**International Conference on Computer Security in the Nuclear World: Security for Safety**

19 – 23 June 2023

PROGRAMME

Organized by the

International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

### Conference description

**Introduction**

The purpose of the conference is to provide a forum for presentations and discussion on nuclear security efforts to date within the area of computer security, for the review of emerging trends in computer security and areas that need to be addressed, for the consideration of possible objectives and priorities for nuclear security efforts in computer security, and for discussion on how the IAEA and other international organizations can contribute to international cooperation in this growing area.

The Conference will provide a global forum for competent authorities, operators, system and security integrators and vendors, and other relevant entities engaged in computer security activities related to nuclear security or safety to exchange information and foster international cooperation in computer security as an integral element of nuclear security and safety through:

* Presentations and discussion on nuclear security and safety efforts to date within the area of computer security (including achievements, experience gained, and lessons learned).
* Review of emerging trends in computer security and areas that need to be addressed.
* Consideration of possible objectives and priorities for nuclear security or safety efforts in computer security, and of how current approaches may evolve to address these and meet future challenges.
* Consideration of how the IAEA and other international organizations can contribute to international cooperation in this important area

**Registration and Attendance**

Conference participants are advised to arrive at Checkpoint 1/Gate 1 of the Vienna International Center one hour before the start of the meeting on the first day in order to allow for timely registration, security check and issue of grounds passes. Alternatively, participants can also register on Sunday 18 June from 15:00 to 18:00.

Grantees and Invited Speakers who have received financial support from the IAEA should please register their attendance at the Information Desk at the entrance of the M Building. The Information Desk and the Conference Secretariat in MOE67 will be staffed throughout the Conference and ready to assist at any time.

**Conference App**

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

**Conference Website & NUSEC Portal**

In addition to the Conference App, schedule, registration procedures and more general information will be available on the Conference Website at <https://www.iaea.org/events/cybercon23>.

**Conference Overview**

Conference will successively propose plenary sessions and parallel technical sessions. Plenary sessions will include on stage demonstrations related to computer security risks and mitigations. A so called “cyber-village” will also be opened during breaks and technical session to allow hands-on demonstrations.

All sessions are related to the main themes of the conference:

* Theme 1: State-Level Strategy and Regulatory Approaches
* Theme 2: Computer Security Programme Implementation
* Theme 3: Computer Security in Supply Chain Management
* Theme 4: Practical implementation of Computer Security Assurance Activities
* Theme 5: Sustainability of Computer Security
* Theme 6: Human Resources Contribution to Computer Security
* Theme 7: International Cooperation in Computer Security for A Nuclear Security Regime
* Theme 8: Computer Security of Emerging Digital Technologies for Nuclear Activities

Monday will start with plenary opening and panel sessions involving national and international leaders and expert discussion.

Monday afternoon and each half day from Tuesday to Thursday will commence with a plenary panel session followed by parallel technical sessions. Friday will conclude with the Presidents’ Report after plenary sessions related to emerging technologies.

The panel sessions will take place in Board Room B/M1, and the parallel technical sessions will take place in Board Room B/M1, Board Room A and Conference Room M2.

A reception is organized on Monday evening.

**Poster Presentations**

Poster presentations will be held in the Poster Area in front of Board Room A (2nd Floor, M Building) on Tuesday, Wednesday and Thursday during the coffee/tea breaks.

Poster presenters are kindly requested to affix their poster on the assigned poster board latest by Tuesday 09.00 am and to be at their poster during the poster session assigned to them (this information is available in this programme).

Posters will remain on display for the entire week of the Conference, and should be removed by 14:00 pm on Friday.

Poster can also be provided as **Interactive Content Presentations** (ICPs)

All ICP presenters are kindly requested to attend the ICP briefing to receive final logistical instructions. These briefings will occur at 08:30 every day at the ICP Station on the assigned day of their presentation (M Building, Ground Floor, Press room).

