00 **Opening Plenary Session 1A:**
(Board Room B/M1)

Juan Carlos Lentijo, IAEA
Deputy Director General,
Department of Nuclear Safety and Security

Opening Remarks

Raja Abdul Aziz Raja Adnan, IAEA
Director, Division of Nuclear Security
Department of Nuclear Safety and Security

Marta Žiaková, Slovakia
Conference President
Chairperson, Nuclear Regulatory Authority of
the Slovak Republic

Opening Statement

Addresses on behalf of professional bodies:

Roger Howsley
World Institute for Nuclear Security (WINS)

Introductory Remarks by WINS

Ben Whittard
World Nuclear Transport Institute (WNTI)

Introductory Remarks by WNTI

John Buchanan
INTERPOL

Introductory Remarks by INTERPOL

MONDAY, 13 NOVEMBER 2017

11:00–12:30 **MAIN PANEL SESSION 1B:**
Universalization of the Convention on
the Physical Protection of Nuclear
Material and its Amendment
(Board Room B/M1)
Moderator: **M. Žiaková, Slovakia**

INVITED SPEAKERS

<i>Time</i>	<i>Name of Speaker</i>	
11:00–11:15	P. Johnson Office of Legal Affairs, IAEA	
11:15–11:30	N. Akiyama, Japan Permanent Mission of Japan	
11:30–11:45	K. Mrabit, Morocco Moroccan Agency for Nuclear and Radiological Safety and Security	
11:45–12:00	E. Osaisai, Nigeria Nigeria Atomic Energy Commission	
12:00–12:15	A. Hall, United States of America National Security Council	
12:15–12:30	F. Deluchi, Argentina Ministry of Energy and Mining	
12:30–12:45	<i>Discussion Period</i>	
12:45–14:00	Lunch Break / Side Events	<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>

MONDAY, 13 NOVEMBER 2017

14:00–15:30 **Scenario-based Policy Discussion 1C**
(Board Room B/M1)

Moderator: **F. Wong, United States of America**

The Interactive Session is designed to highlight the benefits of universal adherence to the Convention on the Physical Protection of Nuclear Material (CPPNM) and the Amendment to the Convention on the Physical Protection of Nuclear Material.

It will focus on credible threats of unlawful taking of nuclear material and sabotage of a nuclear facility. This session also highlights cyber and insider threat issues and helps identify the notification and information exchange mechanisms as set forth in the A-CPPNM

15:30–16:00 **Coffee / Tea Break**

MONDAY, 13 NOVEMBER 2017

16:00–17:30 **MAIN PANEL SESSION 1D:**

**Implementation of Convention on the
Physical Protection of Nuclear Material
and its Amendment**

(Board Room B/M1)

Moderator: **M. Žiaková, Slovakia**

INVITED SPEAKERS

<i>Time</i>	<i>Name of Speaker</i>
16:00–16:15	J. Vaclav, Slovakia Nuclear Regulatory Authority of the Slovak Republic
16:15–16:30	M. Pain, France Department for Nuclear Security
16:30–16:45	T. Bieda, Argentina Ministry of Energy and Mining
16:45–17:00	P. Sharma, India Ministry of External Affairs
17:00–17:15	V. Cserveny Permanent Mission of Hungary
17:15–17:30	<i>Discussion Period</i>
17:30	Adjourn

TUESDAY, 14 NOVEMBER 2017

09:00–10:30 MAIN PANEL SESSION 2A:

**Legislative and Regulatory Framework for
the Physical Protection of Nuclear Material
in Use, Storage and Transport and of
Nuclear Facilities**

(Board Room B/M1)

Moderator: **G. P. Srivastava, India**

INVITED SPEAKERS

<i>Time</i>	<i>Name of Speaker</i>	
09:00–09:15	N. Bello, Nigeria Nigerian Nuclear Regulatory Authority	
09:15–09:30	J. Rivers, United States of America United States Nuclear Regulatory Commission	
09:30–09:45	J. Jia, China China Atomic Energy Authority	
09:45–10:00	N. Masriera, Argentina Nuclear Regulatory Authority	
10:00–10:30	<i>Discussion Period</i>	
10:30–11:00	Coffee / Tea Break	Interactive Content Presentations

TUESDAY, 14 NOVEMBER 2017

10:30–11:00 Interactive Content Presentations:

Session 1

(In Front of Board Room B/M1)

<i>ICP Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
10:30–10:45	Interactive Content Presentations			
1	45	U. Youngchuay	Thailand	Upgrading the Physical Protection System at Nuclear Research Reactor in Thailand through the International Physical Protection Advisory Service
2	81	E. Efanskaya	Russian Federation	International cooperation to strengthen the physical protection of nuclear material in use, storage and transport and of nuclear facilities
10:45–11:00	Interactive Content Presentations			
1	141	D. Rismawan	Indonesia	Review and Update Experiences to National Design Basis Threat For Physical Protection System Development at Nuclear Facility in Indonesia
2	217	M. Mladenovic	Serbia	International Cooperation for Strengthening Nuclear Security Capacities within “Public Company Nuclear Facilities of Serbia”

TUESDAY, 14 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 2B-1:
Physical Protection Regime I
(Board Room B/M1)

Chairpersons: **A. Pérez Báez, Spain**
 N. Miyamoto, Japan

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	23	A. Elabd	Egypt	Strengthening the National Physical Protection Regime: Actions Needed to Move Forward
11:20–11:40	112	S. Basille	France	Specialized Command for Nuclear Security: Coordinate the Response of State Security Forces to Nuclear Threats and Breaches
11:40–12:00	125	B. Boustani	Morocco	Implementation of a Nuclear Security System in the Kingdom of Morocco
12:00–12:20	65	A. Kibria	Bangladesh	Drive in Strengthening the Physical Protection Regime of Bangladesh
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

TUESDAY, 14 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 2C-1:
Assessments: Methodologies and Tools
(Board Room A)

Chairpersons: **A. Izmaylov, Russian Federation**
 C. Terrado, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	92	Y. Kang	Republic of Korea	Development of Physical Protection Vulnerability Assessment Tool TESS
11:20–11:40	250	M. Parrilla, A. Friend	United States of America	Best Practices on Methodologies and Techniques to Assess the Effectiveness of Physical Protection Measures and Systems
11:40–12:00	263	A. Chetaine	Morocco	Assessment Methodologies and Evaluation of the Physical Protection System
12:00–12:20	290	M. Snell	United States of America	Summary of Analysis Methodology Results of the Nuclear Security Assessment Methodologies (NUSAM) Coordinated Research Project
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

TUESDAY, 14 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 2D:

**Implementation of INFCIRC/225/Rev.5:
Case Studies**

(Press Room)

