

International Conference on Nuclear Security: Shaping the Future

20-24 May 2024

PROVISIONAL PROGRAMME

Organized by the
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

Conference Description

Introduction

ICONS 2024 will provide a global forum for ministers, policymakers, senior officials and nuclear security experts to discuss the future of nuclear security worldwide, whilst providing opportunities for exchanging information, sharing best practices and fostering international cooperation.

The conference will:

- Raise awareness of a wide range of nuclear security topics to maintain and further strengthen national nuclear security regimes for nuclear and other radioactive materials and associated facilities used for peaceful purposes, as well as international cooperation in strengthening nuclear security globally;
- Review nuclear security experiences and achievements, current approaches and trends, and highlight areas that may need more focused attention including technological dimensions;
- Promote IAEA nuclear security guidance, and experience of States in their application, including through peer reviews, advisory services and capacity building;
- Promote the sharing of information and good practices in nuclear security while protecting sensitive information;
- Reaffirm and support the central role of the IAEA in strengthening nuclear security globally and in leading the coordination of international activities in the field of nuclear security, while avoiding duplication and overlap;
- Highlight and promote the IAEA's efforts to promote adherence to relevant international legally binding instruments and commitment to legally non-binding instruments; and
- Discuss further enhancements of IAEA nuclear security activities and their sustainability.

Registration and Attendance

Conference participants are advised to arrive at Checkpoint 1/Gate 1 of the Vienna International Center at least one hour before the start of the Conference on the first day in order to allow for timely registration, security check, and issue of grounds passes. Gate 1 will be open at 0800 for registration on Monday morning.

Alternatively, participants can also register on Sunday, 19 May from 12:00 to 18:00.

Grantees and Invited Speakers who have received financial support from the IAEA should register their attendance at the Information Desk at the entrance of the M Building. The Information Desk and the Conference Secretariat in MOE68 will be staffed throughout the Conference and will be ready to assist at any time.

Conference App

The IAEA Conferences and Meetings App provides one-stop access to information on the Conference Programme, the exhibition, and scheduled side events. The App also allows users to put together their own personalized schedule of events. Via this App, participants will be able to follow the livestreaming of the conference, view information associated with each presentation, view the latest Conference Programme, interact with other participants, and view presentation materials released after each event. Participants will receive an email inviting them to register for the App approximately one week before the conference.

Conference Website & Nuclear Security Information (NUSEC) Portal

The Conference Website, [International Conference on Nuclear Security: Shaping the Future](#) provides information on the Conference schedule, registration procedures and more general information.

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, 20 May, and Tuesday, 21 May, comprise the Ministerial Segment of the conference, during which ministers and heads of delegation will have an opportunity to make national statements related to nuclear security. A Ministerial Declaration is expected to be adopted during the plenary session on the morning of Monday, 20 May.

Participants in the Scientific and Technical Programme are welcome to follow the proceedings of the Ministerial Segment in overflow rooms Board Room A and M2.

The Scientific and Technical Programme will commence on Tuesday, 21 May and will continue through the rest of the week, concluding with the President's Report on Friday afternoon. This programme consists of four plenary sessions and 52 technical sessions that cover a wide array of topics relevant to nuclear security. The plenary sessions will take place in Board Room B, while the parallel technical sessions will take place in Board Rooms A and B, and Conference Rooms M2, M3, M4, M5, M6 and M7.

All sessions are related to the four main Conference themes:

- Theme 1: Policy, law and regulations for nuclear security.
- Theme 2: Technology and infrastructure for nuclear security prevention, detection and response.
- Theme 3: Capacity building for nuclear security.
- Theme 4: Cross-cutting nuclear security topics.

An IAEA reception for all participants will be held on Wednesday, 29 May from 17:30-19:30 on the ground floor of the M Building.

Flash Presentations

In order to foster the exchange of ideas between nuclear security experts from around the world, ICONS 2024 will provide opportunities for authors to present their work to an audience of their peers. Each individual whose abstract was accepted to be presented as a 'poster' will present their work during a Flash Presentation event on Thursday, 23 May. Individual flash presentations will be grouped by Conference theme and presented sequentially in a dedicated Conference room. After all authors have presented, time will be allocated for participants to network with other presenters and share ideas related to the content of their work. Presentations will be released on the Conference App after the session.

The Nuclear Security Delegation for the Future

The inaugural Nuclear Security Delegation for the Future was an initiative launched by the IAEA to identify the next generation of nuclear security specialists and contribute to their professional development. Following a call for applications for students and early career professionals, 24 individuals were accepted from a pool of highly qualified applicants to travel to Vienna and take an active role in ICONS 2024. In the months leading up to ICONS, Delegates were asked to collaborate closely, drawing on their individual academic and professional backgrounds to discuss the future of nuclear security and ultimately draft a statement to be presented at the Conference. Through this joint effort, the Nuclear Security Delegation for the Future sought to tangibly demonstrate cooperative global leadership among young nuclear security professionals while actively contributing to the international discussion surrounding nuclear security.

Discussions

Anyone who wishes to take the floor, e.g., during discussions, should, after having been recognized by the Chairperson, use one of the microphones available in the meeting room and begin their question or comment by stating their name and country or organization. Participants are asked to be as concise as possible.

The Media

The media will have access to the Opening Plenary session, National Statement sessions, Ministerial Panel session, the four Scientific and Technical Plenary sessions and the Closing Session.

Side Events

A number of side events are scheduled throughout the Conference Programme, organized by interested Member States and Organizations and will present on a number of topics relevant to nuclear security. Side events are open to all Conference participants. A full schedule of side events can be found at the end of this Programme.

Exhibition

Exhibitors will provide an overview of information regarding their capabilities to support nuclear security efforts. Participants are encouraged to visit the Conference exhibits.

Coffee Breaks

Coffee and tea will be available during the morning and afternoon breaks courtesy of voluntary contributions. The coffee breaks will be held on the ground floor and first floor of the M Building. Please take the time to visit and network with colleagues, attendees and presenters.

Internet Access

Public access Wi-Fi is available throughout the IAEA buildings. Select access point WLAN-GUEST and the connection will be automatic. No password is needed.

Bank and Post Office

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

Conference Presidency:

Conference Co-Presidents: Australia –HE Tim Watts MP, Assistant Minister for Foreign Affairs
Kazakhstan – HE Kairat Umarov, First Deputy Minister of Foreign Affairs

IAEA Secretariat:

Scientific Secretary: Ms Sara Mroz

Scientific and
Administrative Support: Mr Bryan Denehy
Mr Christian Deura

Ms Selbi Atayeva
Ms Ruth Fikare
Mr Sergiy Frolov
Ms Sarah Henry Bolt
Mr Sen Li
Ms Paulina Rosol-Barrass
Ms Hayley Sears
Ms Vasiliki Tafili
Ms Diana Tutunjyan

Conference Coordinator: Mr Sanjai Padmanabhan
Mr Erik Paniagua-Miranda
Ms Lara Popescu
Ms Martina Neuhold

Conference Venue: International Atomic Energy Agency
Vienna International Centre (VIC)
M Building

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

Working Language: The working languages of the Ministerial Segment will be the six official languages of the IAEA: Arabic, Chinese, English, French, Russian and Spanish. Interpretation into all six official languages will also be provided during the Interactive Ministerial Session.

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

Programme Committee:

Chairpersons

C. Danestig Sjögren	Sweden	Co-Chair PCM 1
HE A. Solano Ortiz	Costa Rica	Co-Chair PCM 1
V. García Gutiérrez	Costa Rica	Co-Chair PCM 2 & 3
A. Nilsson	Sweden	Co-Chair PCM 2 & 3

Members

M. Roston	Argentina
M. Via	Argentina
P. Zunino	Argentina
K. Kirakosyan	Armenia
D. Manukyan	Armenia
A. Mikayelyan	Armenia
M. Francis	Australia
J. Lee	Australia
M. Vieira	Brazil
M. Da Silva Giafferi	Brazil
C. Romao	Brazil
A. Roza de Lima	Brazil
Y. Dimitrova	Bulgaria
P. Endezoumou	Cameroon
A. Simo	Cameroon
A. Breton	Canada
C. Cochrane	Canada
L. Hartery	Canada
N. Semblat	Canada
C. Chen	China
J. Ju	China
Z. Li	China
H. Lu	China
Q. Wei	China
HE C. Guillermet-Fernández	Costa Rica
L. Carballo	Costa Rica
O. Abdelgawad	Egypt
M. Hamdy	Egypt
N. Nawwar	Egypt
J. Galy	European Union
M. Nauduzaitė	European Union
F. Cotel	France
V. Lesage	France
S. Paultre	France
W. Rother	Germany

H. Kroeger	Germany
S. Adu	Ghana
R. Agalga	Ghana
S. Dampare	Ghana
S. Karri	India
S. Ayyappan	India
F. Bacconnier	International Criminal Police Organization (INTERPOL)
M. Jugheli	International Criminal Police Organization (INTERPOL)
G. Sedda	Italy
J. Frischknecht	Japan
K. Hamada	Japan
N. Kuribayashi	Japan
Z. Molnar	Japan
S. Sato	Japan
T. Zayerh	Morocco
S. Jonah	Nigeria
O. Okiti	Nigeria
U. Ghiyas	Pakistan
A. Shakoor	Pakistan
G. Ud-Din	Pakistan
A. Vigil Puga	Panama
I. Olea	Philippines
D. Umingli	Philippines
J. Hoon Lee	Republic of Korea
A. Dedu	Romania
M. Georgescu	Romania
E. Blagodarina	Russian Federation
D. Bokov	Russian Federation
A. Bulychev	Russian Federation
S. Marogulov	Russian Federation
V. Ostropikov	Russian Federation
A. Althomali	Kingdom of Saudi Arabia
M. Ashary	Kingdom of Saudi Arabia
M. Majози	South Africa
A. de las Casas Fuentes	Spain
F. Yllera Sanchez	Spain
M. Hassan Mohammed Abuuznien	Sudan
A. Franzén	Sweden
B. Laggner	Switzerland
M. Oberle	Switzerland
R. Straub	Switzerland
B. Ozyardimci	Türkiye
E. Soylu	Türkiye
H. Zhang	UN 1540 Committee
M. De Carlini	United Kingdom
C. Claydon	United Kingdom

B. Daly	United Kingdom
T. Eagleton	United Kingdom
O. Shofoluwe	United Kingdom
P. Smith	United Kingdom
N. Sobey	United Kingdom
C Sommerstein	United Kingdom
F. Miorin	United Nations Interregional Crime and Justice Research Institute (UNICRI)
M. Lorenzo Sobrado	United Nations Office on Drugs and Crime (UNODC)
S. Ayers	United States of America
M. Dingerdissen	United States of America
L. Duchene	United States of America
A. Fragoyannis	United States of America
A. Hallock	United States of America
S. Asrar	United States of America
S. Neakrase	United States of America
P. O'Brien	United States of America

Nuclear Security Delegation for the Future:

C. Boix	Argentina
F. Saponara	Argentina
A. Vipond	Australia
N. White	Australia
A. Carvalho	Brazil
E. Lukawiecki	Canada
M. Tougas-Cooke	Canada
H. Wang	China
O. Van Geluwe	France
W. Massiata	Ghana
Y. Rakhmatulla	Kazakhstan
TZ. Win	Myanmar
A. Aliyu	Nigeria
C. Vasiliu	Romania
Z. Asulian	Russian Federation
M. Carew	Sierra Leone
S. Lim	Singapore
T. Mustafa	Sudan
D. Mafie	United Republic of Tanzania
M. Ozbek	Türkiye
M. Clarke	United Kingdom
M. Fearon	United Kingdom
W. Martinez	United States of America
M. Sorroza	United States of America

IAEA Mobile Conference Application



Participants are encouraged to download the 'IAEA Conference and Meetings' App available on Google Play and the iTunes Store.

Android

iPhone



The functions and features of the App for smartphones and tablets will be used for various purposes during the event:



View an up-to-date Programme



Check floor map of the session rooms and exhibitors' booths



Read abstracts and full papers of speakers



Send message to other participants



Receive announcements via push-notification

If you have questions or require assistance on the App, please contact the Information Desk at the entrance of the M Building.

Code	Conference Segment/Conference Theme
MS	Ministerial Segment
TS	Scientific and Technical Segment
PS	Plenary Session
FPE	Flash Presentation Event
PLR	Policy, Law and Regulations for Nuclear Security
TI	Technology and Infrastructure for Nuclear Security Prevention, Detection and Response
CB	Capacity Building for Nuclear Security
CC	Cross-Cutting Nuclear Security Topics

TIMETABLE

Sunday, 19 May 2024

Time	Session Title / Activity	Venue
12:00-18:00	<i>Registration</i>	Gate 1

Monday, 20 May 2024

Time	Session No.	Session Title / Activity	Venue
08:00-ongoing		<i>Registration</i>	Gate 1
10:00-11:00	MS 1.A	Opening Plenary: Ministerial Segment	Plenary
11:00-13:00	MS 1.B	National Statements	Plenary
13:00-14:00		<i>Break</i> <i>Exhibition Viewing</i>	
14:00-15:00	MS 1.C	Plenary Panel: Securing Sustainable Progress: The Important Role of Nuclear Security in Advancing the Sustainable Development Goals	Plenary
15:00-17:00	MS 1.D	National Statements	Plenary

Tuesday, 21 May 2024

Time	Session No.	Session Title / Activity	Venue
08:00-ongoing		<i>Registration</i>	Gate 1
09:00-10:30	PS 2	Opening Plenary: Scientific and Technical Segment Plenary Panel: Policy, Law and Regulations in an Evolving Nuclear Security Landscape (PLR)	Plenary
10:30-13:30	MS 2.A	National Statements	Plenary
10:30-11:00		<i>Break</i> <i>Exhibition Viewing</i>	
11:00-12:30	TS 2.A	Establishing Strong Nuclear Security Programmes (CB)	M2
11:00-12:30	TS 2.B	Shared Challenges, Shared Solutions: Regional and International Cooperation to Enhance Nuclear Security (CC)	M3
11:00-12:30	TS 2.C	Exploring the Interfaces between Nuclear Security and State Systems of Accounting and Control (TI)	M4
11:00-12:30	TS 2.D	Protecting the Public: Implementing Nuclear Security Measures for Major Public Events (TI)	M5
11:00-12:30	TS 2.E	Global Perspectives on Nuclear Security Regulations for SMRs (PLR)	BR-A
12:30-14:30		<i>Break</i> <i>Side Events</i> <i>Exhibition Viewing</i>	