Further, ICP presenters are suggested to make use of the preview centre on the ground floor (M0E61) for a final check of their presentations, and to familiarize themselves with the touch-screen displays at least one day in advance of their respective presentations.

**Cyber-Village**

A cyber-Village will host hands-on computer security demonstrations with expert discussion on computer security protections to instill IAEA computer security principles and recommendations in Room M4 & M6 on Tuesday, Wednesday and Thursday upon schedule.

Participants will be able to attend demonstrates on an Asherah Nuclear Power Plant, Gula Hospital, and MORC detection equipment to understand the cyber implications and mitigation techniques to defend against cyber-attacks.

Participants will also be able to sign expressions of interest for a new computer security regulation drafting school that will initiate in 2024 and a new virtual training environment deployment for member states. These two activities will be showcased in the Cyber-Village.

**Discussions**

All sessions are being recorded. 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, country or organization and be as concise as possible.

**The Media**

The opening session is open to the press. All other sessions will be limited to Conference participants.

**Scenario-Based Policy Discussion**

Scenario-Based Policy Discussion can be held during demonstrations, at least Monday morning. This will be an interactive activity where audience members can use their personal electronic devices, such as a mobile phone, tablet or laptop, to provide input into questions raised regarding themes and topics relevant to the Conference.

Scenario-Based Policy Discussion will take place in Board Room B/M1.

**Side Events**

A number of side events are scheduled throughout the Conference Programme, organized by interested Member States and Organizations and the IAEA, and relate to a number of topics relevant to Computer Security in the Nuclear World. 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 their capability to mitigate or support mitigation of cyber-risks. Please take the time to visit and talk with the exhibition booths.

**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 talk with the contributors.

**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:

Co-Presidents: Ms Na Young Lee

TBC

**IAEA Secretariat:**

Scientific Secretaries: Mr Trent Nelson

Mr Christophe Pilleux

Scientific and Ms Charlotte Grace Gherardini

Administrative Support:

Conference Coordinator: Mr Sanjai Padmanabhan

**Conference Venue:**

International Atomic Energy Agency

Vienna International Centre (VIC)

Building M

Wagramer Strasse 5

A-1400 Vienna, Austria

Tel.: (+43 1) 2600 21330

**Working Language:** English

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

**Programme Committee:**

**Chairperson:**

Cantemir Ciareu Romania Chair PCM 1, 3 & 4

Charlotte East Australia co-chair PCM 1

Heliton Briglia Brazil co-chair PCM 2

Nadia Nawwar Egypt co-chair PCM 2, 3 & 4

**Members**

Lucas Nogueron Argentina

Nick Howarth Australia

Paul Smith Austria

David Allison Austria

Leonardo De Andrade Brazil

Jefferson Pinto Brazil

Macdonald Marienna Canada

LI Jianghai China

LI Ruonan China

LIU Xiaojun China

LI Yong China

Wencai Tang China

Sai Wang China

Ming Yao China

Bairui Zhang China

Bo Zong China

Hitham Shaheen Egypt

Mohamed Ahmed Egypt

Mahmoud Sabry Egypt

Soliman Ahmed Galal Egypt

Tony Huhtakangas Finland

Frédéric Boën France

Olivier Fichot France

Laurent Moutenot France

Wolfram Rother Germany

Joseph Gigi India

Makarand Kulkarni India

Jinadass Rajan India

Intan Savitri Indonesia

Dhanu Dwiadhika Indonesia

Djoko Hari Nugroho Indonesia

Lilis Susanti Setianingsih Indonesia

Jeong Ho Lee Korea

Hyunjoo Lee Korea

Mohamed Belabar Morocco

Mamane Bawa Niger

Ethel Ofoegbu Nigeria

Oluwafemi Adegbulugbe Nigeria

Dumitru Musat Romania

Andrey Gubanok Russia

Gleb Lebedev Russia

Ekaterina Rudina Russia

Alexander Bulychev Russia

Pavel Tsvetov Russia

Samo Tomažič Slovenia

Matthew Lloyd Davies UK

Yvonne Bannister UK

Rakesh Burgul UK

Mike Saint-John Green UK

Sarah Ayers USA

Nancy Fragoyannis USA

James Beardsley USA

Gregory White USA

Anne Mac Quaid USA

Robert Anderson USA

Sarah Minot Asrar USA

Brian Yip USA

Nota: underline = participation to all meetings

### IAEA Mobile Conference Application



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

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| **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 sessions and exhibitors |
|  | Read abstracts and full‑papers of speakers |
|  | Participate in voting during sessions |
|  | Raise questions to speakers during session |
|  | Send message to other participants |
|  | Receive announcements via push‑notification |