Chairpersons: I. Haq, Pakistan
L. BloomfieldTorres, Brazil

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	179	N. Noro	Japan	ISCN's Activities to Promote Universalization of INFCIRC/225/Rev.5
11:20–11:40	167	S. Suharyanta	Indonesia	Strengthening Physical Protection Regulatory Requirements based on INFCIRC 225 Rev.5 in Indonesia
11:40–12:00	225	O. Bukharin	United States of America	INFCIRC/225/Rev.5 Implementation at a Facility-Level: Common Issues and Best Practices
12:00–12:20	272	N. Luwalira	Uganda	Uganda's Experience in the Implementation of the CPPNM and its Amendment
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

TUESDAY, 14 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 2E-1:

**Legal & Regulatory Requirements:
Approaches to Development**

(Conference Room M3)

Chairpersons: S. Jovanovic, Montenegro
T. Bieda, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	105	S. Shah	Pakistan	Development of Physical Protection Regulatory Requirements
11:20–11:40	150	L. Wang	China	An Introduction of Draft Regulations on Nuclear Security
11:40–12:00	249	D. Kovchegin	Russian Federation	Combining International Best Practices and Local Specifics in Developing National Physical Protection Regulations
12:00–12:20	300	B. Aregga	Ethiopia	Legal and Regulatory Framework and Situation for Physical Protection of Nuclear /Radioactive Materials in Ethiopia
12:20–12:40	286	C. Siserman	Austria	Comparative Analysis on the National Approaches for the Legal Implementation and Criminalization of the Offences Under the Convention for the Physical Protection of Nuclear Material (CPPNM) and its Amendment
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

TUESDAY, 14 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 2B-2:

Physical Protection Regime II

(Board Room B/M1)

Chairpersons: **A. Pérez Báez, Spain**
 N. Miyamoto, Japan

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	14	M. Alifei	Chad	The Physical Protection of Nuclear Materials and Ionizing Radiation Sources in Chad
14:20–14:40	76	F. Elsis	Egypt	Sanctions as a Legal Deterrence Mean in the National Physical Protection Regime
14:40–15:00	89	N. Uetake	Japan	Current Nuclear Security Regime in Japan- Efforts for Compliance with NSS-13 and CPPNM Amendment
15:00–15:20	184	R. Howsley	World Institute for Nuclear Security (WINS)	Nuclear and Aviation Security – A Comparative Analysis
16:00–16:30	Coffee / Tea Break		Poster Presentations	

TUESDAY, 14 NOVEMBER 2017

14:00–16:00 **TECHNICAL SESSION 2C-2:**

Assessments: Case Studies and IPPAS Missions

(Board Room A)

Chairpersons: **A. Izmaylov, Russian Federation**
 C. Terrado, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	95	S. Alsaadi	United Arab Emirates	Nuclear Security Regulatory Authorization and Assessment Process for Barakah NPP in United Arab Emirates
14:20–14:40	224	M. Bailey	United States of America	Assessment of the U.S. Nuclear Regulatory Commission Security Baseline Inspection Program
14:40–15:00	110	H. Kroeger	Germany	IPPAS Mission in Germany
15:00–15:20	159	Z. Stefanka	Hungary	Lessons Learned from the IPPAS Follow-Up Mission to Hungary
15:20–15:40	9	T. Messer	United States of America	Safeguards and Security Limited Notice Performance Testing: A Systems Approach
16:00–16:30	Coffee / Tea Break		Poster Presentations	

TUESDAY, 14 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 2F-1:

**Physical Protection Approaches:
Methodologies**

(Press Room)

Chairpersons: **E. Nikhanov, Kazakhstan**
 G. Tanzillo Santos, Brazil

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	273	G. Sharma	India	A Model for Performance Based Method for Designing a PPS
14:20–14:40	136	B. Maxwell	United States of America	Security Layer Failures and Integrated Dependency
14:40–15:00	140	Z. Zhao	China	The Best Practice of Acceptance Test for Physical Protection System at Nuclear Facility
15:00–15:20	86	M. May	United States of America	U.S. Department of Energy Alternate Protection Strategy for Nuclear Fuel Elements - Description of an Alternative Approach for Analyzing the Protection of Nuclear Fuel Elements
16:00–16:30	Coffee / Tea Break		Poster Presentations	

TUESDAY, 14 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 2E-2:

**Legal & Regulatory Requirements:
Case Studies**

(Conference Room M3)

Chairpersons: **S. Jovanovic, Montenegro**
 T. Bieda, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	79	M. Medić	Croatia	Changes in the Croatian Legal and Regulatory Framework for Physical Protection
14:20–14:40	268	M. Mahmoud Hamid Mohammed Ali	Sudan	Legal Element for Physical Protection Regime Sudanese as Case Study □
14:40–15:00	122	A. Wiesbaum	Germany	The Development of Guidelines for the Transport of Nuclear Material in Germany
15:00–15:20	216	M. Ivanov	Russian Federation	Rostekhnadzor Experience in the Use of the IAEA Recommendations during Improvement of the Regulatory Framework for the Physical Protection of Nuclear Material and Nuclear Facilities
15:20–15:40	258	D. Sieracki	United States of America	U.S. Nuclear Regulatory Commission Safety and Security - Policy and Oversight
16:00–16:30	Coffee / Tea Break		Poster Presentations	

TUESDAY, 14 NOVEMBER 2017

16:00–16:30 Poster Session

POSTER PRESENTATIONS

(In Front of Board Room A)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1	49	S. Trélat	France	Shock Wave Propagation around Convex Structure
2	50	S. Eveillard	France	Dopex Project: Toward Fast-Computing Tools For Weapon Effects Evaluation On Nuclear Facilities
3	93	M. Zagrajek	Poland	IPPAS Mission in Poland
4	201	B. Srimok	Thailand	Experiences Addressing IPPAS Recommendations through Organization Changes

(In Front of Board Room B/M1)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
21	61	K. Tun	Myanmar	Developing and Sustaining a Physical Protection Regime in Myanmar
22	276	V. Kovtunov	Austria	Assessment of Nuclear and Other Radioactive Material Attractiveness as a Part of the Graded Approach for Nuclear Security Management of a Research Reactor
23	308	I. Ahmad	Pakistan	Evolution of Physical Protection Systems and Measures, Technological Advancements and Future Challenges
24	11	L. Pandi	Indonesia	Regulation on Physical Protection in Indonesia
25	129	M. Annor-Nyarko	Ghana	Regulatory Framework for the Physical Protection of Activities and Practices Involving the Uses of Nuclear and Radioactive Material in Ghana
26	42	M. Beaudette	Canada	Challenges and Solutions for Sharing Classified Information with Licensees Using, Storing and Transporting High Risk Radioactive Sources