Time	Session No.	Session Title / Activity	Venue
14:30-16:00	MS 2.B	Interactive Ministerial Session (Registration Required)	BR-C/ C Building
14:30-16:00	TS 2.F	Nuclear Forensics' Role in Bolstering International Nuclear Security (TI)	M2
14:30-16:00	TS 2.G	Equality in Action: Strategies for Establishing an Inclusive Workforce (CB)	M3
14:30-16:00	TS 2.H	Improving National Detection and Response Capabilities for Material Outside of Regulatory Control (TI)	M4
14:30-16:00	TS 2.I	Strategies for Strengthening Regulatory Frameworks for the Transport of Nuclear and Other Radioactive Material (PLR)	M5
14:30-16:00	TS 2.J	Safety Meets Security to Ensure a Safe and Secure Future (CC)	BR- A
16:00-20:30	MS 2.C	National Statements	Plenary
16:00-17:15		<i>Side Events</i> <i>Exhibition Viewing</i>	

Wednesday, 22 May 2024

Time	Session No.	Session Title / Activity	Venue
08:00-09:00		<i>Side Events</i>	
09:00-10:30	PS 3	Plenary Panel: Managing the Threats and Benefits of Emerging Technologies (TI)	Plenary
10:30-11:00		<i>Break</i> <i>Exhibition Viewing</i>	
11:00-12:30	TS 3.A	Competence Building and Human Resource Management for a Robust Nuclear Security Workforce (CB)	M2
11:00-12:30	TS 3.B	A Continental Case Study: Lessons Learned in Regulation Development in the African Region (PLR)	M3
11:00-12:30	TS 3.C	Secure from the Start: Issues in Supply Chain Security (TI)	M4
11:00-12:30	TS 3.D	From Construction to Closure: Approaches to Sustainable and Secure Life Cycle Management and Decommissioning Practices (TI)	M5
11:00-12:30	TS 3.E	Exploring the Practical Uses and Potential Threats of Artificial Intelligence (TI)	BR-A
11:00-12:30	TS 3.F	The IAEA Can Help You: National Case Studies on IAEA Advisory Services and Assistance Missions (CC)	BR-B
12:30-14:00		<i>Break</i> <i>Exhibition Viewing</i> <i>Side Events</i>	
14:00-15:30	TS 3.G	Charting the Way Forward: Assessing Current and Future Challenges on the Implementation of the A/CPPNM (PLR)	M2
14:00-15:30	TS 3.H	Digital Defense: Preparing for and Defending Against Cyber Attacks (CC)	M3
14:00-15:30	TS 3.I	Beyond the Chalkboard: Modernizing Nuclear Security Training (CB)	M4
14:00-15:30	TS 3.J	Is The Source Secure? Case Studies in Radioactive Source Security (TI)	M5
14:00-15:30	TS 3.K	Eyes on the Sky: Strategies to Mitigate the Threats Posed by Uncrewed Aerial Systems (TI)	BR-A
14:00-15:30	TS 3.L	Potential Security Solutions for Traditional and Emerging Reactor Technologies (TI)	BR-B
15:30-16:00		<i>Break</i> <i>Exhibition Viewing</i>	
16:00-17:30	TS 3.M	Better Together: Experiences in International Cooperation for Regulatory Implementation (PLR)	M2
16:00-17:30	TS 3.N	Assessing and Evaluating Physical Protection Systems in an Evolving Threat Landscape (TI)	M3
16:00-17:30	TS 3.O	Education to Excel: Lessons Learned from National Training Centres and Institutes (CB)	M4

Time	Session No.	Session Title / Activity	Venue
16:00-17:30	TS 3.P	Exploring Industry's Role in Supporting and Advancing Nuclear Security (CC)	M5
16:00-17:30	TS 3.Q	From Threats to Solutions: Assessing and Mitigating Cybersecurity Risk (CC)	BR-A
16:00-17:30	TS 3.R	Threats or Opportunities? Confronting the Non-Traditional Challenges Posed by Emerging Technology (TI)	BR-B
17:30-19:30		<i>Reception</i>	M Building

Thursday, 23 May 2024

Time	Session No.	Session Title / Activity	Venue
08:00-09:00		<i>Side Events</i>	
09:00-10:30	PS 4	Plenary Panel: Shaping the Future: Retaining and Developing the Nuclear Security Workforce of Tomorrow (CB)	Plenary
10:30-11:00		<i>Break Exhibition Viewing</i>	
11:00-12:30	TS 4.A	The Threat from Within: Addressing and Mitigating the Insider Threat (TI)	M2
11:00-12:30	TS 4.B	Bits and Bytes: Computer Security Considerations for Regulatory Framework (PLR)	M3
11:00-12:30	TS 4.C	Radiation Detection Instruments for Nuclear Security: Strategies for Optimizing Performance (TI)	M4
11:00-12:30	TS 4.D	Preparing for the Future: Lessons Learned and Developments in Nuclear Security Event Response (TI)	M5
11:00-12:30	TS 4.E	Security – It's What We Do: Developing and Maintaining a Robust Nuclear Security Culture (CC)	BR- A
11:00-12:30	TS 4.F	Securing Our Future: Empowering and Enabling the Next Generation of Nuclear Security Professionals (CB)	BR- B
12:30-14:00		<i>Break Exhibition Viewing Side Events</i>	
14:00-15:30		Flash Presentation Event for Posters	
	FPE 4.A	Capacity Building for Nuclear Security	BR- A
	FPE 4.B	Cross-Cutting Nuclear Security Topics	M2
	FPE 4.C	Technology and Infrastructure	M3
	FPE 4.D	Technology and Infrastructure	M4
	FPE 4.E	Technology and Infrastructure	M5
	FPE 4.F	Policy, Law and Regulations	M6
15:30-16:00		<i>Break</i>	
16:00-17:30	TS 4.G	Shaping the Future Together: International Cooperation in Training and Capacity Building (CB)	M2
16:00-17:30	TS 4.H	Strengthening Regulatory Frameworks for Radioactive Sources Throughout the Life Cycle (PLR)	M3
16:00-17:30	TS 4.I	Step One: The Use of DBT and Threat Assessment to Know the Adversary (TI)	M4
16:00-17:30	TS 4.J	Managing and Mitigating Threats from Counterfeit, Fraudulent and Suspect Items (TI)	M5
16:00-17:30	TS 4.K	Exploring Successful Implementation Strategies for Nuclear and Other Radioactive Material Transport Security (TI)	BR- A
16:00-17:30	TS 4.L	Exploring the Role of Civil Society in Shaping the Future of Nuclear Security Together (CC)	BR- B
17:30-18:45		<i>Side Events</i>	

Friday, 24 May 2024

Time	Session No.	Session Title / Activity	Venue
09:00-10:30	PS 5.A	Plenary Panel: Looking Forward: The Evolving Role of the IAEA	Plenary
10:30-10:45		<i>Break</i>	
10:45-12:15	TS 5.A	Building Resilience: Sustaining and Enhancing National Nuclear Security Detection Architectures (TI)	M2
10:45-12:15	TS 5.B	Fortifying the Foundations: Implementing Physical Protection Systems and Measures (TI)	M3
10:45-12:15	TS 5.C	Sharing Successes and Lessons Learned from National Training Initiatives (CB)	M4
10:45-12:15	TS 5.D	Regulatory Frameworks Around the World: National Best Practices (PLR)	M5
10:45-12:15	TS 5.E	From Commitments to Action: Perspectives on Implementing Legal Provisions for Nuclear Security (PLR)	BR-A
10:45-12:15	TS 5.F	Let's Talk about Nuclear Security: Considerations for Public Communication (CC)	BR-B
12:15-13:00		<i>Break</i>	
13:00-14:30	TS 5.G	Adapting to Adversity: Ensuring Nuclear Security in Complex and Challenging Environments (CC)	M2
13:00-14:30	TS 5.H	Regulations for the Future: Adapting and Implementing Regulatory Frameworks for Materials and Facilities (PLR)	M3
13:00-14:30	TS 5.I	Developing Approaches to Risk and Threat Assessments for Robust Nuclear Security (CC)	M4
13:00-14:30	TS 5.J	Prepared to Respond: National Strategies for Nuclear Security Events (TI)	M5
13:00-14:30	TS 5.K	Leveraging Interactive Methods for Enhancing Nuclear Security Capacity Building (CB)	M6
13:00-14:30	TS 5.L	From Theory to Practice: Insights and Innovations in Nuclear Security Education (CB)	M7
14:30-15:00	PS 5.B	Closing Plenary	Plenary

DETAILED PROGRAMME

MONDAY, 20 May 2024: Ministerial Segment

Time	Session No.	Session Title / Activity	Venue
08:00-ongoing		Registration	Gate 1
10:00-11:00	MS 1.A	Opening Plenary: Ministerial Segment Rafael Mariano Grossi Director General, IAEA HE Tim Watts MP, Australia Assistant Minister for Foreign Affairs Co-President HE Kairat Umarov, Kazakhstan First Deputy Minister of Foreign Affairs Co-President HE Dario Chiru Ochoa, Panama Ambassador and Permanent Representative Co-President ICONS 2020 HE Stelian Stoian, Romania Ambassador and Permanent Representative Co-President ICONS 2020	Plenary
11:00-13:00	MS 1.B	National Statements	Plenary
13:00-14:00		Break	
14:00-15:00	MS 1.C	Plenary Panel: Securing Sustainable Progress: The Important Role of Nuclear Security in Advancing the Sustainable Development Goals Lydie Evrard Deputy Director General and Head of the Department of Nuclear Safety and Security, IAEA Dimitar Dimitrov, Bulgaria Rector of the University of National and World Economy, Bulgaria Luis Manuel Avila Ayala, Guatemala Chief Executive, Head of the Programme of Moscamed Guatemala Isaac Waweru Mundia, Kenya Deputy Director, Nuclear Security and Physical Protection, Kenya Nuclear Regulatory Authority Victoria Kachimera, Malawi Acting Executive Director, Atomic Energy Regulatory Authority, Malawi Hannah Vaughan Jones Moderator	Plenary
15:00-17:00	MS 1.D	National Statements	Plenary

TUESDAY, 21 May 2024: Ministerial Segment

Time	Session No.	Session Title / Activity	Venue
<i>08:00-ongoing</i>		<i>Registration</i>	Gate 1
<i>10:30-13:30</i>	MS 2.A	National Statements	Plenary
<i>13:30-14:30</i>		<i>Break</i> <i>Exhibition Viewing</i>	
<i>14:30-16:00</i>	MS 2.B	Interactive Ministerial Session (Registration Required)	BR-C/ C Building
<i>16:00-20:30</i>	MS 2.C	National Statements	Plenary

TUESDAY, 21 May 2024

09:00-10:30

Plenary Session PS 2:

Plenary

**Opening Plenary: Scientific and
Technical Segment**

Name and Title	Country/Organization	Title
L. Evrard Deputy Director General and Head of the Department of Nuclear Safety and Security	IAEA	Opening Remarks
E. Buglova Director, Division of Nuclear Security	IAEA	Remarks
S. Mroz Scientific Secretary	IAEA	Remarks

**Plenary Panel: Policy, Law and
Regulations in an Evolving Nuclear
Security Landscape (PLR)**

Moderator **H. Vaughan Jones**

Technical Officer **H. Looney, IAEA**

Rapporteur **H. Sears, IAEA**

Speaker	Country/Organization	Title
D. Moroz	Canada	Director General of Security and Safeguards, Canadian Nuclear Safety Commission
P.L. Johnson	IAEA	Legal Advisor and Director, Office of Legal Affairs
S. Tanaka	Japan	Commissioner, Nuclear Regulatory Authority of Japan
K. Aleissa	Kingdom of Saudi Arabia	Chief Executive Officer, Nuclear and Radiological Regulatory Commission
B. Laggner	Switzerland	Co-President of the 2022 Conference of the Parties to the Amendment to the CPPNM

TUESDAY, 21 May 2024

11:00–12:30

Technical Session 2.A

Conference Room M2

Establishing Strong Nuclear Security Programmes (CB)

Chair R. Sardella, Switzerland
Technical Officer A. Livsic, IAEA
Assistant TO TZ. Win, Nuclear Security Delegation for the Future
Rapporteur R.N. Samba, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Amasi	United Republic of Tanzania	45	Capacity and Competence Building in Nuclear Security in Developing Countries
I. Mirsaidzoda	Republic of Tajikistan	158	Nuclear Security Capacity Building in Tajikistan: Challenges and Ways Forward
S. Thantar	Myanmar	166	Capacity Building to Achieve Sustainable Nuclear Security Education and Training in Myanmar
K. Angeyo	Kenya	407	A Retrospective Assessment of the Role of Key Universities in New Nuclear Power Programmes: Nairobi's Decade Engagement in Capacity Building in Nuclear Security and Forensics Research
I. Chairam	Thailand	425	Strengthening Nuclear Security Capacity in Thailand and the ASEAN Region to Meet the Challenges of the Future
W. Isaacs	World Institute for Nuclear Security (WINS)	635	Contributing to the Advancements in Civil Nuclear Technologies for Sustainable and Long Term Energy Demands in Latin America, Through Capacity Building and Workforce Development

TUESDAY, 21 May 2024

11:00–12:30

Technical Session 2.B

Conference Room M3

**Shared Challenges, Shared Solutions:
Regional and International Cooperation
to Enhance Nuclear Security (CC)**

Chair K. Mrabit, Morocco
Technical Officer A. Khamzayeva, IAEA
Assistant TO N. White, Nuclear Security Delegation for the Future
Rapporteur B. Battistella, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
N. Noro	Japan	39	Effective and Efficient Radiological Security Capacity Building Support for Asian Region: US-Japan Partnership
B. Rotim	Croatia	106	RACVIAC – U.S. Regional Cooperation to Strengthen Nuclear Security in Southeastern Europe
B. Thi Thuy Anh	Viet Nam	254	Leveraging International Partnerships to Foster Evolving Radiological Source Security
J. Chamberlin	United States of America	335	HEU Minimization in the 21 st Century: A Shifting Landscape
E. Ampomah-Amoako	Ghana	359	Nuclear Security Cooperation Among Nuclear Regulators in Africa
B. Stauffer	European Nuclear Security Regulators Association (ENSRA)	594	Lessons learnt from the formation of the European Nuclear Security Regulators Association (ENSRA)
J. Gadano	Argentina	691	A Regional Approaches to Nuclear Security Dialogue