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

# TIMETABLE

## Sunday, 19 June 2023

| Time |  | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| 15:00–18:00 |  | Registration and Distribution of Conference Materials | Gate 1 |

## Monday, 19 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| *08:00-ongoing* |  | Registration and Distribution of Conference Materials | Gate 1 |
| *10:00-11:00* | PS 1.1 | Opening Session | Board Room B (BR-B)/M1 |
| *11:00-11:30* |  | *Coffee Break* |  |
| *11:30-13:00* | PS 1.3 | *Demonstration from IAEA*:  The State of Anshar Computer Security Protections | BR-B/M1 |
| *13:00-14:00* |  | *Lunch Break* |  |
| *14:00-15:00* | PS 1.4 | *Plenary session on theme 1*  State-Level Strategy and Regulatory Approaches | BR-B/M1 |
| *15:00-15:30* |  | *Coffee Break* |  |
| *15:30-17:00* | TS 1.1a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *15:30-17:00* | TS 1.1b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *15:30-17:00* | TS 1.1c | *Technical session on theme 6*  Human Resources Contribution to Computer Security | TBD |
| *15:30-17:00* | TS 1.1d | *Technical session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | TBD |
| *17:00-17:30* |  | *Coffee Break* |  |
| *17:30-18:15* | PS 1.5 | *Demonstration from INDIA:*  Air Gap Attacks – How They Happen and How to Detect Them | BR-B/M1 |
| *18:30-19:30* |  | *IAEA Welcome Reception* | M-Building – Ground Floor |

## Tuesday, 20 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| *09:00-09:45* | PS 2.1 | *Plenary session on theme 2*  Computer Security Programme Implementation | BR-B/M1 |
| *09:45-10:30* | PS 2.2 | *Demonstration from Rep. of KOREA:*  Safety-Security Interface | BR-B/M1 |
| *10:30-11:00* |  | *Coffee Break* |  |
| *10:30-12:30* | CV 2.1 | Cyber Village | M4 & M6 |
| *10:30-11:00* | Po 2.1 | *Poster Session 1* | Front of BRA |
| *11:00-12:30* | TS 2.1a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *11:00-12:30* | TS 2.1b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *11:00-12:30* | TS 2.1c | *Technical session on theme 4*  Practical Implementation of Computer Security Assurance Activities | TBD |
| *11:00-12:30* | TS 2.1d | *Technical session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | TBD |
| *12:30-14:00* |  | *Lunch Break* |  |
| *12:45-13:30* | SE 2.1 | *Side Event from…*  *Title* | BR-B/M1 |
| *14:00-14:45* | PS 2.3 | *Plenary session on theme 3*  Computer Security in Supply Chain Management | BR-B/M1 |
| *14:45-15:30* | PS 2.4 | *Demonstration from* *FRANCE:*  Cyber by Design Approach for upgrading I&C in an NPP | BR-B/M1 |
| *15:30-16:00* |  | *Coffee Break* |  |
| *15:30-17:30* | CV 2.2 | Cyber Village | M4 & M6 |
| *15:30*-*16:00* | Po 2.2 | *Poster Session 2* | Front of BR-A |
| *16:00-17:30* | TS2.1a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *16:00-17:30* | TS2.1b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *16:00-17:30* | TS2.2c | *Technical session on theme 3*  Computer Security in Supply Chain Management | TBD |
| *16:00-17:30* | TS2.2d | *Technical session on theme 5*  Sustainability of Computer Security | TBD |
| *17:45-18:45* | SE 2.2 | *Side Event from…*  *Title* | BR-B/M1 |