TUESDAY, 14 NOVEMBER 2017

16:00–16:30 Poster Session

POSTER PRESENTATIONS

(Outside Press Room)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
41	172	I. Gunawan	Indonesia	Physical Protection of Nuclear Material during Transport in Island Countries
42	203	L. Bloomfield Torres	Brazil	Evolution of Brazilian Physical Protection Regulations
43	274	C. Manda	Malawi	Assessment of the Regulatory Framework in Nuclear Security: A Case of the Opportunities and Challenges of Malawi

TUESDAY, 14 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 2B-3:

Physical Protection Regime III

(Board Room B/M1)

Chairperson: **N. Fragoyannis, United States of America**

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	41	A. Salahuddin	Bangladesh	An Analysis on Effective Physical Protection System Development for Nuclear Materials and Nuclear Facilities in Bangladesh
16:50–17:10	168	A. Touarsi	Morocco	Developing and Sustaining a Physical Protection Regime for Nuclear Material During Transport, Use, Storage and for Nuclear Facilities
17:10–17:30	294	R. Officer	United Kingdom	Nuclear Maritime Security Assurance Programme
18:30–20:30	Reception			
	(Ground Floor, M-Building)			

TUESDAY, 14 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 2G:

Design Basis Threat

(Board Room A)

Chairpersons: **H. Yoo, Republic of Korea**

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	262	M. Bunn	United States of America	Protecting Nuclear Materials and Facilities Against the Full Spectrum of Plausible Threats
16:50–17:10	40	H. Elsayed	Egypt	Identification and Assessment of Threats for a Nuclear Fuel Fabrication Facility (NFFF)
17:10–17:30	127	C. Engelhardt	Germany	Development and Evaluation of the Design Basis Threat in Germany
17:30–17:50	84	S. Callahan	United States of America	U.S. Department of Energy 2016 Design Basis Threat (DBT) Methodology
18:30–20:30	Reception (Ground Floor, M-Building)			

TUESDAY, 14 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 2F-2:

**Physical Protection Approaches:
Case Studies**

(Press Room)

Chairpersons: **E. Nikhanov, Kazakhstan**
 G. Tanzillo Santos, Brazil

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	85	M. Sparks	United States of America	The U.S. Department of Energy's Use of Defense in Depth in Physical Protection
16:50–17:10	152	M. Kang	Republic of Korea	Application to Vital Area Identification of Nuclear Power Plants based on PSA
17:10–17:30	87	M. Hojnacke	United States of America	U.S. Department of Energy - A Qualitative Physical Protection System Risk Assessment Methodology
17:30–17:50	66	R. Rodger	United Kingdom	Meeting Outcomes Based Regulation Through Performance Assessment
17:50–18:10	98	S. Perkins-Grew	United States of America	Nuclear Energy Institute White Paper: Security Event Mitigation Assessment, May 2017
18:30–20:30	Welcome Reception <i>(Ground Floor, M-Building)</i>			

TUESDAY, 14 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 2E-3:

**Legal & Regulatory Requirements:
Regulatory Oversight**

(Conference Room M3)

Chairpersons: **B. Whittard, United Kingdom**
P. Johnson, IAEA

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	311	T. Seabright	United Kingdom	Development of an Outcome Focused Security Regime and the Associated Security Assessment Principles in the United Kingdom
16:50–17:10	118	R. Pashayev	Azerbaijan	Regulatory Oversight and Control of the Physical Protection of Nuclear Materials and Nuclear Facilities And Compliance with the Requirements of the Convention on the Physical Protection of Nuclear Material and its Amendment.
17:10–17:30	15	N. Bello	Nigeria	Regulatory Oversight of the Physical Protection of the Nigeria Research Reactor -1 (NIRR-1) and other Category 1 Radiological Facilities in Nigeria
17:30–17:50	135	M. Roston	Argentina	The Role of the Nuclear Regulatory Authority of Argentina in the Implementation of the Convention on the Physical Protection of Nuclear Material (CPPNM) and its Amendment
18:30–20:30	Welcome Reception <i>(Ground Floor, M-Building)</i>			

WEDNESDAY, 15 NOVEMBER 2017

09:00–10:30 MAIN PANEL SESSION 3A:

**Developing and Sustaining a Physical
Protection Regime for Nuclear Material in
Use, Storage and Transport and of Nuclear
Facilities**

(Board Room B/M1)

Moderator: M. Beaudette, Canada

INVITED SPEAKERS

<i>Time</i>	<i>Name of Speaker</i>	
09:00–09:15	Y. Naoi, Japan Japan Atomic Energy Agency	
09:15–09:30	L. Kostov, Bulgaria Nuclear Regulatory Agency	
09:30–09:45	A. Izmaylov, Russian Federation JSC "Federal Centre of Science and High Technologies"	
09:45–10:00	T. Majeed, Pakistan Pakistan Institute of Engineering and Applied Sciences (PIEAS)	
10:00–10:30	<i>Discussion Period</i>	
10:30–11:00	Coffee / Tea Break	Interactive Content Presentations

WEDNESDAY, 15 NOVEMBER 2017

10:30–11:00 **Interactive Content Presentation:**

 Session 2

 (In Front of Board Room B/M1)

<i>ICP Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
10:30–10:45	Interactive Content Presentations			
1	8	O. Ofodile	Nigeria	Considerations for the Design and Implementation of Physical Protection for a Proposed New Multi-Purpose Research Reactor Complex (MPRCC)
2	69	J. Edwards	United Kingdom	Vulnerability Assessment Continuum
10:45–11:00	Interactive Content Presentations			
1	229	A. Alsalman	Jordan	Regulatory Oversight of Trustworthiness for Employees in Research Reactors
2	259	R. Cushnie	Jamaica	Safety and Security a Single Entity for the JM-1 SLOWPOKE-2 Reactor

WEDNESDAY, 15 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 3B-1:

Physical Protection Regime: Facility

(Board Room B/M1)

Chairpersons: J. Bao, China
A. Elliot, Canada

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	306	V. Maltsev	Russian Federation	Physical Protection is the Keystone of Security
11:20–11:40	288	T. Wellington	United States of America	The Role of Nuclear Forensics in Implementing International Nuclear Security Conventions such as the Convention on the Physical Protection of Nuclear Material and its 2005 Amendment (CPPNM/A) United States of America
11:40–12:00	68	R. Rodger	United Kingdom	Integration of Security into a Concept Design for a Facility
12:00–12:20	289	J. Lautier	France	AIEA : Enhancing Security Conference Protecting Nuclear Sensitive Sites
12:20–12:40	296	B. Whittard	United Kingdom	Supply Chain Security – Where's Your Weakest Link?
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