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11:00–12:30

Technical Session 2.C

Conference Room M4

**Exploring the Interfaces between
Nuclear Security and State Systems of
Accounting and Control (TI)**

Chair M. Ziakova, Slovakia
Technical Officer A. Lousteau, IAEA
Assistant TO M. Clarke, Nuclear Security Delegation for the Future
Rapporteur C. Thompson, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Tefera Kebede	Ethiopia	80	Challenges Associated with the Interface between Ethiopian State Systems of Accounting and Control and Nuclear Security
A. Al-Daouk	United States of America	159	Interfaces between Nuclear Security and State Systems of Accounting and control
Y. Khajynau	Belarus	184	Cybersecurity in the system of accounting for and control of nuclear material Atomic Keeper
I. Tsourounakis	Greece	196	A Study on how NMAC Measures Can Counter an Insider Threat
C. Jacquelin	France	271	French Centralized Nuclear Material Accounting: A Tool at The Heart of National Security and Safeguards Implementation
A. Mensah	Ghana	479	Considerations for Implementing Nuclear Material Accounting and Control Used to Support Nuclear Security into Regulatory Requirements: A Ghanian Experience

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Technical Session 2.D

Conference Room M5

**Protecting the Public: Implementing
Nuclear Security Measures for Major
Public Events (TI)**

Chair HE A. Solano Ortiz, Costa Rica
Technical Officer B. Kaboro, IAEA
Assistant TO F. Saponara, Nuclear Security Delegation for the Future
Rapporteur R. Pantani, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
B. Remy Wilson	Rwanda	72	Nuclear Security Defense in Depth and Graded Approach During the Past Commonwealth Heads of Government Meeting 2022 in Rwanda
L. Khalayi	Uganda	163	Considerations for Improving Public Communication in Nuclear Security Measures for Public Event
W. Shuo	China	245	Practices and Suggestions on Nuclear Security for Major Public Events
Z. Mahougnon Boniface	Benin	684	Implementation of Nuclear Security Measures for the 50 th World Petanque Championship 2023 in Benin
K. Al Ameri	United Arab Emirates	694	Nuclear Security Measures for Major Public Events in the UAE
M.Z. Ovaes	Costa Rica	N/A	Costa Rica's MPE experience: U20 Women's World Cup

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Technical Session 2.E

Board Room A

**Global Perspectives on Nuclear Security
Regulations for SMRs (PLR)**

Chair M. Gavrilas, United States of America
Technical Officer Á. Acevedo, IAEA
Assistant TO W. Martinez, Nuclear Security Delegation for the Future
Rapporteur A. Alzyoud, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
P. Karhu	Finland	157	3S Interface Considerations for Small Modular Reactors
K. Heppell-Masys	Canada	260	Modernization of the Nuclear Security Framework for SMRs – Theft and Sabotage
C. Prah	Ghana	461	Multifaceted Challenges and Opportunities Associated with Small Modular Reactors in Africa: A Nuclear Security and Nonproliferation Point of View
M. Man	United States of America	477	A Nuclear Security Regulatory Model for Small Modular Reactors
T. Languin	France	708	French Regulatory Guidance for SMRs

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Technical Session 2.F

Conference Room M2

**Nuclear Forensics' Role in Bolstering
International Nuclear Security (TI)**

Chair M. Curry, United States of America
Technical Officer C. Willett, IAEA
Assistant TO C. Vasiliu, Nuclear Security Delegation for the Future
Rapporteur Z. Yuan, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Kaci	Algeria	8	Enhancing and Maintaining of Spectrometry Expertise through Spectral Flavor of the Month: CSN's Experience
Y. Kimura	Japan	48	Recent Nuclear Forensics Technical Capability Building Efforts by Integrated Support Center for Nuclear Non-proliferation and Nuclear Security at Japan Atomic Energy Agency
M. Totland	Canada	143	A Focus on Non-destructive Testing Applied to Nuclear Forensics
N. Marks	United States of America	224	An Intentional Nuclear Forensics Approach to Support Nuclear Security
J. Zhang	China	526	Construction of Nuclear Forensic Database in China
J. Bagi	European Commission, Joint Research Centre	543	Upskilling Nuclear Forensics at Regional and International Level
C. Cochrane	Canada	668	Lessons Learned from a Decade of Nuclear Forensics Capability Development in Canada

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14:30-16:00

Technical Session 2.G

Conference Room M3

**Equality in Action: Strategies for
Establishing an Inclusive Workforce
(CB)**

Chair V. Derouet, France
Technical Officer O. Keltoum Hakam, IAEA
Assistant TO D. Mafie, Nuclear Security Delegation for the Future
Rapporteur A. Jamil, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
F. Ozge Karakas	Türkiye	218	Incorporating Diversity, Equity, Inclusion, and Accessibility in Nuclear Security Culture through Professional Regional Networks
E. Park	Republic Of Korea	219	Ways to Realize Gender Equality in the Nuclear Security: Focused on the Case of the Republic of Korea
J.L. Sablay	Philippines	337	Achieving Gender Parity in a State's Nuclear Security Regime: A Case Study of the Philippines
L. Amur	World Institute for Nuclear Security (WINS)	431	Toward Gender Equality, Diversity and Inclusion as a Core Nuclear Security Principle
M. Ekman	United States of America	436	Advances in Diversity and Inclusion in Radioactive Material Security Programs
C. Nwakanma	Nigeria	561	Strengthening Nuclear Security with Gender-Inclusive Strategies in Newcomer Countries

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Technical Session 2.H

Conference Room M4

Improving National Detection and Response Capabilities for Material Outside of Regulatory Control (TI)

Chair L. Xinxia, China
Technical Officer T. Pelletier, IAEA
Assistant TO T. Mustafa, Nuclear Security Delegation for the Future
Rapporteur J. Swarthout, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
I. Chairam	Thailand	136	Integrating Mobile-Integrated Nuclear Security Network (M-INSN) for Enhanced Radiation Detection and Response Systems in Thailand through the Scientific and Technical Support Functions of the National Nuclear Security Training and Support Centre (NSSC)
A. Ioannidou	Greece	152	Good Practices in Nuclear Security Regarding Radioactive Material out of Regulatory Control – Case Studies
C. Marianno	United States of America	198	A Method to Distinguish Background Neutron Sources from Sources Out of Regulatory Control Using a Mobile Radiation Search System
M. Yahya Riaz	Pakistan	380	PNRA Efforts for the Security of Nuclear and other Radioactive Material out of Regulatory Control (MORC)
P. Johns	United States of America	437	The Algorithm that will Eliminate Millions of Nuisance Alarms
L. Manchun	China	566	A System for Rapid Detection and Tracking of Radiation Sources at Security Gates

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14:30-16:00

Technical Session 2.I

Conference Room M5

Strategies for Strengthening Regulatory Frameworks for the Transport of Nuclear and Other Radioactive Material (PLR)

Chair C. Tertrais, France
Technical Officer J. Chung, IAEA
Assistant TO O. Van Geluwe, Nuclear Security Delegation for the Future
Rapporteur O. Kabore, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
I. Mundia	Kenya	206	Kenya's Regulatory Framework for Security of Nuclear and Radioactive Materials During Transport
B. Massing	Germany	375	A Regulatory Approach to Sabotage of Nuclear Material Transports for Densely Populated Areas
V. Zahrawati	Indonesia	393	Assessment of the Transport Security Requirements in Indonesian Government Regulation on Radiation Safety and Security on Transport of Radioactive Materials
J. Launay	France	567	How to Take into Account Temporary NM Detention Between Transports and Facilities

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Technical Session 2.J

Board Room A

Safety Meets Security to Ensure a Safe and Secure Future (CC)

Chair Z. Stefanka, Hungary
Technical Officer N. Gerceker, IAEA
Assistant TO Y. Rakhmatulla, Nuclear Security Delegation for the Future
Rapporteur N. Miyamoto, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
J. T. Harris	United States of America	42	Determining Vulnerability of a Research Reactor and Associated Facilities Through a Nuclear Safety and Security Integration Assessment Tool
E. A. Alas	United States of America	248	U.S. Department of Energy Security Risk Assessment Overall Security Risk Methodology
H. Younis	Pakistan	416	Regulatory Approach for Management of Nuclear Safety-Security Interface
A. Carvalho	Brazil	519	Nuclear Security and Safety: A Systematic Review of Climate-Resilient Measures
P. Lindahl	Sweden	601	Preliminary Reflections from The Swedish Radiation Safety Authority on Recent ADSEC/INSAG Recommendations Regarding Safety/Security Interfaces

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Plenary Session 3

Plenary

**Managing the Threats and Benefits
of Emerging Technologies (TI)**

Moderator H. Vaughan Jones

Technical Officer S. Purvis, IAEA

Rapporteur H. Sears, IAEA

Speaker	Country/Organization	Title
G. Shaw	Australia	Director General, Australian Safeguards and Non-Proliferation Office
ZP. Li	China	Director General, State Nuclear Security Technology Centre
M. Goulart	European Commission Joint Research Centre (JRC)	Head of Unit
F. Mansoor	Pakistan	Chairman, Pakistan Nuclear Regulatory Authority
C. Hinderstein	United States of America	Acting Principal Deputy Administrator, National Nuclear Security Administration

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Technical Session 3.A

Conference Room M2

**Competence Building and Human
Resource Management for a Robust
Nuclear Security Workforce (CB)**

Chair M. Penny, Saint Kitts and Nevis
Technical Officer C. Martin Rodriguez, IAEA
Assistant TO H. Wang, Nuclear Security Delegation for the Future
Rapporteur G. Reyes, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Muzongomerwa	Zimbabwe	128	Role of Human Resources Capability in Sustaining Nuclear Security Detection Architecture in Zimbabwe
F. Jaya	Indonesia	302	Management of an Aging Workforce in the Nuclear Security Sector
A. Shakoor	Pakistan	346	Regulatory Competence Management for Nuclear Security
S. Peper	INTERPOL	450	Identification of Competencies for Law Enforcement Roles in Nuclear Security
H. Horne	Norway	515	Sustaining Human Resources in the Area of Prevention, Detection and Response to Nuclear and Other Radioactive Material Out of Regulatory Control (MORC)
J. Brosnan	Nuclear Threat Initiative (NTI)	663	Retaining a Diverse Nuclear Workforce for the Future

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Technical Session 3.B

Conference Room M3

A Continental Case Study: Lessons Learned in Regulation Development in the African Region (PLR)

Chair J. Chipuru, Zimbabwe
Technical Officer E. Kancsar, IAEA
Assistant TO M. Carew, Nuclear Security Delegation for the Future
Rapporteur L. Betancourt Hernandez, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
J. Mbwilo Mwimanzi	United Republic of Tanzania	32	Legislative and Regulatory Framework for Nuclear Security: A case study of Tanzania
R. Emmanuel	Uganda	180	Nuclear Security Regulations and Legislation in Uganda
D. Gathoni Mbugua	Kenya	338	Nuclear Security Policy: Case Study Perspectives on the Development and Implementation in Colombia, Kenya, and Nigeria
E. Ampomah-Amoako	Ghana	358	Interested Parties Involvement in Development of Nuclear Security Regulations in Ghana

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Technical Session 3.C

Conference Room M4

Secure from the Start: Issues in Supply Chain Security (TI)

Chair A. Keizer, Netherlands
Technical Officer S. Knight, IAEA
Assistant TO Z. Asulian, Nuclear Security Delegation for the Future
Rapporteur A. Konstantinov, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
O. Rest	Germany	192	Supply Chain Risks in Digital Communication Standards for Nuclear Safety and Security
S. N. Melekwe	United Kingdom	243	Enhancing Supply Chain Cyber Assurance in the Nuclear Sector: Findings from a Comprehensive Workshop Series
C. Glantz	United States of America	264	User-Friendly Software for Assessing the Maturity of Supply Chain Security and Secure Design and Development Programs for Hardware and Software at Nuclear Facilities
L. Isabel Valentino	Argentina	522	Argentine Supply Chain Verifications Strengthening Security

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Technical Session 3.D

Conference Room M5

**From Construction to Closure:
Approaches to Sustainable and Secure
Life Cycle Management and
Decommissioning Practices (TI)**

Chair W. Rother, Germany
Technical Officer B. Rini, IAEA
Assistant TO N. White, Nuclear Security Delegation for the Future
Rapporteur C. Deura, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
J. Conner	United States of America	123	Japan – U.S. Cooperation on Development of a High-Activity Solid Waste Measurement System During Decommissioning of Tokai Reprocessing Plant in Support of Nuclear Material Accounting and Control for Nuclear Security Purposes
B. Zaleski	United States of America	325	Update to NRC Decommissioning Activities Related to Nuclear Security
S. Proud	United Kingdom	356	How to Sleep Soundly Whilst Balancing Secure by Design and Operational Challenges
A. Barrault	France	589	Regulatory Aspects of Decommissioning: Case Study of Fessenheim NPP

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Technical Session 3.E

Board Room A

**Exploring the Practical Uses and
Potential Threats of Artificial Intelligence
(TI)**

Chair J. Galy, European Commission
Technical Officer K. Jenkins, IAEA
Assistant TO S. Lim, Nuclear Security Delegation for the Future
Rapporteur R. Olsen, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
H. Hassan	Egypt	165	Challenges and Controversies of Artificial Intelligence for Nuclear Security
M. Mahmoodvand	Islamic Republic of Iran	202	Introducing an Artificial Intelligence as a Service (AiaaS) Platform for Nuclear Security via Gamma Ray Monitoring Systems Data Analysis
E. Eifert	Austria	608	Addressing the Challenges of Insider Threats with AI
R. Rockabrand	United States of America	650	How Artificial Intelligence and Small Modular Reactors Will Shape the Future of Emergency Preparedness and Response
G. Puerta	Colombia	653	Design and Proposal of a Real-time Traceability and Authentication System, Based on Blockchain and Artificial Intelligence Techniques, for the Safe Transport of Radioactive Sources and Nuclear Material in Colombia

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Technical Session 3.F

Board Room B

The IAEA Can Help You: National Case Studies on IAEA Advisory Services and Assistance Missions (CC)

Chair B. Dearson Siwila, Zambia
Technical Officer T. Hack, IAEA
Assistant TO T. Mustafa, Nuclear Security Delegation for the Future
Rapporteur Z. Hassan, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
N. Bello	Nigeria	28	International Physical Protection Advisory Service (IPPAS) Mission: Nigeria Experience
M. Roumie	Lebanon	46	Holistic Approach Toward Sustainable and Effective Nuclear Security Regime in Lebanon
S. Ecevit	Türkiye	103	Türkiye's Experience on Development of Nuclear Security Regime
N. Nu Hoai Vi	Viet Nam	162	Vietnam's Experience with INSServ Mission
E. Kloboucek	Czech Republic	227	How the IPPAS Mission Contributed to Strengthening the Security System in the Czech Republic