## Wednesday, 21 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| *09:00-09:45* | PS 3.1 | *Plenary session on theme 4*  Practical Implementation of Computer Security Assurance Activities | BR-B/M1 |
| *09:45-10:30* | PS 3.2 | *Demonstration from UK:*  Assuring the Computer Security Through Development Cycle | BR-B/M1 |
| *10:30*-*11:00* |  | *Coffee Break* |  |
| *10:30-12:30* | CV 3.1 | Cyber Village | M4 & M6 |
| *10:30-11:00* | Po 3.1 | Poster Session 3 | Front of BRA |
| *11:00-12:30* | TS3.1a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *11:00-12:30* | TS3.1b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *11:00-12:30* | TS3.1c | *Technical session* *on theme 3*  Computer Security in Supply Chain Management | TBD |
| *11:00-12:30* | TS2.1d | *Technical session on theme 4*  Practical Implementation of Computer Security Assurance Activities | TBD |
| *12:30-14:00* |  | *Lunch Break* |  |
| *12:45-13:30* | SE 3.1 | *Side Event from…*  Title | BR-B/M1 |
| *14:00-14:45* | PS 3.3 | *Plenary session on theme 5*  Sustainability of Computer Security | BR-B/M1 |
| *14:45-15:30* | PS 3.4 | Demonstration from AUSTRALIA:  Computer Security Incident Response | BR-B/M1 |
| *15:30*-*16:00* |  | *Coffee Break* |  |
| *15:30-17:30* | CV 3.2 | Cyber Village | M4 & M6 |
| *15:30*-*16:00* | Po 3.2 | Poster Session 4 | Front of BR-A |
| *16:00-17:30* | TS3.2a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *16:00-17:30* | TS3.2b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *16:00-17:30* | TS3.2c | *Technical session on theme 5*  Sustainability of Computer Security | TBD |
| *16:00-17:30* | TS3.2d | *Technical session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | TBD |
| *17:45-18:45* | SE 3.2 | *Side Event from…*  *Title* | BR-B/M1 |

## Thursday, 22 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| *09:00-09:45* | PS4.1 | *Plenary session on theme 6*  Human Resources Contribution to Computer Security | BR-B/M1 |
| *09:45-10:30* | PS 4.2 | *Demonstration from CHINA:*  Insider Threat Control, Using Detection Tools to Discriminate Abnormal Behaviors | BR-B/M1 |
| *10:30*-*11:00* |  | *Coffee Break* |  |
| *10:30-12:30* | CV 4.1 | Cyber Village | M4 & M6 |
| *10:30-11:00* | Po 4.1 | Poster Session 5 | Front of BRA |
| *11:00-12:30* | TS4.1a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *11:00-12:30* | TS4.1b | *Technical session on theme 2*  Computer Security Programme Implementation | TBD |
| *11:00-12:30* | TS4.1c | *Technical session on theme 5*  Sustainability of Computer Security | TBD |
| *11:00-12:30* | TS4.1d | *Technical session on theme 6*  Human Resources Contribution to Computer Security | TBD |
| *12:30-14:00* |  | *Lunch Break* |  |
| *12:45-13:30* | SE 4.1 | *Side Event from…*  *Title* | BR-B/M1 |
| *14:00-14:45* | PS 4.3 | *Plenary session on theme 7*  International Cooperation in Computer Security for a Nuclear Security Regime | BR-B/M1 |
| *14:45-15:30* | PS 4.4 | *Demonstration from the USA:*  The Gula Regional Hospital Attack | BR-B/M1 |
| *15:30-16:00* |  | *Coffee Break* |  |
| *15:30-17:30* | CV 4.2 | Cyber Village | M4 & M6 |
| *15:30-16:00* | Po 4.2 | *Poster Session 6* | Front of BR-A |
| *16:00-17:30* | TS4.2a | *Technical session on theme 1*  State-Level Strategy and Regulatory Approaches | TBD |
| *16:00-17:30* | TS4.2b | *Technical session on theme 4*  Practical Implementation of Computer Security Assurance Activities | TBD |
| *16:00-17:30* | TS4.2c | *Technical session on theme 7*  International Cooperation in Computer Security for A Nuclear Security Regime | TBD |
| *16:00-17:30* | TS4.2d | *Technical session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | TBD |
| *17:45-18:45* | SE 4.2 | *Side Event from…*  *Title* | BR-B/M1 |