WEDNESDAY, 15 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 3C-1:

Training and Capacity Building:
Academic

(Board Room A)

Chairpersons: B. Srimok, Thailand
R. Pashayev, Azerbaijan

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	12	T. Majeed	Pakistan	Physical Protection Systems Education at Pakistan Institute of Engineering and Applied Sciences (PIEAS): Current Status, Lessons Learnt, and Future Prospects
11:20–11:40	51	F. Holl	Germany	Master of Science Program in Nuclear Security (MiNS) – A Project Overview and Future Challenges
11:40–12:00	133	M. Hazzaa	Egypt	A Proposal for the Role of Nuclear Security Support Center to Sustain a National Nuclear Security Regime
12:00–12:20	194	D. Johnson	World Institute for Nuclear Security (WINS)	Implementation of IAEA INFCIRC/901: Promoting Certification, Quality Management and Sustainability for Nuclear Security Training
12:20–12:40	31	S. Jovanovic	Montenegro	Education, Knowledge, Competence – Fundamental Prerequisites for Successful Implementation of Nuclear-and-Radiation-Related Physical Protection
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

WEDNESDAY, 15 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 3D:

Safety-Security Interface

(Press Room)

Chairpersons: R. Howsley, World Institute for Nuclear
Security (WINS)
U. Youngchuay, Thailand

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	282	R. Karanam	India	Holistic Approach to Nuclear Safety, Security and Safeguards: Opportunities and Challenges
11:20–11:40	44	M. Abdelaal	Egypt	Enhancement the Surveillance Programme of Nuclear Facilities based Safety and Security Synergy Concepts
11:40–12:00	191	E. Waller	Canada	Training and Exercising the Nuclear Safety and Nuclear Security Interface Incident Response Through Synthetic Environment, Augmented Reality and Virtual Reality Simulations
12:00–12:20	197	J. Sjöström	Sweden	Security/Safety Interface in Practice: Lessons Learned from the Swedish Joint Regulatory Project
12:20–12:40	18	R. Rajdeep	India	Safety–Security Interface at Bhabha Atomic Research Centre, Mumbai, India
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

WEDNESDAY, 15 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 3E:

Nuclear Material Accountancy and Control

(Conference Room M3)

Chairpersons: **B. Boustani, Morocco**
D. Bokov, Russian Federation

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	33	J. Vidaurre-Henry	Japan	Training on Nuclear Material Accounting and Control (NMAC) for Emerging Countries in Asia
11:20–11:40	120	S. Bznuni	Armenia	Application of NUCMAT for Improving Nuclear Materials Accounting for and Control Practice
11:40–12:00	205	A. LaFleur	United States of America	U.S. Experience Implementing Nuclear Material Accountancy and Control (NMAC) & Physical Protection (PP) for Nuclear Security
12:00–12:20	97	M. Charette	Canada	WNTI Working Group on UF6 cylinder Identification
12:20–12:40	234	R. Larsen	IAEA□	Comparison Between Nuclear Material Accounting and Control for Nuclear Security and a State System of Accounting for Safeguards
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

WEDNESDAY, 15 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 3B-2:

**Physical Protection Regime:
Improvements**

(Board Room B/M1)

Chairpersons: **T. Dixon, World Nuclear Transport
Institute (WNTI)
S. Chanyotha, Thailand**

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	188	N. Klos	Ukraine	Implementation of Amendment to the Convention on the Physical Protection of Nuclear Material and Nuclear Facilities in Ukraine: Lessons Learned
14:20–14:40	43	S. Qureshi	India	Nuclear Security and Amended CPPNM Recommendations - Implementation Perspective
14:40–15:00	25	Z. Hassan	Egypt	Methodology for Upgrading Physical Protection Systems at Nuclear Facilities
15:00–15:20	115	R. Mahmood	Pakistan	Sustainability of Physical Protection Equipment Throughout the lifecycle of a Nuclear Facility
16:00–16:30	Coffee / Tea Break		Poster Presentations	

WEDNESDAY, 15 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 3C-2:

**Training and Capacity Building:
Case Studies**

(Board Room A)

Chairpersons: **B. Srimok, Thailand**
R. Pashayev, Azerbaijan

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	204	C. Hobbs	United Kingdom	The United Kingdom's Experience in Developing and Delivering Physical Protection Workshops
14:20–14:40	265	R. Matsuzawa	Japan	Practices of ISCN in Providing Effective Training Courses: Utilization of the Physical Protection Exercise Field
14:40–15:00	267	A. Kuskov	Russian Federation	Training and Advanced Training of Nuclear Security Specialists in the Russian Federation
15:00–15:20	231	C. Crawford	United States of America	Human Capacity Building in Nuclear Security
15:20–15:40	200	Y. Hasan	Indonesia	Capacity Building for the Physical Protection Systems Strengthening of BATAN's Nuclear Facilities
16:00–16:30	Coffee / Tea Break		Poster Presentations	

WEDNESDAY, 15 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 3F-1:

Computer Security: PPS I

(Press Room)

Chairpersons: **N. Noro, Japan**
T. Seabright, United Kingdom

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	5	N. Agbemava	Ghana	Computer Security Design Methodology for Nuclear Facility & Physical Protection Systems
14:20–14:40	56	M. Abdulrahman	Sudan	The Strategies and Policies for Physical and Cyber Security in Sudan: A Case Study on Sudan's Governmental Data Centers
14:40–15:00	142	M. StJohn-Green	United Kingdom	Differences Between Defence in Depth for Computer Security and Physical Protection
15:00–15:20	240	A. Long	United States of America	Cyber-Physical System Security
16:00–16:30	Coffee / Tea Break		Poster Presentations	

WEDNESDAY, 15 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 3G-1:

Nuclear Security Culture

(Conference Room M3)

Chairpersons: **B. Nyarko, Ghana,**
N. Masrera, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	107	A. Kohli	India	Challenges in Establishing Effective Nuclear Security Culture
14:20–14:40	147	C. Speicher	Germany	The Regulator's Tools to Support the Operator's Security Culture
14:40–15:00	109	S. Udum	Turkey	Physical Protection Regime- Universalization of the Convention on the Physical Protection of Nuclear Material and its 2005 Amendment.
15:00–15:20	277	J. Kutuvan	India	Building Robust Nuclear Security Culture in Nuclear Research Centres
16:00–16:30	Coffee / Tea Break		Poster Presentations	

WEDNESDAY, 15 NOVEMBER 2017**16:00–16:30 Poster Session****POSTER PRESENTATIONS*****(In Front of Board Room A)***