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Technical Session 3.G

Conference Room M2

**Charting the Way Forward: Assessing
Current and Future Challenges on the
Implementation of the A/CPPNM (PLR)**

Chair H. Foy, Ghana
Technical Officer A.T. Dang, IAEA
Assistant TO W. Massiata, Nuclear Security Delegation for the Future
Rapporteur N. Zamaria, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S.C. Lackner	Vienna Center for Disarmament and Non-Proliferation (VCDNP)	112	Next Steps for the Second Conference of the Parties to the A/CPPNM
M. Reggi	United Nations Office on Drugs and Crime (UNODC)	308	The United Nations Office on Drugs and Crime (UNODC) Repository of National Legislation for Implementing the Criminalization Provisions of the International Convention for the Suppression of Acts of Nuclear Terrorism (ICSANT), the Convention for the Physical Protection of Nuclear Material (CPPNM) and its 2005 Amendment (ACPPNM)
J.Sablay	Philippines	465	Assessing Progress Towards Compliance on the Implementation of the A/CPPNM in the Philippine's Nuclear Security Regime for Nuclear Material and Nuclear Facilities Using the Oak Ridge Research National Laboratory (ORNL) Self-Assessment Tool
M. Man	United States of America	478	A Fictional Case Study with a Corresponding Legal and Regulatory Framework: Challenges and Good Practices in the Implementation CPPNM Amendment Article 5
P. Lindahl	Sweden	604	Preparing for the Second Review Conference On A/CPPNM – How to Evaluate the Adequacy of the Convention in Light of the then Prevailing Situation
M. Penny	Saint Kitts and Nevis	N/A	The Challenge of the Nuclear Security Culture in the SIDS

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Technical Session 3.H

Conference Room M3

**Digital Defense: Preparing for and
Defending Against Cyber Attacks (CC)**

Chair L. Mandard, France
Technical Officer M. Hewes, IAEA
Assistant TO A. Vipond, Nuclear Security Delegation for the Future
Rapporteur B. Jovanovski, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Zhurin	Russian Federation	195	Methods of Protection Against Modern, High-Tech Computer Attacks on Automated Systems of Nuclear Facilities
M. Ozbek	China	357	Enhancing Security and Cybersecurity of Nuclear Power Plants Based on Explainable AI
R. Adnan	Malaysia	417	Cyber-Attack on Nuclear Regulatory System Servers
K. Nam	Republic of Korea	541	Lessons Learned from KINAC Cyber Security Test-bed
R. Marques	Brazil	609	A Simulation Framework for Computer Security Assurance Activities
S. Lee	Republic of Korea	613	Severity of Vulnerabilities Resulting from PLC Misconfigurations and Developments

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Technical Session 3.I

Conference Room M4

**Beyond the Chalkboard: Modernizing
Nuclear Security Training (CB)**

Chair R. Paci, Albania
Technical Officer N. White, IAEA
Assistant TO M. Sorroza, Nuclear Security Delegation for the Future
Rapporteur Y. Shin, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Sekine-Abe	Japan	50	Development of Video Tutorials to Promote use of Information Management Tools Provided for the NSSC Network
Z. Homan	United Kingdom	556	How to Run Remote Virtual Mentoring for Nuclear Security Practitioners
A. Orders	United States of America	585	The Future is Today: Virtual and Augmented Reality in Security Response Training
L. Moutenot	France	611	Building Capability for Computer Security Assurance Activities Through International Cooperation
R. Busquim e Silva	IAEA	612	Simulator of Small Modular Reactor for Cyber Security Assessment
G. D'Arrigo	United States of America	636	Virtual Training Strategies and Lessons Learned for Nuclear Security

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14:00-15:30

Technical Session 3.J

Conference Room M5

**Is The Source Secure? Case Studies in
Radioactive Source Security (TI)**

Chair M. Kostor, Malaysia
Technical Officer L. Duval, IAEA
Assistant TO D. Mafie, Nuclear Security Delegation for the Future
Rapporteur K. Adame, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
G. Smith	United States of America	65	Cooperation Among United States Federal and State Agencies to Protect Radioactive Materials Through the Task Force on Radiation Source Protection and Security
O. Fichot	France	114	Break-in Delay Assessment: Using legacy to Shape the Future of High Activity Sources Security
N. Leonard	Uganda	211	Eliminating the Risk of High Activity Radioactive Sources by Preventing Adoption of Cs-137 Based Blood Irradiation: A Project to Provide X-Ray Based Blood Irradiation to the Joint Clinical Research Center in Kampala, Uganda
R. Bridges	United States of America	360	Radioactive Sealed Source Removal from a Guatemalan Hospital
L. Ben Omrane	Tunisia	430	Experience Sharing from Implementing the Alternative Technology in Radiotherapy in Tunisia: Challenges and Opportunities for Radiological Security
M. Hutama	Indonesia	499	Evaluating Physical Protection System for Radioactive Source at Universitas Gadjah Mada's Nuclear Engineering Department Using Stochastic Approach

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Technical Session 3.K

Board Room A

**Eyes on the Sky: Strategies to Mitigate
the Threats Posed by Uncrewed Aerial
Systems (TI)**

Chair E. Lemoine, Canada
Technical Officer C. Thompson, IAEA
Assistant TO M. Tougas-Cooke, Nuclear Security Delegation for the Future
Rapporteur B. Denehy, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
B. Maxwell	United States of America	64	Fully Autonomous, Unmanned Aircraft Systems and the Consequences for National Security
M. Gehrke	Germany	111	Systematic Analysis of Developments of IEMI-Tools with Potential Threats for Nuclear Security
L. Zhang	China	126	Regulation on Counter-Drone Security System at Nuclear Power Plants in China
M. Potter	United States of America	176	Challenges, Gaps, and Recommendations for Incursions from Uncrewed Aircraft Systems (UAS) at Critical Infrastructure
J. Václav	Slovakia	517	Nuclear Facilities Protection against UAVs

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Technical Session 3.L

Board Room B

**Potential Security Solutions for
Traditional and Emerging Reactor
Technologies (TI)**

Chair R. Gaucher, France
Technical Officer M. Mohamed, IAEA
Assistant TO S. Lim, Nuclear Security Delegation for the Future
Rapporteur Á. Acevedo, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Adu	Ghana	20	Small Modular Reactor (SMR) Deployment in Sub-Saharan Africa (SSA): Addressing Nuclear Security Threats
A. Arreola García	Mexico	84	Protecting Nuclear Power Plants from Social Engineering
T. Leach	United States of America	330	Security for Advanced Reactors
B. Purnomo	Indonesia	365	Floating Nuclear Power Plants Security: Potential Threats and Risks
K. Sallee	United States of America	447	Proliferation Resistance Integration for the Next Generation Research Reactors
A. Nilsson	Sweden	451	Facilitating Advanced Reactor Deployment through Effective Nuclear Security

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Technical Session 3.M

Conference Room M2

**Better Together: Experiences in
International Cooperation for Regulatory
Implementation (PLR)**

Chair N. Arame Faye, Senegal
Technical Officer V. Rouillet-Chatelus, IAEA
Assistant TO Z. Asulian, Nuclear Security Delegation for the Future
Rapporteur R. Pantani, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
B. Remy Wilson	Rwanda	85	Combined National Retreat with Remote Expert Assistance Approaches in the Development of Nuclear Security Regulations (A Successful Milestone in the RURA/ US-NRC Partnership)
N. Iftakhar	Pakistan	303	Pakistan's Experience for establishing and implementing nuclear security regime: Lessons learnt for Embarking Countries
R. Baychurin	Russian Federation	378	Russian View on Effective National Physical Protection Regime
H. Foy	Ghana	N/A	Strengthening Regional Cooperation for Enhanced Nuclear Security in Africa

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16:00-17:30

Technical Session 3.N

Conference Room M3

Assessing and Evaluating Physical Protection Systems in an Evolving Threat Landscape (TI)

Chair E. Gosset, France
Technical Officer N. Reguigui, IAEA
Assistant TO O. Van Geluwe, Nuclear Security Delegation for the Future
Rapporteur A. Perez Baez, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Keizer	Netherlands	83	Why Security KPs Make Sense and How to Develop Them
A. Wadoud	Egypt	150	Vulnerabilities Determination of the Physical Protection Elements & Risk Assessment Using SAVI, and Dai et al Models
T. Van der Velden	Australia	231	International Data Sharing for Modeling and Simulation of Physical Protection System Improvements
C. Pocratsky	United States of America	250	The U.S. Department of Energy's Use of Performance Testing to Evaluate the Effectiveness of Physical Security Systems
R. Rodger	United Kingdom	351	Deterrence: Evolving Threats and Approaches to Strengthen Nuclear Security
L. Mingwei	China	497	Theory and Practice of Effectiveness Evaluation of Physical Protection System for Nuclear Facilities in China

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16:00-17:30

Technical Session 3.O

Conference Room M4

**Education to Excel: Lessons Learned
from National Training Centres and
Institutes (CB)**

Chair S. Sihana, Indonesia
Technical Officer M. Labyntseva, IAEA
Assistant TO M. Carew, Nuclear Security Delegation for the Future
Rapporteur P. Rosol-Barrass, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
D. Gonzalez	Cuba	10	Training in Support of Enhances Nuclear Security of Radioactive Materials at CEADEN
N. Izmailova	Kazakhstan	94	Kazakhstan's Nuclear Security Training Center: International Cooperation Enhancing National and Regional Training Capabilities
S.K. Agrawal	India	178	GCNEP: India's Center of Excellence
E. Bologov	Russian Federation	239	Global Nuclear Safety and Security Institute (GNSSI) – Practice-Oriented Training of Russian and Foreign Students on Nuclear Security, Taking into Account an Integrated Approach to Security
M. Shahzad	Pakistan	405	Pakistan's Centre of Excellence in Nuclear Security: The Vehicle for Capacity Building and International Cooperation
N. White	IAEA	N/A	Training for a Secure Tomorrow: An Examination of NSNS Post Training Evaluation Results

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Technical Session 3.P

Conference Room M5

**Exploring Industry's Role in Supporting
and Advancing Nuclear Security (CC)**

Chair **B. Akbay, Türkiye**

Technical Officer **K. Kouts, IAEA**

Rapporteur **C. Willett, IAEA**

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Barrow	United Kingdom	690	Industry's Role in Enhancing Global Nuclear Security - A New Model
G. Christidis	Canada	N/A	A Look at the Canadian Nuclear Industry and Regulatory Environment
S. Perkins	United States	N/A	An Assessment of the Role of Industry in the USA
H. Yang	China	N/A	How Industry Contributes to Nuclear Security in China

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Technical Session 3.Q

Board Room A

**From Threats to Solutions: Assessing
and Mitigating Cybersecurity Risk (CC)**

Chair N. Howarth, Australia
Technical Officer R. Busquim E Silva, IAEA
Assistant TO M. Ozbek, Nuclear Security Delegation for the Future
Rapporteur S. Repanovici, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
R. Arians	Germany	174	I&C Systems Less Susceptible to Cyberattacks
C. Glantz	United States of America	263	Assessing the Maturity of Cybersecurity and Nuclear Security Programs at Nuclear Facilities
A. Kim	United States of America	323	Cybersecurity Considerations of Autonomy in Nuclear Facilities (Cybersecurity Licensing Activities)
C. Tertrais	France	549	Relevancy of Cyber Threats on Nuclear Transports: French Studies
E. Eifert	Austria	610	Developing Cyber Security Operations Centers (SOCs) for Nuclear Plant Operations
L. Pedrazzini	Italy	640	Cyber Assessments of Industrial Irradiators: Lessons Learned from the Field

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Technical Session 3.R

Board Room B

**Threats or Opportunities? Confronting
the Non-traditional Challenges Posed by
Emerging Technology (TI)**

Chair X. Guo, China
Technical Officer W. Schuck, IAEA
Assistant TO H. Wang, Nuclear Security Delegation for the Future
Rapporteur R. Olsen, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. M. Brown	United States of America	321	NRC Assessment on Emerging Technologies and Threats in Nuclear Security
L. E. Sinclair	Canada	469	Emerging Technologies and Methods in Wide-area search for Nuclear Materials
R. Alfariji	Indonesia	496	Digital Twin-Integrated Security System for Nuclear Reactor Facility with Predictive Learning Capabilities
H. Ping	China	545	Challenges and Response: China's Approach to Emerging Threats on Nuclear Security
F. Alhammadi	United Arab Emirates	573	Challenges and Benefits of Technologies Used for Nuclear Power Plants
A. Choren	World Nuclear Association (WNA)	583	Methods to Combat Dynamic Threat Vectors

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09:00-10:30

Plenary Session 4

Plenary

**Shaping the Future: Retaining and
Developing the Nuclear Security
Workforce of Tomorrow (CB)**

Moderator H. Vaughan Jones

Technical Officer I. Soufi, IAEA

Rapporteur H. Sears, IAEA

Speaker	Country/Organization	Title
C. Boix	Argentina	Nuclear Security Delegation for the Future
V. Derouet	France	Director at EDF Nuclear and Thermal Direction and President of the French Nuclear Security Center of Excellence
A. Goel	India	Director Amity University, Institute of Nuclear Science and Technology, India
L. van Dassen	World Institute for Nuclear Security (WINS)	Executive Director

THURSDAY, 23 May 2024

11:00-12:30

Technical Session 4.A

Conference Room M2

The Threat from Within: Addressing and Mitigating the Insider Threat (TI)

Chair S.K. Agrawal, India
Technical Officer F. Wong, IAEA
Assistant TO M. Fearon, Nuclear Security Delegation for the Future
Rapporteur B. Denehy, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
R. Agalga	Ghana	44	A Methodology to Assess Insider Threat Risk at Nuclear Facilities
J. Landers	United States of America	58	Advancing International Standards for Social Media Vetting in Nuclear Security: A Proposal for Mitigating Insider Threats
A. Sfetsos	Greece	89	A Model for Predictive Assessment of Insider Threats in Nuclear Facilities
C. Chen	China	269	Development of Personnel Reliability Evaluation System in Nuclear Facility
N. Uys	South Africa	297	Addressing Insider Threats in Transporting Radioactive Materials
P. Lindahl	Sweden	607	Development of an Empirical Model for Evaluating the Effectiveness of Measures to Deter Potential Antagonists from Engaging in a Malicious Act