## Friday, 23 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| *09:00-10:30* | PS 5.1 | *Plenary session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | BR-B/M1 |
| *10:30-11:00* |  | *Coffee Break* |  |
| *11:00-12:30* | PS 5.2 | *Plenary session on theme 8*  Computer Security of Emerging Digital Technologies for Nuclear Activities | BR-B/M1 |
| *12:30-13:00* |  | Closing Session | BR-B/M1 |

# DETAILED PROGRAMME

### SUNDAY, 18 June 2023

| Time | Session No. | Session Title / Activity | Venue |
| --- | --- | --- | --- |
| 15:00–18:30 |  | Registration and Distribution of Conference Materials | Gate 1 |

MONDAY, 19 June 2023, PS 1.1

|  |  |  |
| --- | --- | --- |
| 10:00–11:00 | OPENING SESSION | BR-B/M1 |
| Chair | Scott Purvis, Information Management Section Head, IAEA | |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Name and Title | Affiliation | Title |
| --- | --- | --- |
| **Rafael Mariano Grossi**  Director General | IAEA | Opening Statement |
| **Na Young Lee**  Co-president | Korea Institute of Nuclear non-proliferation and Control (KINAC) | Opening Remarks |
| **TBC co-president** |  | Opening Remarks |
| **Elena Buglova**  Director | IAEA/NSNS | Opening Remarks |
| **Robert Lee**  Chief Executive Officer and Founder, Dragos | USA | Current Computer Security and Critical Infrastructure |

MONDAY, 19 June 2023, PS 1.3

|  |  |  |
| --- | --- | --- |
| 11:30–13:00 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Scott Purvis, Information Management Section Head, IAEA | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country/ Organisation | Title |
| --- | --- | --- |
| Donald Dudenhoeffer | IAEA | The State of Anshar Computer Security Protection |
| Corey Hinderstein | USA | Interactive discussion |
| Gorazd Božič | Slovenia | Interactive discussion |

MONDAY, 19 June 2023, PS 1.4

|  |  |  |
| --- | --- | --- |
| 14:00–15:00 | PLENARY SESSION – TH1 | BR-B/M1 |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Paul Shanes,  Superintending Inspector, Head for Cyber & Personnel Security, ONR | |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Samo Tomažič | Slovenia | 090 - Key Computer Security Regulation Elements |
| Maya Pillai | UK | 176 - Developing and Implementing Cross-Sector Cyber Strategy |
| N. Delaunay | IAEA | Xxx - IAEA Regulatory Approaches |
| J. Sladek | Canada | CSNS Regulatory approaches and incorporation of computer security |

MONDAY, 19 June 2023, TS 1.1a

|  |  |  |
| --- | --- | --- |
| 15:30–17:00 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | John Sladek, CNSC, Canada | |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |
| Rapporteur | Anya Kim (NRC) | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| B.Yip | USA | 033 - Primary Contributing Causes of Cybersecurity Inspection Findings at U.S. Nuclear Power Plants |
| W.Cain | UK | 194 - Transitioning to an outcome focused regulatory regime for civil nuclear security |
| J. Dejoz | Switzerland | 197 - Swiss Computer Security Regulatory Approach: Different Roles, Common Objectives |