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
5	121	N. Izmailova	Kazakhstan	Establishment of the Nuclear Security Training Center in Kazakhstan
6	151	A. Krasnoborodko	Russian Federation	Development of Physical Protection Educational Laboratories in the National Research Nuclear University MEPhI
7	155	M. Kang	Republic of Korea	A Study on Systematic Implementation of Force on Force Exercise
8	202	S. Chanyotha	Thailand	Academic and Research on Physical Protection of Nuclear Material and Nuclear Facility Conducted in Thailand
9	20	H. Yücel	Turkey	Assessment of Educational Approaches to Strengthen The Physical Protection Regime of Turkey from Point of View Nuclear Security Culture
10	183	H. Abbassi	Morocco	Overview on CNESTEN Human Reliability Program

(In Front of Board Room B/M1)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
27	78	O. Alshehhi	United Arab Emirates	Developing and Sustaining a Physical Protection Regime in UAE
28	156	E. Riyadi	Indonesia	Strategy for Strengthening Physical Protection of Nuclear Materials and Nuclear Facilities in Indonesia
29	221	C. Soontrapa	Thailand	Path for Thailand towards Accession to Convention on the Physical Protection of Nuclear Material and its Amendment
30	70	L. Rezende Martins	Brazil	Are You an Insider?

WEDNESDAY, 15 NOVEMBER 2017

16:00–16:30 Poster Session

POSTER PRESENTATIONS

(Outside Press Room)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
44	75	M. Wiśniewska	Poland	Polish Experiences in Self-Assessment of Nuclear Security Culture
45	158	M. Mladenovic	Serbia	Strengthening Nuclear Security Culture within Public Company "Nuclear Facilities of Serbia"
46	199	G. Tanzillo Santos	Brazil	Implementation of the Self-Assessment Tool of the IAEA's Security Culture to a Research Institute Considered a Nuclear Facility
47	208	M. DePhillips	United States of America	Cyber-Security Aspects of Physical Protection
48	279	D. Bokov	Russian Federation	Interaction of Nuclear Material Control and Accounting System and Physical Protection System for Nuclear Security Objectives
49	305	V. Yankov	Bulgaria	Similarities and Differences of Nuclear Security Culture and its Self-Assessment in Nuclear Power Plant and Research Reactor

WEDNESDAY, 15 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 3B-3:

**Physical Protection Regime:
Case Studies**

(Board Room B/M1)

Chairpersons: T. Dixon, World Nuclear Transport
Institute (WNTI)
S. Chanyotha, Thailand

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	102	M. Umayam	World Institute for Nuclear Security (WINS)	An Industry-Led Governance Framework for Demonstrating Strong Security
16:50–17:10	58	I. Ewa	Nigeria	Physical Systems and Regulatory Oversight for the Protection and Operation of the Nigeria Research Reactor-1
17:10–17:30	21	R. Rosano	United States of America	Performance Testing Nuclear Security
17:30–17:50	252	N. Faye	Senegal	Preparation for the implementation of the Convention on Physical Protection of Nuclear Material and its Amendment in Senegal
17:50-18:10	310	P. Leverd	France	Physical Protection Specificities of a Deep Geological Disposal: The Case of the French Project Cigéo
18:30	Adjourn			

WEDNESDAY, 15 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 3H:

Training and Exercises

(Board Room A)

Chairpersons: **B. Kaboro, Kenya**
O. Alshehhi, United Arab Emirates

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	82	G. Curry	United States of America	The U.S. Department of Energy's Use of Protective Force Standards to Ensure a Timely and Effective Response to Security Threats
16:50–17:10	177	R. Perc	Slovenia	How FOF Exercise Helped Us Build Joint Training Programme
17:10–17:30	213	J. Parker	United States of America	Outcomes-Based Training and Education for Protective Forces
18:30	Adjourn			

WEDNESDAY, 15 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 3F-2:

Computer Security: PPS II

(Press Room)

Chairpersons: **N. Noro, Japan**
T. Seabright, United Kingdom

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	298	J. Clem	United States of America	Potential Weaknesses in the Cyber Systems of High-Security Physical Protection Systems
16:50–17:10	256	M. Findrik	Austria □	Bridging The Gap Between Cyber-Attacks and Hazards in Nuclear Facilities: STPA-SafeSec and Attack Tree Approach
17:10–17:30	275	A. Khan	India	Enhancing Security of Physical Protection Systems through Software Behavioral Whitelisting
17:30–17:50	233	R. Poland	United States of America	Authenticated Sensor Interface Device for Securing Sensors and Data Transmission
17:50–18:10	284	M. Fabro	United States of America	Cybersecurity & Physical Protection: How Cyber Attacks Can Influence the Reliability and Integrity of Facility PPS & Communications
18:30	Adjourn			

WEDNESDAY, 15 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 3G-2:

Nuclear Security Culture: Assessments

(Conference Room M3)

Chairpersons: **B. Nyarko, Ghana**
N. Masrera, Argentina

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	269	M. Solymosi	Hungary	Practical Experiences of Combined Nuclear Security and Safety Culture Self-Assessments in NPPS
16:50–17:10	246	A. Williams	United States	A System-Theoretic Approach to Overcoming Cultural & Organizational Barriers to Nuclear
17:10–17:30	160	M. Ahmed	Bangladesh	Qualitative Assessment of Nuclear Security Culture in a Public and a Private Radioactive Source Using Hospital
17:30–17:50	67	J. Davison	United Kingdom	Assessing and Enhancing the Security Culture of an Organisation
18:30	Adjourn			

THURSDAY, 16 NOVEMBER 2017

09:00–10:30 MAIN PANEL SESSION 4A:

**Protection against Unauthorised
Removal of Nuclear Material during Use,
Storage and Transport and Sabotage of
Nuclear Material and Nuclear Facilities**

(Board Room B/M1)

Moderator: **M. Lansing, United States of America**

INVITED SPEAKERS

<i>Time</i>	<i>Name of Speaker</i>	
09:00–09:15	T. Seabright, United Kingdom Office for Nuclear Regulation	
09:15–09:30	K. Horvath, IAEA Department of Nuclear Safety and Nuclear Security (NSNS)	
09:30–09:45	H. Yoo, Republic of Korea Korea Institute of Nuclear Non-proliferation and Control	
09:45–10:00	T. Hack, Finland Radiation and Nuclear Safety Authority (STUK)	
10:00–10:30	<i>Discussion Period</i>	
10:30–11:00	Coffee / Tea Break	Interactive Content Presentations

THURSDAY, 16 NOVEMBER 2017

10:30–11:00 Interactive Content Presentations:

Session 3

(In front of Board Room B/M1)

<i>ICP Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
10:30–10:45	Interactive Content Presentations			
1	212	J. Parker	United States of America	Enterprise Mission-Essential Task List for Protective Forces
2	215	S. Clements	United States of America	Using Virtual and Augmented Reality to Improve Cyber Security and Physical Protection of Nuclear Material and Nuclear Facilities
10:45–11:00	Interactive Content Presentations			
1	90	P. Funk	France	EXTREME Tabletop Exercise
2	237	D. Warner	United States of America	Interactive 3D Models and Simulations for Nuclear Security Education, Training, and Analysis

THURSDAY, 16 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 4B-1:

Physical Protection Measures: Systems

(Board Room B/M1)

Chairpersons: **N. Uetake, Japan**
 O. Heinonen, Finland

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	280	V. Sinha	India	An Integrated Approach for Design and Implementation of Physical Protection System Elements for Nuclear Facilities
11:20–11:40	220	M. Oboo	Uganda	Physical Protection Measures and Systems for Nuclear Materials In Uganda
11:40–12:00	243	J. Leach	United States of America	Verifying Operational Effectiveness of Nuclear Security Systems
12:00–12:20	264	A. Chetaine	Morocco	Complementarity between Physical Protection System and Nuclear Security
12:20–12:40	226	D. Ek	United States of America	Security Risks Posed by Nuclear and Other Radioactive Materials at a Research Reactor Complex
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

THURSDAY, 16 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 4C:

Training and Capacity Building: Case Studies

(Board Room A)

Chairpersons: **A. Kuskov, Russian Federation**
M. Habib, Pakistan

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	254	V. Kryuchenkov	Russian Federation	Nuclear Security Infrastructure Training for New Nuclear Power Programs
11:20–11:40	211	J. Parker	United States of America	Training Quality Analysis for Protective Forces
11:40–12:00	59	D. Cherkashyn	Germany	Perspectives for the Use of 3D Interactive Environment in Physical Protection Education and Training
12:00–12:20	230	R. Hale	United States of America	Training for Nuclear Facility Sabotage Analysis
12:20–12:40	198	T. Löfstström Johnsson	Sweden	Training of New Security Inspectors - The Swedish Program from a Participant's Point of View
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

THURSDAY, 16 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 4D:

Insider Threat & Trustworthiness

(Press Room)

Chairpersons: J. Kutuvan, India
K. Mrabit, Morocco

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	101	I. Khripunov	United States of America	Nuclear Security Culture as a Tool to Address Insider Threat
11:20–11:40	111	S. Chen	Japan	Vision-based Hand Motion Recognition for Insider Sabotage Detection using Deep Learning
11:40–12:00	241	M. Snell	United States of America	Approaches and Modeling Techniques to Determine System Effectiveness Against Insider Collusion
12:00–12:20	148	H. Nakamura	Japan	Introduction and Implementation of Physical Protection Measures including Trustworthiness Program at Tokai Reprocessing Facilities
12:20–12:40	28	A. Saihood	Iraq	Intrusion Detection Measures Against Insider Threats At Al-Tuwitha Nuclear Site
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

THURSDAY, 16 NOVEMBER 2017

11:00–13:00 TECHNICAL SESSION 4E:
Management of Sensitive Information
(Conference Room M3)

Chairperson: Z. Xu, China

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00–11:20	283	V. Janjić	Serbia	Nuclear Security of Regulatory Authority
11:20–11:40	192	A. Cowie	Australia	Considerations for Deploying a Security Information and Event Management System supporting Physical Protection Systems in Nuclear Facilities
13:00–14:00	Lunch Break / Side Events		<i>For full list of side events, see the Schedule of Side Events at the end of the Programme</i>	

THURSDAY, 16 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 4B-2:

Physical Protection Measures: Facilities

(Board Room B/M1)

Chairpersons: N. Uetake, Japan
O. Heinonen, Finland

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	30	R. Onoja	Nigeria	Physical Protection of Nuclear Materials and Nuclear Facilities, Nigerian Nuclear Fuel Conversion the Progress Made
14:20–14:40	113	A. Pérez-Baez	Spain	Best Physical Protection Practices at Spanish Nuclear Power Plants
14:40–15:00	149	M. Shohag	Bangladesh	A Comprehensive Study on the Physical Protection of Baec Triga Research Reactor and Status of Nuclear Material Accountancy and Control in the Facility
15:00–15:20	219	A. Rduch	Germany	Nuclear Security during the Decommissioning of NPPs
15:20–15:40	174	M. Dragusin	Romania	Lessons Learned Regarding Physical Protection System At VVR-S Nuclear Research from IFIN-HH to Implement Preparatory Measure for Loading HEU and LEU Nuclear Spent Nuclear Fuel Assemblies, Loading Activities and Shipments by Road and Air from Romania to Russian Federation
16:00–16:30	Coffee / Tea Break		Poster Presentations	

THURSDAY, 16 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 4F-1:

Nuclear Security Transport

(Board Room A)

Chairpersons: M. Alifei, Chad
T. Nielsen, Sweden

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	297	B. Whittard	United Kingdom	Planning & Executing an International Transport of Category I Nuclear Materials – the UK Delivering Specialist Nuclear Services with Pride
14:20–14:40	222	C. Tertrais	France	A Performance Based Approach for the Security of Nuclear Materials in Transport or “Answer the Threat not the Prescription”
14:40–15:00	181	M. Doehler	Germany	Vulnerability Assessment for Sabotage during Nuclear Transport in Germany
15:00–15:20	88	M. Botha	Australia	Regulating the Transport of UOC in Australia
15:20–15:40	260	R. Pope	United States of America	Training on Security during Transport of Nuclear and Other Radioactive Materials
16:00–16:30	Coffee / Tea Break		Poster Presentations	

THURSDAY, 16 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 4G-1:

Computer Security: Approaches
(Press Room)

Chairpersons: **J. Trolle, France**
 A. Bhattacharjee, India

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	62	M. Hossain	Bangladesh	Benchmarking Security Standards and Knowledge Innovations of Physical Protection of Nuclear Materials and Facilities: Organization Absorptive Capacity Perspectives
14:20–14:40	214	M. Hildebrandt	Germany	Exploring the Possibility of Forensic Investigations on Steam Turbine Governing Systems
14:40–15:00	247	S. Choi	United States	Trustworthy Design Architecture (TDA): Cyber-Physical System
16:00–16:30	Coffee / Tea Break		Poster Presentations	

THURSDAY, 16 NOVEMBER 2017

14:00–16:00 TECHNICAL SESSION 4H:

Contingency Planning

(Conference Room M3)