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11:00-12:30

Technical Session 4.B

Conference Room M3

**Bits and Bytes: Computer Security
Considerations for Regulatory
Framework (PLR)**

Chair E. Eifert, Austria
Technical Officer T. Nelson, IAEA
Assistant TO M. Ozbek, Nuclear Security Delegation for the Future
Rapporteur C. Pilleux, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
C. Jung	Canada	105	An Overview of CNSC Cyber Security Inspections at High Nuclear Security Facilities
N. Agbemava	Ghana	240	Methods for Cybersecurity Risk Assessment in Nuclear Facilities: Adherence to Regulatory Requirements
L. Setianingsih	Indonesia	299	Computer Security Regulations for Nuclear Facilities Tailored for Indonesia Needs
T. Rivera	United States of America	331	NRC Regulatory Efforts for Cybersecurity of Advanced Reactors
G. White	United States of America	547	Optimizing Cybersecurity for other Radioactive Material Facilities
R. Tavares	Brazil	634	How Far Should We Go: Brazilian Experience on Developing a National Regulatory Framework for Computer Security of Nuclear Facilities

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11:00-12:30

Technical Session 4.C

Conference Room M4

**Radiation Detection Instruments for
Nuclear Security: Strategies for
Optimizing Performance (TI)**

Chair K. Peräjärvi, Finland
Technical Officer G. Nguyen, IAEA
Assistant TO A. Aliyu, Nuclear Security Delegation for the Future
Rapporteur K. Jenkins, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
N. Droughi	Libya	15	Current Status of Radiation Detection Instruments in Libya; Challenges and Prospects
H. Yücel	Türkiye	17	An Overview of Isotope Identification Algorithms used in Radionuclide Identification Devices based on Medium Energy Resolution Detectors: Detection of Radioactive/Nuclear Material and Radionuclide Categorization in Nuclear Security
G. Li	Canada	102	Advancing Isotope Identification Algorithms for Mid-Resolution Detectors
G. Harrison	Canada	142	Modelling Tools for Enhancing Nuclear Border Security
L. Lopez	France	188	Development of a Neutron Detector as an Array of Crystalline Organic Scintillators
P. Johns	United States of America	434	Am I Deploying Effective Detection Systems?
U. Liyanaarachchi	Sri Lanka	506	Importance and Development of a Centralized Alarm Assessment Capacity with a Central Alarm Station (CAS) Integrated Personal Radiation Detector Network

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11:00-12:30

Technical Session 4.D

Conference Room M5

**Preparing for the Future: Lessons
Learned and Developments in Nuclear
Security Event Response (TI)**

Chair C. Romao
Technical Officer F. Liu, IAEA
Assistant TO F. Saponara, Nuclear Security Delegation for the Future
Rapporteur J. Beardsley, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Cartaxo da Costa	Brazil	7	The Performance of the Brazilian Armed Forces in the Planning and Preparation of the Medical Response to Radiological and Nuclear Accidents
W. Bouclier	France	310	Support for the Nuclear Security Component in the IRSN Crisis Management Organization
J. Vogt	Germany	412	Integration of the Response to Nuclear Security Events into the German CBRN Response Capabilities at the Federal Level (UnterstützungsverBund CBRN)
J. Eisheh	Germany	424	Theft of Ni-63 and Pu-238: Lessons Learned from an Investigation
M. Ganea	Romania	642	The Development of Unmanned Ground Vehicle (Irene) for Response to Nuclear Security Events
Z. Myers	Canada	718	A Cross-disciplinary Approach to Capacity Building and Nuclear Security

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11:00-12:30

Technical Session 4.E

Board Room A

**Security - It's What We Do: Developing
and Maintaining a Robust Nuclear
Security Culture (CC)**

Chair A. Shakoor, Pakistan
Technical Officer N. Miyamoto, IAEA
Assistant TO A. Carvalho, Nuclear Security Delegation for the Future
Rapporteur I. Iarema, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
T. Van der Velden	Australia	230	An Australian Perspective on the Assessment of Nuclear Security Culture for a Research Reactor when Conducted as part of a Periodic Safety and Security Review (PSSR)
C. Speicher	Germany	234	A Differentiated and Targeted Model of Security Culture for Radioactive Sources
M. Wiśniewska	Poland	282	This First Self-Assessment of Nuclear Security Culture in the Polish Medical Facility that uses Radioactive Sources and Materials
M. Rashid	Malaysia	438	Assessment of Nuclear Security Culture in the Transportation of Radioactive Material at Malaysian Nuclear Agency
E. Gosset	France	598	Development and Evaluation of Security Culture in a Research and Development Organization

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11:00-12:30

Technical Session 4.F

Board Room B

**Securing our Future: Empowering and
Enabling the Next Generation of Nuclear
Security Professionals (CB)**

Chair HE J. Francisco Facetti, Paraguay
Technical Officer I. Walter, IAEA
Assistant TO M. Sorroza, Nuclear Security Delegation for the Future
Rapporteur R. Latha Mangalampalli, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
N. Inoue	Japan	31	Student Engagement Program in Nuclear Security at ISCN/JAEA
M. Gerlini	Italy	129	International Nuclear Security Education Network (INSEN): Building Capacity for Youths in Nuclear Security
F. Maher	OECD Nuclear Energy Agency	183	Perceptions of Gender Balance and Inclusivity by Female Students and Trainees in the Global Nuclear Sector
J. Valencia	United States of America	262	Capacity Building: Fostering the Next Generation of Nuclear Security Experts with an Eye on Diversity
M. Dilly	Uganda	514	The Youth Generation as a Key Ingredient to the Future of Nuclear Security in Uganda
E. Park	Republic of Korea	536	Enhancing Youth Engagement in Nuclear Security

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14:00-15:30

Flash Presentation Event 4.A

Board Room A

Capacity Building for Nuclear Security

Technical Officer

Q. Rose, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
B. Kejela	Ethiopia	110	The Nuclear Security Programmes Make Them More Robust and Inclusive by Establishing a Chain of Capacity-Building Mechanisms
P. Ruhukwa	Zimbabwe	115	Nurturing a Nuclear Knowledge Management Culture for Regulators in Developing African Countries to Enhance Nuclear Security Regime
Ş. Udum	Türkiye	116	Role of Education for Capacity Building and Stakeholder Cooperation in Nuclear Security
I. Sam Suraj	Ghana	242	Human Factors in Nuclear Security: Lessons from the Ghana Atomic Energy Commission
I. Haq	Pakistan	265	Sustaining the Nuclear Security Regime through the Establishment and Operation of National Nuclear Security Support Centres: Development and Implementation of IAEA-TDL-010 Methodology, Challenges and Lessons Learnt
M. Ekman	United States of America	292	Development of a Portable Field Deployable Physical Security System and Alarm Monitoring Station "In a Box" for Capacity Building Program Enhancement
J. Schwantes	United States of America	309	Outcomes from the 7th Collaborative Materials Exercise of the Nuclear Forensics International Technical Working Group
W. Stern	United States of America	400	Increasing Diversity in the Field of Radiological Security
B. Göktepe	Türkiye	631	Building Security Culture in Newcomers A Model Training Program Based on Risk Concern

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Flash Presentation Event 4.B

Conference Room M2

Cross-Cutting Nuclear Security Topics

Technical Officer

C. Pilleux, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Islam	Bangladesh	41	Advancing Nuclear Security Research: Methods and Tools
S. Marogulov	Russian Federation	225	Russian Approach of Nuclear Security and Nuclear Safety Interface
R. Hernández Alvarez	Cuba	300	Safety and Security Transport of Radioactive Materials in Latin-American region: Strategic aspects and current challenges
F. Hisham	Malaysia	374	Strengthening Nuclear Security Culture at Medical Facilities in Malaysia: The Second Wave
B. Rodrigues	Brazil	520	Security Culture and Cybersecurity in Nuclear and Radiological Facilities: A Systematic Literature Review
Q. Liu	China	554	Application of Data Center Technology in Digitalization of Nuclear Security
W. Msiska	Malawi	574	Integrating Nuclear Security Aspects into Security Agencies' Training Curriculum and National Strategic documents to foster Nuclear Security Culture in Malawi
P. Lynch	United States of America	674	Societal Culture Influence in Nuclear Security Culture: Understanding Societal Cultural Dynamics to Proactively Mitigate Security Risks
J. Ferrer	Argentina	711	Strengthening the Security Regime through Technical Cooperation on Sustainable development in Latin America and the Caribbean

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Flash Presentation Event 4.C

Conference Room M3

**Technology and Infrastructure for
Nuclear Security Prevention, Detection
and Response**

Technical Officer

C. Willett, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
D. García del Real Artero	Germany	34	Using Deep Learning and Sentinel-2 Satellite Images for the Detection of Nuclear Power Plants
G. Li	Canada	60	Active Interrogation Methods for Detection and Characterization of Nuclear Threats in Enclosed Structures: Challenges and Mitigation Schemes
A.S.I Bhuian	Bangladesh	81	Development and Evaluation of Risk-informed-graded Approaches to Ensure Safe and Secure Trade: Experiences of Chittagong Sea Port, Bangladesh
E. Goessa	Mozambique	99	Evaluation of the Probability and Impact of a Possible Malicious Attack on the Company Coral FLNG Platform using Cesium-137 Source: A Risk Classification Approach
A. Chaudhuri	Canada	122	Particle Production and Characterization for Nuclear Forensics Following a Radiological Dispersal Event
H. Mungpayaban	Thailand	204	Implementation of Nuclear Forensics in Thailand for Supporting Investigation of MORC
M. Mironov	Russian Federation	228	Mitigating Evolving Threats and Challenges to Physical Protection Systems
C. Potter	United States of America	229	Status and Considerations of Adoption of X-ray Technologies in Replacement of High-risk Radioactive Sources
Y. Hasan	Indonesia	290	Enhancing Physical Protection Measures for Floating Nuclear Power Plants
S. Snook	United Kingdom	513	Measuring Insider Risk and Assessing the Effectiveness of Personnel Security Defences

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Flash Presentation Event 4.D

Conference Room M4

**Technology and Infrastructure for
Nuclear Security Prevention, Detection
and Response**

Technical Officer C. Deura, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
R. Maurer	United States of America	311	Ground Truth Measurements and Forensic Analysis after an Explosive Dispersal of Radioactive Material
A. Haefner	United States of America	484	Next Generation Real-time 3D Radiation Mapping Technologies for Nuclear Security
A. Hahn	United States of America	527	Digital Twins in Nuclear Power: Cybersecurity Implications
Y. Yu	China	542	Research and Development of a Nuclear Radiation Tracking and Positioning Imaging System for Nuclear Security
C. Del Bene	Italy	552	Fast and Reliable Nuclear Threat Identification in Interdiction and Global Nuclear Security, Innovation Using Qualified Technology applied to Nuclear Safeguards to Analyze Special Nuclear Material
M. Curry	United States of America	597	Identifying, Developing and Promoting Best Practices in Nuclear Forensic Science: The Nuclear Forensics International Technical Working Group (ITWG)
H. Yang	Republic of Korea	617	Enhancing Security through Integrity Verification of Operating Systems Using Blockchain on Physical Protection System
G. Puerta	Colombia	657	Open Framework for the Evaluation of the Level of Maturity in Physical and Cyber Security Capacity for Facilities with Nuclear or other types Of Radioactive Material
M. Tchaou	Togo	671	Management of a Radiological Incident Involving an Orphan Source Discovered in a Container Returned to Port

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Flash Presentation Event 4.E

Conference Room M5

**Technology and Infrastructure for
Nuclear Security Prevention, Detection
and Response**

Technical Officer **M. Mohamed, IAEA**

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Reuanngoan	Thailand	232	Morphological Analysis for Nuclear Forensics Signatures using SEM/EDX
R.Kips	United States of America	276	NNFLs as National Security Tools
K. Belousov	Russian Federation	306	Practical Aspects of Nuclear Security for Nuclear Material in International Transport: Experience and Possible ways of Improving
N. Helal	Egypt	312	Radiation Detection Instruments Needed for Nuclear Security and some NORM Issues
R.Kips	United States of America	314	US-JAEA Nuclear Forensics Analysis to identify the origins and process history of UOCs
T. Leach	United States of America	327	NRC Overview of Security Training Programs for Nuclear Security
M. Guiso	United States of America	406	Identifying Threat Indicators and Countermeasures
J. Meneses	Brazil	446	Challenges and Innovation in Mobile Tracking of Radioactive Sources in Brazil: A Pioneering Experience in Security Implementation
R. Kips	United States of America	474	Nuclear Forensics Implementation in the North Africa Region
K.K. Kariyawasam	Sri Lanka	504	Understanding Radionuclide Identification Devices (RIDs) for Improving Nuclear Security Detection Performances in Field Conditions an Investigation on Background Radiation Levels and Environmental Factors
Y. Li	China	535	Intelligent Search and Location System for Nuclear and Radioactive Material out of Regulatory Control
J.Galy	European Commission	553	30 Years of Nuclear Forensic Science at the EC-Joint Research Centre -Lessons learned and path forward

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Flash Presentation Event 4.F

Conference Room M6

Policy, Law and Regulations for Nuclear Security

Technical Officer

M. Tremonte, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Abousoudah	Libya	40	Security Measures of Nuclear and Radioactive Material Handling Seaport of Tripoli
N. Kone	Mali	53	Security and Safety Aspects Implemented to the Temporary Deposit of Radioactive Waste (TDRW) in Mali by AMARAP
M. Fokou	Cameroon	79	Impact of International Cooperation Assistance in Enhancing National Regulatory Framework on the Security of Radioactive Materials in Cameroon
N. Endo	Japan	161	On-Site Inspections of Security Measures for High Activity Radioactive Materials in Japan: Lessons Learned from Radioactive Material Security Inspectors
C. Gamulani	Malawi	186	Challenges Faced in Preparation for Adherence to the Amendment to the Convention on the Physical Protection of Nuclear Material
E. Riyadi	Indonesia	344	Policy Proposal in Support of Nuclear Security Detection Architecture Program in Indonesia
A. Alhammami	United Arab Emirates	692	3S Regulatory Inspections – Radioactive Source

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16:00-17:30

Technical Session 4.G

Conference Room M2

**Shaping the Future Together:
International Cooperation in Training
and Capacity Building (CB)**

Chair R. Evans, WINS
Technical Officer Q. Rose, IAEA
Assistant TO C. Boix, Nuclear Security Delegation for the Future
Rapporteur Y. Shin, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
D. Macák	Slovakia	66	Enhancing Nuclear Security Through Continuous Education and International Collaboration
R. Maurer	United States of America	233	The Development of a Virtual Training Workshop on Nuclear Security Measures for Major Public Events during COVID
N. Kocsis	Hungary	284	Jointly Exercising a Covert Law Enforcement Nuclear Security Mission with Practitioners from Czechia, Hungary, and the United States
U. Khan	United Nations Office on Drugs and Crime (UNODC)	368	Prepare to be Boarded: Cooperatively Developing International Maritime Counter Nuclear Smuggling Capabilities
V. Derouet	France	423	French Nuclear Security Centre of Excellence for Nuclear Operators/French CoE: A Tool for Capacity Building for Nuclear Security
A. Zapata	Colombia	661	Capacity Building in Latin America and the Caribbean Through the Use of Regional Subject Matter Experts in Transport Security

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16:00-17:30

Technical Session 4.H

Conference Room M3

**Strengthening Regulatory Frameworks
for Radioactive Sources Throughout the
Life Cycle (PLR)**

Chair T. Edwards, Canada
Technical Officer K. Adame, IAEA
Assistant TO W. Martinez, Nuclear Security Delegation for the Future
Rapporteur A. Khamzayeva, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
J. Felix Beyala Ateba	Cameroon	63	Radioactive Sources Security Regulation Developed and Implemented in Cameroon
M. Hassyakirin Hasim	Malaysia	394	Experience in the Development of Procedures for the Assessment of the Borehole Disposal Project
P. Kjäll	Sweden	441	Development of A New International IEC Standard: Security of Medical Equipment Using High-Activity Radioactive Sources
C. McAllister	Stimson Centre	462	RadSecLexis: An Opensource Online Database and Tool for Radiological Source Security Frameworks
P. Bompere Lemo	Democratic Republic of the Congo	495	Challenge in the Control of Transboundary Movements of Portable and Mobile Sources in DRC
T. Warner	Jamaica	665	The Future of Nuclear Security in Jamaica's Regulatory Infrastructure: Opportunities and Challenges

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16:00-17:30

Technical Session 4.I

Conference Room M4

Step One: The Use of DBT and Threat Assessment to Know the Adversary (TI)

Chair B. Officer, United Kingdom
Technical Officer N. Delaunay, IAEA
Assistant TO M. Clarke, Nuclear Security Delegation for the Future
Rapporteur A. Perez Baez, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Vleugels	Netherlands	26	DBT Approach and Lessons Learned in The Netherlands
R. Tavares	Brazil	27	Action Plan for the Implementation of the DBT Process in Brazil
J. Clark	United States of America	322	Designing a Strategy (Threat/Target Sets/Denial/Defense in Depth)
P. Venema	URENCO	426	Cyber and Physical Security: Far Away, So Close
A. Shrivastava	WINS	429	Revolutionizing Threat analysis using New Media Technology
B. Brück	Germany	577	The German DBT – Challenges and Progress

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16:00-17:30

Technical Session 4.J

Conference Room M5

Managing and Mitigating Threats from Counterfeit, Fraudulent and Suspect Items (TI)

Chair J. Ramon Camarma, Spain
Technical Officer R. Olsen, IAEA
Assistant TO A. Vipond, Nuclear Security Delegation for the Future
Rapporteur C. Deura, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
Z. Naser	United Kingdom	6	Nuclear Security Implications of Counterfeit, Fraudulent and Suspect Items (CFSIs) Entering the Nuclear Supply Chain
D. Hossain	Bangladesh	55	Nuclear Security Risk Assessment of Counterfeit, Fraudulent, and Suspect Items (CFSI) Infiltration within Supply Chain: Bangladesh Perspective
A. Abdelaziz Arafa	Egypt	62	Security Risk Mitigation of Counterfeiting and Fraudulent Items within Nuclear Supply Chain
Y. Hasan	Indonesia	91	Review on Detection Framework for Mitigating CFSI Risk at Indonesian Nuclear Facilities
M. Cujic	Serbia	207	Security Challenges Due to the Appearance of Counterfeit, Fraudulent and Suspect Items in Procurement Process of the Nuclear Supply Chain

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16:00-17:30

Technical Session 4.K

Board Room A

**Exploring Successful Implementation
Strategies for Nuclear and Other
Radioactive Material Transport Security
(TI)**

Chair N. Bello, Nigeria

Technical Officer O. Kabore, IAEA

Assistant TO A. Aliyu, Nuclear Security Delegation for the Future

Rapporteur J. Chung, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
O. Gerber	Germany	38	Research for better Vulnerability Assessment Regarding Acts of Sabotage
A. Touarsi	Morocco	216	Dynamic Threat Assessment for Enhanced Nuclear Transport Security: A Collaborative AI-Based Approach
M.P Boyer	France	253	40 years of Monitoring the Transport of Nuclear Materials in France
S. Al Blooshi	United Arab Emirates	693	Compliance Assurance for Safe and Secure Transport of Radioactive Material Vehicles Licensing and Inspection
S. Reardon	United Kingdom	697	Nuclear Transport Security in Complex Environments

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16:00-17:30

Technical Session 4.L

Board Room B

**Exploring the Role of Civil Society in
Shaping the Future of Nuclear Security
Together (CC)**

Chair L. Rockwood, VCDNP
Technical Officer L. Aspinall, IAEA
Assistant TO TZ. Win, Nuclear Security Delegation for the Future
Rapporteur I. Iarema, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
J. Trajano	Singapore	24	The Role of Think Tanks and Universities in Enhancing Nuclear Security in Southeast Asia
N. Roth	Nuclear Threat Initiative (NTI)	619	2023 Nuclear Security Index: Falling Short in a Dangerous World
J. Bufford	Nuclear Threat Initiative (NTI)	620	Civil Society Contributions to Nuclear Security
I. Kirsten	Vienna Center for Disarmament and Non-proliferation (VCDNP)	701	The Role of Civil Society in Shaping a More Secure Future for All
C. Hobbs	United Kingdom	N/A	Civil Society's Role in Nuclear Security: Perspectives from King's College London

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09:00-10:30

Plenary Session 5.A

Plenary

**Looking Forward: The Evolving Role of
the IAEA**

Moderator H. Vaughan Jones

Technical Officer S. Knight, IAEA

Rapporteur H. Sears, IAEA

Speaker	Country	Title
E. Buglova	IAEA	Director, Division of Nuclear Security
T. Elliot	Jamaica	Senior Director, Radiation and Safety at the Hazardous Substances Regulatory Authority, Vice-Chairperson of the Global Nuclear Safety and Security Network (GNSSN) Steering Committee
Y. Usman Idris	Nigeria	Director General/CEO, Nigerian Nuclear Regulatory Authority
M. Koh	Republic of Korea	Vice President, Korea Institute of Nuclear Nonproliferation and Control (KINAC)

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10:45-12:15

TECHNICAL SESSION 5.A

Conference Room M2

**Building Resilience: Sustaining and
Enhancing National Nuclear Security
Detection Architectures (TI)**

Chair F. Ciampagna Molina, Argentina
Technical Officer J. Swarthout, IAEA
Assistant TO E. Lukawiecki, Nuclear Security Delegation for the Future
Rapporteur M. Tremonte IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
L. Ahmad Khalil	Jordan	298	Maintenance Management Capabilities through Collaborative Workshops
A. Ullah	Pakistan	315	Approach for Management and Sustainability of National Nuclear Detection Architecture
Z. Pavel	Russian Federation	355	Information Technologies and Digital Transformation of Customs Control Technologies for Fissile and Radioactive Materials
F. Ciampagna Molina	Argentina	366	Key factors for sustaining Nuclear Detection Architecture in Argentina: Roadmap for a Legitimate and Effective Architecture
R. Osaro Ugeghe	Nigeria	492	The Nigeria Police Force: Model for Nuclear Security Detection Architecture

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10:45-12:15

TECHNICAL SESSION 5.B

Conference Room M3

**Fortifying the Foundations: Implementing
Physical Protection Systems and
Measures (TI)**

Chair R. Agalga, Ghana
Technical Officer Z. Hassan, IAEA
Assistant TO M. Tougas-Cooke, Nuclear Security Delegation for the Future
Rapporteur T. Kasht, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
D. Bokov	Russian Federation	14	Basis for Graded Approach for Security Requirements
S. Şentürk Lüle	Türkiye	16	A Software Development for Physical Protection System Design and Analysis for Nuclear Security
A. Izmaylov	Russian Federation	76	Physical Protection Systems (PPS) Evaluation Methodologies and their Usage in PPS Design and Operation Processes
A. Eslam Salman	Egypt	279	Optimization of Surveillance Camera Site Locations and Viewing Angles for Improved Nuclear Security
X. Guo	China	486	Digital Radiography Vehicle Inspection System for Access Control System for Physical Protection of Nuclear Facilities

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10:45-12:15

TECHNICAL SESSION 5.C

Conference Room M4

**Sharing Successes and Lessons Learned
from National Training Initiatives (CB)**

Chair I. Chairam, Thailand
Technical Officer A. Khamzayeva, IAEA
Assistant TO Y. Rakhmatulla, Nuclear Security Delegation for the Future
Rapporteur E. Lee, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
C. Romão	Brazil	9	Off-Site Nuclear Security Responders: Workforce Management and Capabilities Building
T. Kobayashi	Japan	51	Development of ISCN/JAEA Training Field
F. Otoo	Ghana	117	Nuclear Security Training and Qualification Challenges: A Case Study for Technical Service Organization in Ghana
E. Mayaka	Kenya	124	Detection and Interdiction of Nuclear and Other Radioactive Materials for a Safer World
J.T. Harris	United States of America	131	Nuclear Security Capacity-Building: Adapting Criteria for Educational Programs and Activities
A. Kumar	India	710	Sensor Evaluation & Test Bed Facility (SETBF)

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10:45-12:15

TECHNICAL SESSION 5.D

Conference Room M5

Regulatory Frameworks Around the World: National Best Practices (PLR)

Chair T. Khai Nguyen, Viet Nam
Technical Officer Y. El Abbari, IAEA
Assistant TO A. Carvalho, Nuclear Security Delegation for the Future
Rapporteur P. Jerez Vegueria, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Ivanov	Russian Federation	52	Actions of the Regulatory Body on the Enhancement of the Sustainable Physical Protection Regime and Nuclear Security Culture through the Interaction with Operators
B. Tolawak	Ethiopia	212	Nuclear Security Status for High Category Sources and Legal Framework in Ethiopia
A. Kumar	India	377	The Legal and Regulatory Framework for Nuclear Security in India
N. Henri Joël	Cameroon	392	Strengthening the Regulatory Framework for Nuclear Security in Cameroon: Difficulties Encountered, Results and Prospects
J. Birungi	Uganda	560	Leveraging the Interface between Emergency Preparedness and Response and Nuclear Security to Enhance the Nuclear Security Regime in Uganda

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10:45-12:15

TECHNICAL SESSION 5.E

Board Room A

**From Commitments to Action:
Perspectives on Implementing Legal
Provisions for Nuclear Security (PLR)**

Chair C. Nwakanma, Nigeria
Technical Officer J. Herbach, IAEA
Assistant TO C. Vasiliu, Nuclear Security Delegation for the Future
Rapporteur N. Zamaria, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
F. Andrian	UNODC	313	Strengthening International Cooperation Through the International Convention for the Suppression of Acts of Nuclear Terrorism
K. Brill	United States of America	396	Shaping the Future: Building Needed Dynamism into the Nuclear Security Regime
Q. Chunhua	China	414	Analysis of Chinese Practice in Fulfilling International Nuclear Security Obligations
L. van Dassen	WINS	587	The NPT and Nuclear Security: Tracing and Strengthening an Important Relationship
T. Djurovic	Montenegro	652	National Legal Framework of Montenegro for Nuclear Security, Including Legally Binding and Non-Binding International Instruments

FRIDAY, 24 May 2024

10:45-12:15

TECHNICAL SESSION 5.F

Board Room B

**Let's Talk about Nuclear Security:
Considerations for Public Communication
(CC)**

Chair S. Boutaud de la Combe, IAEA
Technical Officer V. Tafili, IAEA
Assistant TO C. Boix, Nuclear Security Delegation for the Future
Rapporteur P. Rosol-Barrass, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Shiferaw Tiruneh	Ethiopia	266	Challenges and Opportunities in Maintaining Dependable Nuclear Communication Framework that Shape Future Collaborative Public Communication and Stakeholder Confidence-A case review of Ethiopia
R. Agustyah	Indonesia	391	Communicating Nuclear Security to Public through Risk Communication Concept
B. Mushtaq	Pakistan	411	Mechanism of Communication among Response Organizations and with the Public in case of Nuclear Security Events (NSEs)
S. Shaheen	United Kingdom	624	Humour & Nuclear Security Communications
M. Basnight	United States of America	649	Combating Information Disorder to Address a Nuclear Incident
V. Tafili	IAEA	N/A	Increasing Visibility and Awareness through Communication on Nuclear Security

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.G

Conference Room M2

Adapting to Adversity: Ensuring Nuclear Security in Complex and Challenging Environments (CC)

Chair A. Nilsson, Sweden
Technical Officer S. Repanovici, IAEA
Rapporteur P. Jerez Vegueria, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
M. Ariel Tapia	Argentina	403	Nuclear Security Activities during the COVID-19 Pandemic: The ARN's Experience
K. Tucker	NTI	525	Redefining the Cooperative Threat Reduction Model for Multilateral Nuclear Security
S. Noor	Belfer Centre	559	Proposing a Regional Nuclear Security Mechanism
N. Roth	Nuclear Threat Initiative (NTI)	580	Mitigating Insider Threats Posed by Domestic Violent Extremists
K. Brian	Uganda	638	Implementation of the Nuclear Security Systems and Security Measures During The COVID-19 Era.
B. Buddemeier	United States of America	702	Nuclear Training During a Global Conflict - Lessons learned

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.H

Conference Room M3

**Regulations for the Future: Adapting and
Implementing Regulatory Frameworks for
Materials and Facilities (PLR)**

Chair F. Al Bloushi, United Arab Emirates

Technical Officer L. Betancourt Hernandez, IAEA

Rapporteur N. Gerceker, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
A. Keizer	Netherlands	82	OK, we have a DBT. What's next? An operator's perspective
R. Duguay	Canada	140	Canadian efforts to Modernize the Nuclear Security Regulations and Regulatory Framework Moving towards a more performance-based approach to address evolving threats, Small Modular Reactors and Cybersecurity
B. Abdulmajid Bahai	Kingdom of Saudi Arabia	201	National Experience on the Implementation of the Regulatory Requirements of the Security of Radioactive Materials in Saudi Arabia
B. Zaleski	United States of America	326	A Novel Fitness for Duty Approach for Advanced Reactors
Z. Khalilov	Azerbaijan	481	Radioactive Source Safety and Security at Gamma Irradiation Facility in the Republic of Azerbaijan
A. Malabirade	France	571	Change Management: How to Deal With Sites Evolutions?