Chairpersons: M. Abdelaal, Egypt
R. Perc, Slovenia

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00–14:20	242	R. Natha	United States of America	Purpose and Content of Contingency Plans
14:20–14:40	255	C. Terrado	Argentina	Implementing a Nuclear Security Program in Argentina. A Policy at National Level
14:40–15:00	144	R. Maurer	United States of America	Emergency Response Contingency Measures to Respond to Unauthorized Removal of Radiological/Nuclear Material in a Nuclear Security Event
15:00–15:20	32	C. Romao	Brazil	Preparedness, Readiness and Interoperability of Contingency Forces to counter an incident of Nuclear Security
15:20–15:40	128	S. Sugarman	United States of America	When Protection Measures Fail – Health Physics Support of Medical Response
16:00–16:30	Coffee / Tea Break		Poster Presentations	

THURSDAY, 16 NOVEMBER 2017**16:00–16:30 Poster Session****POSTER PRESENTATIONS*****(In Front of Board Room A)***

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11	72	X. Bastidas Pazmiño	Ecuador	Strengthening of Integrated Police Operations Under a Multidisciplinary Approach to Prevention, Detection, Research, Reduction and Response to Radiological Threats
12	91	Y. Kang	Republic of Korea	Improvement of Transportation Protection System Using Fusion Technology
13	153	M. Kang	Republic of Korea	Bayesian Approach for Intrusion Detection in Physical Protection System
14	248	E. Ofoegbu	Nigeria	Legislative and Regulatory Framework for Physical Protection of Nuclear and other Radioactive Material During Transport
15	299	M. Cartaxo da Costa	Brazil	A Proposal for Security Force Training and Qualification in Physical Protection

(In Front of Board Room B/M1)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
31	22	H. Eleissawi	Egypt	Impact of Electric Power Disturbances on Physical Protection System Equipments and Solution Techniques in Nuclear Facilities
32	39	Z. Cruz Reyes	Mexico	Mexico and International Cooperation
33	53	A. Tolba	Egypt	Physical Protection Enhancement For Waste Storages At Egypt's Hotlabs Center
34	302	U. Mirsaidov	Russian Federation	Physical Protection of Nuclear Materials Issues in Tajikistan

THURSDAY, 16 NOVEMBER 2017

16:00–16:30 **Poster Session**

POSTER PRESENTATIONS

(Outside Press Room)

<i>Poster Station</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
50	64	D. Tri Jatmiko	Indonesia	Nuclear Material Accounting and Control (NMAC) by Design at Pebble Bed Modular Reactor in Indonesia
51	119	D. Žarković	Serbia	Self-assessment on cyber security within Public Company "Nuclear Facilities of Serbia"
52	218	A. Otim	Uganda	Computer Forensics and Nuclear Forensics in Uganda
53	261	R. Maneechayangkoon	Thailand	Development of Information Security Policy for Thailand Nuclear Regulatory Body
54	285	C. Nickerson	United States of America	Overview Of The International Training Course For Computer Security

THURSDAY, 16 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 4B-3:

**Physical Protection Measures:
New Technologies**

(Board Room B/M1)

Chairperson: **R. Karanam, India**

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	94	A. Izmaylov	Russian Federation	Systematic Aspects of Designing Effective Physical Protection Systems of Russian Nuclear Facilities
16:50–17:10	63	Z. Yuan	China	A New Generation of Active Intrusion Detection System for Physical Protection
17:10–17:30	117	P. Finocchiaro	Italy	Radioactive Waste Monitoring: Opportunities from New Technologies
17:30–17:50	139	H. Hu	China	The Impact on Nuclear Security by the Development of Unmanned Aerial Vehicle Technology
18:30	Adjourn			

THURSDAY, 16 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 4F-2:

Nuclear Security Transport

(Board Room A)

Chairpersons: **M. Alifei, Chad**
 T. Nielsen, Sweden

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	244	A. Williams	United States of America	Improvements in Transportation Security Analysis from a Complex Risk Mitigation Framework for the Security of International Spent Nuclear Fuel Transportation'
16:50–17:10	103	A. Elabd	Egypt	Arrangement of physical protection actions during international transport of nuclear material
17:10–17:30	295	R. Burgul	United Kingdom	Cyber Security in Marine Nuclear Transport Systems
17:30–17:50	209	K. Drypolcher	United States of America	Best Practices and Lessons Learned in LANL Approaches to Transportation Security
17:50–18:10	99	K. Hocde	France	Tracking without GPS
18:30	Adjourn			

THURSDAY, 16 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 4G-2:

Computer Security: Safety and Security
(Press Room)

Chairpersons: J. Trolle, France
A. Bhattacharjee, India

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	55	M. Kandil	Egypt	Cyber Security Accidents and I&C Systems in Nuclear Power Plants
16:50–17:10	123	J. Büttner	Germany	Implementation of Computer Security Measures into Existing Physical Protection Strategies in Germany
17:10–17:30	126	R. Busquim E Silva	Brazil	Physical, Corporative and Industrial Digital Security Convergence: Gaps to Close
17:30–17:50	239	D. Gupta	Germany	Deterring, Protective, Delaying and Detective Application Security Controls for Nuclear Facilities
17:50–18:10	293	R. Piggin	United Kingdom	Integrating Cyber Security and Safety Systems Engineering Disciplines with a Common Code of Practice
18:30	Adjourn			

THURSDAY, 16 NOVEMBER 2017

16:30–18:30 TECHNICAL SESSION 4I:

Quality Management

(Conference Room M3)

Chairpersons: **Y. Kang, Republic of Korea**
 R. Rodger, United Kingdom

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:30–16:50	80	M. Brooks	United States of America	The U.S. Department of Energy's Use of Performance Testing to Evaluate the Effectiveness of Physical Security Systems
16:50–17:10	134	F. Lavia	Argentina	Physical Protection Measures and System
17:10–17:30	57	Y. Prabandari	Indonesia	Developing and Sustaining The Physical Protection for Nuclear Facilities Through Application of Nuclear Security Management System
17:30–17:50	292	G. Desvergues	France	Global Approach to the Security of Nuclear Installations and Management of their Security Level
18:30	Adjourn			

FRIDAY, 17 NOVEMBER 2017

09:00–11:00

TECHNICAL SESSION 5A:

International and Regional Cooperation

(Board Room B/M1)

Chairpersons:

C. Engelhardt, Germany

T. Otukile, Botswana

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00–09:20	236	J. Gadano	Argentina	The Role of Regional and International Organizations
09:20–09:40	138	Z. Xu	China	The Benefits And Challenges of International Cooperation to Support Nuclear Security Capacity Building
09:40–10:00	171	M. Senzaki	Japan	Japan's International Cooperation in the field of Nuclear Security within the Forum for Nuclear Cooperation in Asia (FNCA) - Current Activities and Future Challenges-
10:00–10:20	173	T. Wang	China	CIAE' Experience in 5th Collaborative Materials Exercise
10:20–10:40	187	O. Heinonen	Finland	Strengthening the Global Nuclear Order through Enhanced Reporting Mechanisms
10:40–11:00	190	H. Rehman	Pakistan	Challenges and Responses for Ensuring Physical Protection of Nuclear Materials and Facilities : Prospects and Opportunities
11:00–11:15	Break			

FRIDAY, 17 NOVEMBER 2017

09:00–11:00 TECHNICAL SESSION 5B:

Training & Capacity Building: Nuclear
Security Support Centres

(Board Room A)

Chairpersons: R. Matsuzawa, Japan
R. Kumar, India

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA–CN–254–</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00–09:20	175	S. Gu	China	China's Practice in COE Operation and Nuclear Security Training & Education
09:20–09:40	210	V. Derouet	France	The French Nuclear Centre of Excellence - CoE
09:40–10:00	235	T. Bieda	Argentina	Centre of Excellence in Argentina
10:00–10:20	232	K. Leifheit	United States of America	US Center for Security Technology, Analysis, Response, and Testing
10:20–10:40	124	R. Mellouki	Morocco	Moroccan Nuclear Security Training and Support Centre: Contribution Tool for National Capacity Building
11:00–11:15	Break			

FRIDAY, 17 NOVEMBER 2017

09:00–11:00 TECHNICAL SESSION 5C:

Computer Security Assurance Activities

(Press Room)

Chairpersons: **Z. Wang, China**
 M. Fabro, Canada

CONTRIBUTED PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-254-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00–09:20	104	L. Setianingsih	Indonesia	Cyber Security Assessment in Supporting Nuclear Security for Nuclear Material Storage
09:20–09:40	108	E. Riyadi	Indonesia	Assessment for Information Security Systems Based on COBIT 5 in Indonesian Nuclear Energy Regulatory Agency
09:40–10:00	193	T. Nielsen	Sweden	How to Arrange Exercises in Cyber Security
11:00–11:15	Break			

FRIDAY, 17 NOVEMBER 2017

11:15–12:45

MAIN PANEL SESSION 5D:

**CPPNM/A: International Cooperation for
Physical Protection of Nuclear Material
and Nuclear Facilities**

(Board Room B/M1)

Moderator:

S. Mallam, Nigeria

INVITED SPEAKERS

Time

Name of Speaker

11:15–11:30

A. Atkins, United States of America
US Department of Energy

11:30–11:45

S. Udum, Turkey
Hacettepe University

11:45–12:00

C. Tertrais, France
Ministry of Environment, Energy and the Sea

12:00–12:15

R. Kumar, India
Department of Atomic Energy

12:15–12:45

Discussion Period

12:45–13:00

Break

FRIDAY, 17 NOVEMBER 2017

13:00–13:30

**President's Remarks and Closing Session
5E**

(Board Room B/M1)

Marta Žiaková, Slovakia
Conference President

Summary of the Conference

Yukiya Amano, IAEA
Director General

Closing Remarks by the IAEA

SCHEDULE OF SIDE EVENTS

Monday, 13 November 2017

- 12:45–14:00 Evolving Threats and Advanced Technology –
What does it mean for Nuclear Security?
- Organized by the World Institute for Nuclear Security (WINS)*
- What will be the impact of Big Data and Data Analytics, Behavioural and Biometric Analysis, Robotic Guards and Remotely Operated Weapons Systems, Small Modular Reactors (SMR) and a world that is interconnected in real time like never before?
- (Press Room)*

Tuesday, 14 November 2017

- 13:00–14:00 Shapash Research Institute 3D Model
- Organized by the IAEA Department of Nuclear Safety and Security*
- The side event will take attendees on a tour of the Shapash Nuclear Research Institute 3D interactive model. Presenters will provide background on how the model was developed for the IAEA, the technical specifications, and how the model is used to support IAEA training.
- (Press Room)*

Wednesday, 15 November 2017

- 13:00–14:00 Nuclear Security e-Learning
- Organized by the IAEA Department of Nuclear Safety and Security*
- This event will showcase the suite of IAEA nuclear security e-learning modules and engage a wide range of users in an interactive and hands-on session, including demonstrations of different modules.
- (Press Room)*

Thursday, 16 November 2017

- 13:00–14:00 Opportunities for Training with Virtual/Augmented Reality
- Organized by the US Department of Energy*
- Virtual and Augmented Reality technologies can be used for human capacity building and professional development. These commercially-available products provide a unique user experience that allows for self-discovery, hands-on practice, and the ability to safely experience otherwise dangerous environments.
- (Press Room)*

PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as 'observers', may also be authorized to attend, but without the right to take part in the proceedings.

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

PUBLICATIONS

Proceedings

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

Orders

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

Other IAEA Publications

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

Fax: (+43 1) 2600-29302

Email: sales.publications@iaea.org

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

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 THE IAEA

2017

International Conference on Radiation Protection in Medicine: Achieving Change in Practice (CN-255), 11–15 December, Vienna, Austria

2018

Third International Conference on Human Resource Development for Nuclear Power Programmes: Meeting Challenges to Ensure the Future Nuclear Workforce Capability (CN-260), 28–31 May, Gyeongju, Republic of Korea

International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018) (CN-261), 25–29 June; Vienna Austria

FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology (CN-263), 27–31 August; Vienna, Austria

International Symposium on Communicating Nuclear and Radiological Emergencies to the Public (CN-265), 1–5 October; Vienna, Austria

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security (CN-266), 15–19 October; Brussels, Belgium

27th IAEA Fusion Energy Conference (FEC 2018) (CN-258), 22–27 October; Ahmedabad, India

Symposium on International Safeguards (CN-267), 5–9 November; Vienna, Austria

Ministerial Conference on Nuclear Science and Technology: Addressing Current and Emerging Development Challenges (CN-262), 28–30 November; Vienna, Austria

International Conference on Global Radioactive Material Security Governance: Prevention and Detection in Action (CN-269), 3–7 December, Vienna, Austria

International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions (CN-268), 10–13 December, Vienna, Austria

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

International Atomic Energy Agency
IAEA-CN-254
Vienna International Centre
PO Box 100
1400 Vienna, Austria
Tel: +43 1 2600 (0) plus extension
Fax: +43 1 26007
Email: official.mail@iaea.org

Conference web site:
<http://www-pub.iaea.org/iaeameetings/50819/Physical-Protection>



CN-254