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.I

Conference Room M4

**Developing Approaches to Risk and
Threat Assessments for Robust Nuclear
Security (CC)**

Chair S. Quran, Jordan
Technical Officer A. Prosser, IAEA
Assistant TO M. Fearon, Nuclear Security Delegation for the Future
Rapporteur A. Perez Baez, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
S. Trelat	France	270	How can we Enhance Nuclear Security through an Innovative Methodology of Observation and Shock Wave Tracking in Harsh Environment?
E. Nikhanov	Kazakhstan	289	Risk Assessment in the Nuclear Security of Natural Uranium
M. Rowland	United States of America	332	Updates to, and Application of, IAEA-TDL-006 and ORS Best Practices for Cyber Assessments of Other Radioactive Material Sites
Y. Kimura	Japan	629	United States-Japan Joint Study on Material Attractiveness: Evaluating the Malicious Act Risks of Nuclear Material Theft

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.J

Conference Room M5

**Prepared to Respond: National Strategies
for Nuclear Security Events (TI)**

Chair P. Lardiez, Spain
Technical Officer J. Beardsley, IAEA
Assistant TO E. Lukawiecki, Nuclear Security Delegation for the Future
Rapporteur J. Parlange, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
I. Sambo	Nigeria	95	Design and Implementation of a National Framework for Managing Response to Nuclear Security Events in Nigeria – Challenges and Prospects
N. Deogratias Luwalira	Uganda	177	From Marginal to Mainstream: Uganda's Efforts in Integrating Nuclear Security into the Mainstream National Security Framework
V. Stebelkov	Russian Federation	261	IAEA Regional Exercises as a Mechanism of Increasing of National Capacity of Radiological Incidents Investigations
J. L. Paredes Gilisman	Cuba	439	National Framework for Managing the Response to Nuclear Security Events: Cuban Experience
M. Kostor	Malaysia	659	The Coordination of Response to Nuclear Security Events: Malaysia Experience

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.K

Conference Room M6

**Leveraging Interactive Methods for
Enhancing Nuclear Security Capacity
Building (CB)**

Chair N. Inoue, Japan
Technical Officer K. Hironaka, IAEA
Assistant TO W. Massiata, Nuclear Security Delegation for the Future
Rapporteur B. Denehy, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
B. Zong	China	104	Storm Series Nuclear Security Exercise Introduction and Lessons Learned
A. Viplak	Hungary	190	The Road to the First Force-on-Force exercise in Hungary
I. Gisca	Moldova	287	Office of Radiological Security's High Risk Response Workshop Pilot with the Republic of Moldova
C. Rosales-Cooper	United States of America	324	HAB-Drill Lessons Inform EP for Security Program Effectiveness
E. Gericke	Germany	413	German Federal Crime Scene Exercise in May 2023
H. Schoech	France	654	Maintaining and Enhancing Nuclear Forensics Capacities

FRIDAY, 24 May 2024

13:00-14:30

TECHNICAL SESSION 5.L

Conference Room M7

From Theory to Practice: Insights and Innovations in Nuclear Security Education (CB)

Chair A. Sadiq Aliyu, Nigeria

Technical Officer B. Njinembo, IAEA

Rapporteur P. Ngongang, IAEA

Speaker	Designating Member State/ Organization	Paper No.	Title
P. Zahnle	United States of America	132	Capacity Building Partnerships in International Nuclear Security - Teaching Modeling and Simulation Strategies for the Future
A. Williams	United States of America	367	The Graduate Nuclear Security Program at the Kyiv Polytechnic Institute: Status Update, Insights & Next Steps
W. A. Metwally	United States of America	395	INSEN: Shaping the Future of Nuclear Security Education
I. Abdul Rahman	Malaysia	498	Adopting Novel Educational Offerings (NEOs) as a Means of Ensuring Sustainability of Nuclear Security Educational Programmes in Malaysia
S.Sihana	Indonesia	576	Assessing Impact and Sustainability of Nuclear Security Education Program at Universitas Gadjah Mada, Indonesia

FRIDAY, 24 May 2024

14:30-15:00

Plenary Session 5.B

Plenary

Closing Plenary

Name	Country/Organization	Title
Nuclear Security Delegation for the Future		Joint Statement
HE Ian Biggs Ambassador and Permanent Representative Co-President	Australia	Remarks
HE Mukhtar Tileuberdi Ambassador and Permanent Representative Co-President	Kazakhstan	Remarks
Rafael Mariano Grossi Director General	IAEA	Closing Remarks

SCHEDULE OF SIDE EVENTS

TUESDAY, 21 May 2024

Shaping the Future of Nuclear Security by Achieving Gender Equality

Organized by Australia and Kazakhstan

Tuesday, 21 May 2024, 13.15 – 14.15

Board Room A, M Building, Second Floor

This event will aim to provide practical insights and actionable guidance to promote gender equality, women's empowerment and leadership as positive drivers to shape the future of nuclear security.

Uncrewed Aerial Systems (UAS) Emerging Technology and Capabilities as relates to Nuclear Security

Organized by the United States, Canada, the Republic of Korea, and the United Kingdom

Tuesday, 21 May 2024, 13.15 – 14.15

ESPACE, M Building, First Floor

The United States, Canada, the Republic of Korea, and the United Kingdom discuss the growth in popularity of UAS as a versatile business tool, national security asset, and popular recreational hobby. Due to the increased use of UAS, nuclear security threats associated with these devices may continue to evolve over the coming years. As a result, evolving UAS capabilities and technologies will need to be continuously monitored for threats, vulnerabilities, and consequences to ensure adequate mitigation strategies are developed.

Enhancement of Nuclear Safety and Security in Latin America: Removal of High-Activity Disused Sealed Radioactive Sources

Organized by Canada

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M2, M Building, First Floor

This side event will highlight the experiences from several countries in Latin America that participated in a regional IAEA project to remove disused sealed radioactive sources (DSRSs), outlining the steps involved, describing the reasons why they participated in the project, and summarizing the benefits that came from their engagement. Panellists will share their experiences in the project, including challenges faced and solutions developed. The objectives for this discussion are to, first, raise awareness of the project's objectives and results and, second, to highlight practical assistance that can be provided by the IAEA to support countries who are in possession of DSRSs and are committed to their safe and secure use, storage and removal.

Shaping the Future of Nigeria's Nuclear Security Regime: The Impact on Nigeria and other Member States of Collaborating with the Border Monitoring Working Group

Organized by the European Commission and Border Monitoring Working Group (BMWG)

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M3, M Building, First floor

The BMWG strives for comprehensive assistance to partner countries through integrated planning and coordinated equipment deployment. Since its establishment, the BMWG has proven to not only be an effective tool for avoiding duplication and maximizing and targeting resources, but also a forum to address common technical concerns and jointly develop capacity building tools. During this side event, Nigeria, a select partner country, will be the focus, reporting its successful experience with collaborating on these nuclear security projects.

Strengthening Global Nuclear Security through Universal and Full Implementation of the CPPNM and its Amendment

Organized by the International Atomic Energy Agency (IAEA)

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M4, M Building, First Floor

This side event will highlight the importance of the CPPNM and its Amendment in establishing a robust global legal framework which enhances national, regional and international nuclear security.

Know Your Insiders: The Way Ahead for International Cooperation on Insider Threat Mitigation

Organized by Belgium and the United States

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M5, M Building, Ground Floor

This side event will review outcomes of the Insider Threat Mitigation Symposium in March 2024, showcase the advancements made by the Insider Threat Mitigation (INFCIRC 908) Working Group, describe the Working Group's next steps and how interested Member States can be involved.

Building and Sustaining a Community of Practice: Overview and Experience of Members of the International Network for Nuclear Security Training and Support Centres

Organized by the International Network for Nuclear Security Training and Support Centres (NSSC Network)

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M6, M Building, Ground Floor

Panellists from Member States will discuss and share their perspectives on building this community of practice, while highlighting the areas and themes of nuclear security which are supported by the core functions of the NSSC Network. Panellists will also discuss how the activities of the NSSC Network Working Groups ensure the success of this community of practice.

Prosecution and Adjudication of Radiological and Nuclear Crimes

Organized by the European Commission and the United Nations Interregional Crime and Justice Research Institute (UNICRI)

Tuesday, 21 May 2024, 13.15 – 14.15

Conference Room M7, M Building, Ground Floor

The side event will showcase the Prosecutor's Guide to Radiological and Nuclear Crimes and its corresponding capacity building and training package, highlighting the steps in the practical implementation of its operationalisation. It will focus on the complementarity of this initiative with the IAEA's existing publications and capacity building packages.

Advanced & Small Modular Reactors: How Can We Succeed in Both Energy Security and Nuclear Security?

Organized by the United Kingdom

Tuesday, 21 May 2024, 16.15 – 17.15

Board Room A, M Building, Second Floor

This side event will facilitate discussion with IAEA Member States, academics and nuclear industry vendors to consider a variety of perspectives on the associated risks and opportunities of Advanced and Small Modular Reactors.

Development of Nuclear Forensics as one of the Key Elements in Nuclear Security Architecture in Kazakhstan

Organized by Kazakhstan

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M2, M Building, Ground Floor

At this side event, Kazakhstan will share its experience in developing and maintaining nuclear forensics capabilities to ensure nuclear security. The presentation and follow-on discussion will highlight the importance and relevance of developing nuclear forensics capabilities in a State's overall nuclear security infrastructure.

U.S. Security Support for IAEA's Atoms4NetZero Initiative

Organized by the United States

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M3, M Building, First Floor

In November 2022, IAEA DG Grossi launched the "Atoms4NetZero" initiative, which aims to harness the power of nuclear energy to achieve net zero carbon emissions and energy security. This side event will highlight U.S. government and industry resources available to support the responsible global expansion of nuclear power programs consistent with the Atoms4NetZero Initiative, with an emphasis on early consideration of security and capacity building. This event will include the U.S. National Nuclear Security Administration, U.S. Department of State, and U.S. Nuclear Regulatory Commission.

Needs Assessment Comes First: the IAEA's Optimized Approach to Strengthening Nuclear Security

Organized by the International Atomic Energy Agency (IAEA)

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M4, M Building, Ground Floor

The IAEA's optimized approach to strengthening nuclear security is based on a needs assessment in Member States, supported by the Integrated Nuclear Security Sustainability Plan (INSSP) framework and process, along with the nuclear security peer review and advisory services. During the side event through engaging role plays, participants will delve into real-world scenarios: crafting national roadmaps based on thorough needs assessments, facilitating fundraising, enhancing national and international coordination, optimizing resource utilization, and enabling progress tracking.

EU-IAEA Cooperation for Global Nuclear Security

Organized by the European Union

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M5, M Building, Ground Floor

The side-event is taking place on the occasion of the launch of the new EU cycle of support to IAEA nuclear security activities for the period 2024-2027. It will be an opportunity to showcase examples of key nuclear security projects supported by the EU, to highlight their concrete results, as well as to introduce the new cycle of support. Broader information including EU-IAEA nuclear security cooperation, at technical level, involving the Joint Research Centre will also be provided.

Introducing INTERPOL's Radiological and Nuclear Terrorism Threat Assessment Methodologies: Forecasting a Terrorist Attack for Nuclear Security

Organized by INTERPOL

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M6, M Building, Ground Floor

This side event will outline INTERPOL's efforts in supporting countries to undertake terrorism threat and risk assessments specifically involving radiological and nuclear material and how its efforts improve nuclear security at national, regional, and international level.

Alternatives to High Activity Sealed Sources

Organized by France, Germany and the United States

Tuesday, 21 May 2024, 16.15 – 17.15

Conference Room M7, M Building, Ground Floor

An effective risk reduction measure is not to possess or use highly radioactive sources. To do so while meeting the end-user needs, alternatives should be available so that an informed decision is made. The Ad-hoc group on alternative technologies is a forum where success in transitioning can be shared, but also to recognize existing challenges and pushing for addressing them. The side event, co-sponsored by Germany and the United States, will present key achievements of the group as well as areas for further work. Panellists will share their experience in transitioning and key factors for success as well as areas where further improvements are needed.

INSServ as a Tool to Enhance and Sustain Nuclear Security for Materials Out of Regulatory Control

Organized by the International Atomic Energy Agency (IAEA)

Tuesday, 21 May 2024, 16.15 – 17.15

ICONS Space, M Building, Ground Floor

The side event will feature a panel discussion on the International Nuclear Security Advisory Service (INSServ) as part of the IAEA assistance to Member States to enhance and maintain nuclear security for materials outside of regulatory control. Keynote speakers will share their experiences with INSServ missions with the aim to raise awareness about the importance of INSServ and to encourage countries' requests for such missions.

Shaping the Future: Networking Event for the Next Generation of Nuclear Security Professionals

Organized by the World Institute for Nuclear Security (WINS) and United Nations Nuclear Young Generation (UN-NYG) with the support of the U.S. Department of Energy, National Nuclear Security Administration

Tuesday, 21 May 2024, 16.15 – 17.15

Mozart Room, Restaurant, F Building

The networking event will focus on empowering young professionals in nuclear security, highlighting the importance of their engagement in shaping the future of the nuclear security sector. Through discussions and insights shared from past activities conducted by WINS, including regional roundtables and international webinars, participants will learn from diverse perspectives on actions to overcome challenges and create opportunities to facilitate the inclusion of the next generation in the sector. Participants will be provided an opportunity to network, learn about career paths in nuclear security, and discover resources offered by WINS to support young professionals in their journey towards contributing to the sustainability and effectiveness of nuclear security worldwide.

Wednesday, 22 May 2024

Reducing Risk by Physical Protection Upgrades of Facilities Handling Nuclear Material or Other Radioactive Material

Organized by the International Atomic Energy Agency (IAEA)

Wednesday, 22 May 2024, 08.00 – 09.00

Conference Room M4, M Building, Ground Floor

This side event will present examples of IAEA assistance activities related to physical protection upgrades of facilities handling nuclear or other radioactive material. The event will include some case studies and information from recently completed physical protection upgrades in Member States.

The Nuclear Security Fund: Putting the Nuclear Security Programme into Action

Organized by the International Atomic Energy Agency (IAEA)

Wednesday, 22 May 2024, 08.00 – 09.00

Mozart Room, Restaurant, F Building

This side event will raise awareness of the invaluable contributions Member States make to the Nuclear Security programme through the Nuclear Security Fund, a voluntary funding mechanism established in 2002. During the event, Member States will share their experiences and insights, providing valuable perspectives on their roles as donors in supporting international nuclear security.

The Next Generation of Nuclear Security Professionals: How Gender Equality, Diversity, and Inclusion is Shaping the Future

Organized by the World Institute for Nuclear Security (WINS)

Wednesday, 22 May 2024, 12.45 – 13.45

Board Room A, M Building, Second Floor

The next generation of nuclear security professionals are not simply defined by age, they will be defined by the diversity of their backgrounds, genders and disciplines. To truly shape our future, the field of nuclear security must be ready for evolving threats, new risks and the benefits and consequences of new technologies. To shape the future, we must reframe what a nuclear security professional looks like, the knowledge they have gained and what they understand.

Nuclear Security in Australia: A Collaborative Approach to ‘Shape our Future’

Organized by Australia

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M2, M Building, First Floor

Australia's nuclear-focused agencies all share a deep dedication to nuclear security. We invite you to hear from experts from these nuclear agencies as they share insights into our national collaborative approaches, our engagement within the Asia Pacific, and our aspirations for the future of nuclear security.

Preparing for and Responding to Nuclear Security Threats in Armed Conflict

Organized by the United States

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M3, M Building, First Floor

This side event will showcase international efforts to counter and respond to increased nuclear security threats arising from armed conflict and identify lessons learned for emergency preparedness and response to unique challenges beyond the Design Basis Threat. Speakers will highlight activities to strengthen prevention, detection, and response capabilities and explore how lessons learned from recent experiences can preserve nuclear security norms and enhance nuclear security architectures.

How Nuclear Regulatory Infrastructure Development has Strengthened Safety and Security: Case studies from Africa

Organized by Canada

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M4, M Building, Ground Floor

This side event will feature IAEA Member States in Africa who benefited from Regulatory Infrastructure Development Project (RIDP) activities, training and events. The RIDP is an IAEA technical assistance mechanism aimed to support national authorities to establish or to enhance the national regulatory infrastructure for radiation safety and for security of radioactive material. This comprehensive assistance is provided in the overall context of promoting sustainable socio-economic

development, while supporting States in creating an enabling environment for the safe, secure and peaceful application of nuclear technology.

Defence in Depth for Nuclear Security: Perspectives from the UK Home Office, Homeland Security Group

Organized by the United Kingdom

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M5, M Building, Ground Floor

This side event will share the UK's approach and expertise to delivering a defence-in-depth model based around the prevention of malicious acts using radiological or nuclear materials and encourage an exchange of views on the best approaches to nuclear security.

From Crime Scene to Courtroom: Putting the International Convention for the Suppression of Acts of Nuclear Terrorism (ICSANT) into Practice

Organized by the United Nations Office on Drugs and Crime (UNODC) in cooperation with Canada and the European Union

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M6, M Building, Ground Floor

Through two interactive activities, the side event will increase awareness on the importance of adhering to and effectively implementing the International Convention for the Suppression of Acts of Nuclear Terrorism (ICSANT).

Gender Equality in Nuclear Security: Achievements and Challenges

Organized by the Women in Nuclear Security Initiative (WINSI) & Women in Nuclear IAEA (WIN IAEA)

Wednesday, 22 May 2024, 12.45 – 13.45

Conference Room M7, M Building, Ground floor

This side event will host a panel discussion among Member States' Ambassadors to share their experiences in advancing gender equality and diversity in nuclear security and the challenges involved.

Demonstration of Software and Mobile Applications Supporting Nuclear Security Operations

Organized by the International Atomic Energy Agency (IAEA)

Wednesday, 22 May 2024, 12.45 – 13.45

ICONS Space, M Building, Ground Floor

This event will present tools developed by the IAEA to assist countries in conducting nuclear security field operations and in making decisions in the case of nuclear security events. The event will also include a hands-on demonstration.

Thursday, 23 May 2024

Missing or Stolen? The Incident and Trafficking Database (ITDB) has the Info

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 08.00 – 09.00

ICONS Space, M Building, Ground Floor

This side event will present key data and figures about the ITDB, and will host a discussion among Member States about their national experiences as participating States to ITDB.

Closing the Gap: High Level Engagement on Nuclear Security

Organized by the Vienna Center for Disarmament and Non-proliferation (VCDNP)

Thursday, 23 May 2024, 12.45 – 13.45

Board Room A, M Building, Second floor

In this event, VCDNP will convene an informal fireside chat between high-level officials from around the world regarding lessons learned and challenges in building global engagement in nuclear security, with a particular focus on the universalisation of legal instruments for nuclear security. The event will highlight the results of a VCDNP workshop for high level officials and parliamentarians convened in April 2024 on universalization of legal instruments for nuclear security.

Nuclear Security Prevention, Detection & Response by WiN IAEA Young Talent

Organized by Women in Nuclear IAEA (WiN IAEA) Young Talent

Thursday, 23 May 2024, 12.45 – 13.45

ESPACE, M Building, First Floor

This side event will showcase the importance of young technical talent within the IAEA's Division of Nuclear Security and their contribution to the implementation of the IAEA's nuclear security programme.

Planning for Change: Security Beyond Traditional Transportation of Nuclear Materials

Organized by the United Kingdom and the United States

Thursday, 23 May 2024, 12.45 – 13.45

Conference Room M2, M Building, First Floor

With an interest in nuclear power globally, this side event will explore how taking actions now can help to prepare for the future and ensure that transport security continues to be robust and meets the needs of the 21st century.

The Future of Research Reactors: Design, Deployment & Uranium Supply

Organized by the United States

Thursday, 23 May 2024, 12.45 – 13.45

Conference Room M3, M Building, First Floor

This side event will include a panel discussion on milestones to design, construct and operate new research reactors, incorporation of proliferation resistance into new facilities, supply of HALEU for existing and future research reactors, efforts to qualify new high power HALEU fuels for the next generation of research reactors and tools for disposition options of spent fuel. All of these aspects of "next-generation" research reactor builds will impact nuclear security at those facilities.

Nuclear Security Training and Demonstration Centre: Results and Lessons Learned from the First Months of Operation

Organized by the International Atomic Energy Agency

Thursday, 23 May 2024, 12.45 – 13.45

Conference Room M4, M Building, First Floor

The side event will discuss the experiences in establishing and initiating the IAEA's Nuclear Security Training and Demonstration Centre (NSTDC), while also presenting the initial results from the first months of operation. The side event will be followed by a visit to the NSTDC (advance registration is required).

Visit to the Nuclear Security Training and Demonstration Centre (NSTDC)

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 13.45 – 17.00

NSTDC at the IAEA Laboratories in Seibersdorf

A visit to the NSTDC at the IAEA Laboratories in Seibersdorf will be offered from 13.45 to 17.00. Advance registration is required by sending an email to NSTDC@iaea.org by Monday, 20 May 2024. In your email, please state your first and family name, affiliation, delegation, e-mail address and telephone number. The assembly point is the Information Desk at the entrance to the M building where registered participants will be picked up at 13.45.

Nuclear Security in Times of Crisis

Organized by the Nuclear Threat Initiative

Thursday, 23 May 2024, 12.45 – 13.45

Conference Room M5, M Building, Ground Floor

Based on the Nuclear Threat Initiative's recent project on nuclear facilities in times of crisis, this side event will feature operational, regulatory, normative, legal, and institutional recommendations focused on reducing risks at civilian nuclear facilities. This will include recommendations for policies governments can develop to discourage attacks on civilian nuclear facilities; regulatory requirements that could strengthen crisis resilience at nuclear facilities; and the role of nuclear security-focused international organizations during crises.

Forensic Analysis Plans: Interface between Crime Scene Investigators and Nuclear Forensics Laboratories

Organized by the Nuclear Forensics International Technical Working Group (ITWG)

Thursday, 23 May 2024, 12.45 – 13.45

Conference Room M6, M Building, Ground Floor

This event will include a mini-tabletop exercise where participants play through a nuclear smuggling scenario considering law enforcement, analytical laboratory, and nuclear security elements during a simulated investigation.

Outcomes of the Coordinated Research Project: Enhancing Computer Security for Radiation Detection Systems

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 12.45 – 13.45

ICONS Space, M Building, Ground Floor

This side event will present results of the Coordinated Research Project on Enhancing Computer Security for Radiation Detection Systems, which includes techniques to improve computer security of radiation detection equipment, associated computer-based systems, data communications protocols and network infrastructure.

Visit to the Nuclear Security Detection and Monitoring Equipment Laboratory

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 12.45 – 13.45

Information Desk, M Building, Ground Floor

The visit will explore assistance offered to Member States to improve nuclear security detection, while providing information about handheld radiation detection instruments. It will also demonstrate support given to implement nuclear security measures during major public events. Advance registration is required by emailing T.Pelletier@iaea.org by 17 May at noon. In your email, please state your first and family name, affiliation, delegation, e-mail address and telephone number. The assembly point is the Information Desk at the entrance to the M building where registered participants will be picked up at 12.45.

The Future of Civil Society in Advancing Nuclear Security Culture

Organized by the Stimson Center

Thursday, 23 May 2024, 17.45 – 18.45

Board Room A, M Building, Second Floor

This event will include a panel of civil society experts in nuclear security and representing different parts of the world. The panel will reflect on the 2023 edition of the Catalogue of Civil Society Activities Strengthening Nuclear Security compiled by the Stimson Center's International Nuclear Security Forum, discuss the important roles civil society has played in supporting the development of nuclear security culture to date, and assess opportunities and challenges for civil society to advance and strengthen nuclear security culture amid a potential expansion of nuclear energy solutions, new technologies, and emerging threats.

Security of Small Modular Reactors

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 17.45 – 18.45

Conference Room M2, M Building, Ground Floor

This side event will cover work to date associated with the security of small modular reactors (SMRs), including previewing the forthcoming TECDOC and the upcoming International Conference on Small Modular Reactors and their Applications. The event will include polling to crowdsource data which will be used to inform the IAEA'S SMRs nuclear security strategy development.

Exercising the Value of National Nuclear Forensics Libraries

Organized by the United States and Germany

Thursday, 23 May 2024, 17.45 – 18.45

Conference Room M3, M Building, First Floor

This side event will interactively demonstrate the power of national nuclear forensics libraries (NNFLs) as "tools of the future" for governments to investigate radioactive and nuclear (R/N) material outside of regulatory control. The event will feature presentations by U.S. and German experts about a "communications exercise" in which Germany queried the U.S. NNFL to learn valuable new information about highly radioactive Cobalt-60 sources discovered in scrap metal shipments. Participants will learn how to compose and submit their own NNFL queries, which could help them solve trafficking cases, close security gaps, and improve R/N safety practices in their home countries and around the world.

Five Years of Outcome Focused Nuclear Security Regulation: Lessons Identified and the Future

Organized by the United Kingdom

Thursday, 23 May 2024, 17.45 – 18.45

Conference Room M4, M Building, Ground floor

The United Kingdom was the first regulator to adopt an outcome focused approach to nuclear security regulation. This side event is a critical review of the introduction and deployment of outcome focused nuclear security regulation and provides an overview of what has been successful and areas for further development.

Educating the Next Generation of Nuclear Security Professionals to Meet Future Global Demands

International Nuclear Security Education Network (INSEN)

Thursday, 23 May 2024, 17.45 – 18.45

Conference Room M5, M Building, Ground Floor

This side event will include panellists from the IAEA and Member States and will discuss and share perspectives on the role of education and the International Nuclear Security Education Network (INSEN) in building capacity in nuclear security.

Secure4Med: Addressing Nuclear Security and Physical Protection of Radioactive Materials in Medical Facilities

Organized by Italy

Thursday, 23 May 2024, 17.45 – 18.45

Conference Room M6, M Building, Ground Floor

This side event will include experts from Technical Support Organizations, medical facilities, hospitals, regulatory bodies, research centres and academia, who will discuss the need for raising awareness on nuclear security in the medical sector. During the side event, the potential use and benefits of emerging technologies for medical professionals and technicians will also be addressed.

Launch of the New Nuclear Security Information (NUSEC) Portal

Organized by the International Atomic Energy Agency (IAEA)

Thursday, 23 May 2024, 17.45 – 18.45

ICONS Space, M Building, Ground Floor

This side event will serve as the official launch of the re-designed NUSEC portal, a platform promoting international cooperation, awareness, communication and information sharing among nuclear security community.

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

Publication Type	Title
IAEA-TDL-010	Establishing and Operating a National Nuclear Security Support Centre
NONSERIAL(STI/PUB/1886)	The Gate to Africa Exercise Programme: Morocco–Spain Joint Tabletop and Field Exercises on Maritime Security of Radioactive Material in Transport
IAEA-TECDOC-1896	Nuclear Forensics: Beyond the Science
PROCEEDINGS	Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security
TECHNICAL REPORT SERIES No. 1000	The Nuclear Safety and Nuclear Security Interface: Approaches and National Experiences
TECHNICAL REPORT SERIES No. 1001	Managing the Interface between Safety and Security for Normal Commercial Shipments of Radioactive Material
GLOSSARY	IAEA Nuclear Safety and Security Glossary
IAEA-TDL-011	Computer Security Approaches to Reduce Cyber Risks in the Nuclear Supply Chain
PROCEEDINGS	Effective Nuclear and Radiation Regulatory Systems
TECHNICAL REPORT SERIES No. 1002	Notification, Authorization, Inspection and Enforcement for the Safety and Security of Radiation Sources
SERVICES	Advisory Mission on Regulatory Infrastructure for Radiation Safety and Nuclear Security
IAEA-TECDOC-2019	Establishing a Nuclear Forensic Capability: Application of Analytical Techniques
PROCEEDINGS	International Conference on Nuclear Security: Sustaining and Strengthening Efforts
TECHNICAL REPORT SERIES N.491	Member States' Experiences and Insights from Maintaining Safety, Security and Reliable Nuclear Industry Operations During the Covid-19 Pandemic
SERVICES	Guidelines for the ITDB States' Points of Contact
IAEA-TECDOC-2033	Development and Management of Regulatory Oversight for Operation of a First Nuclear Power Plant

PARTICIPATION IN IAEA SCIENTIFIC CONFERENCES

Governments of Member States and those organizations whose activities are relevant to the Conference subject matter are invited to designate participants. 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.

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

PUBLICATIONS

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

Fax : (+43 1) 2600-29302

Email : sales.publications@iaea.org

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

FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

International Symposium on Food Safety and Quality Assurance (CN-322)
27 – 31 May 2024, Vienna, Austria

International Conference on the Management of Spent Fuel from Nuclear Power Reactors (CN-323)
10 – 14 June 2024, Vienna, Austria

International Conference on Nuclear Knowledge Management and Human Resources Development: Challenges and Opportunities (CN-324)
2 – 5 July 2024, TBA

International Conference on Hybrid Imaging (IPET 2024) (CN-326)
7 – 11 October 2024, Vienna, Austria

International Conference on Small Modular Reactors and their Applications (CN-327)
28 – 31 October 2024, Vienna, Austria

Ministerial Conference on Nuclear Science and Technology for Development (CN-328)
12 – 14 November 2024, Vienna, Austria

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security: Enhancing science and adaptability in a changing world and creating perspective for a young generation (CN-329)
2 – 6 December 2024, Vienna, Austria

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