MONDAY, 19 June 2023, TS 1.1b

|  |  |  |
| --- | --- | --- |
| 15:30–17:00 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Marienna Macdonald, CNL, Canada | |
| Technical Officer | Mitchell Hewes, Information Security Officer, IAEA | |
| Rapporteur | Robert Anderson, INL, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Innocent Ocheme | Nigeria | 005 - Review and Strengthening Cybersecurity of Sensitive Digital Assets (SDAs) in a Radioactive Facility |
| R.Ranaivoson | Madagascar | 151 - Computer Security and Nuclear Security in Madagascar |
| Jacob Benjamin | USA | 050 - Establishing an OT SOC for Nuclear |
| Christophe Martin | France | 092 - Cybersecurity with its specificities as an integrated approach within the nuclear security and nuclear safety management in EDF nuclear generation division |

MONDAY, 19 June 2023, TS 1.1c

|  |  |  |
| --- | --- | --- |
| 15:30–17:00 | TECHNICAL SESSION – TH6 | TBD |
|  | Human Resources Contribution to Computer Security | |
| Chair | Makarand Kulkarni, AERB, India | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| S. Ige | Nigeria | 023 - Curbing Cyber Threats with Dynamic Human Resource Management Policies |
| V. Derouet | France | 101 - French Nuclear Security Centre of Excellence for Nuclear Operators/French CoE: A Tool for Enhancing OT/I&C Computer Security. |
| Irvan Dwi Junianto | Indonesia | 059 - Optimizing Cyber Security Knowledge Management to Face Challenges at Nuclear Security in Indonesia |
| M. Rowland | USA | 162 - International Efforts on Cybersecurity Nuclear Capacity Building within a 3-Model Framework |

MONDAY, 19 June 2023, TS 1.1d

|  |  |  |
| --- | --- | --- |
| 15:30–17:00 | TECHNICAL SESSION – TH8 | TBD |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
| Chair | Jianghai Li, Tsinghua University, China | |
| Technical Officer | Rodney Busquim, Information Security Officer, IAEA | |
| Rapporteur | Anne McQuaid, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Anya Kim | USA | 038 - A Zero Trust Framework for Nuclear Facilities |
| Mohamadreza Mahmoodvand | Iran | 043 - Assessing Cybersecurity Mesh Architecture for Using at Nuclear Facilities |
| Christopher Lamb | USA | 076 - Information Protection in Nuclear Systems |

MONDAY, 19 June 2023, PS 1.5

|  |  |  |
| --- | --- | --- |
| 17:30–18:15 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from India: Makarand Kulkarni? | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Ajay Kumar, Josef Gigi | India | Air Gap Attacks – How They Happen and How to Detect Them? |

TUESDAY, 20 June 2023, PS 2.1

|  |  |  |
| --- | --- | --- |
| 09:00–09:45 | PLENARY SESSION – TH2 | BR-B/M1 |
|  | Computer Security Programme Implementation | |
| Chair | Mohamed Ibrahim Al Hammadi, | |
| Technical Officer | Mitchell Hewes, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Mohamed Ibrahim Al Hammadi**,**  **CEO ENEC,** | **UAE** |  |
| Ramzi Jammal - Executive Vice President and Chief Regulatory Operations Office |  |  |

TUESDAY, 20 June 2023, PS 2.2

|  |  |  |
| --- | --- | --- |
| 09:45–10:30 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from RoK: Na Young Lee? | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Jeong-Ho Lee | Rep. of Korea | Safety Security Interface |

TUESDAY, 20 June 2023, CV 2.1

|  |  |  |
| --- | --- | --- |
| 10:30–12:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

TUESDAY, 20 June 2023, Po 2.1

|  |  |  |
| --- | --- | --- |
| 10:30–11:00 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 010 | Luis Morel Cepeda | Dominican Republic | Sustainable Implementation of Cybersecurity in The Regulatory Framework of The Dominican Republic |
|  | 051 | Magy Kandil | Egypt | Interface Between Safety and Security at Cyber Security in NPP I&C System |
|  | 067 | Mohammed Abdullah Abdulrahman Ahmed | Sudan | The Burden of Nuclear Information Security in Sudan: Weaknesses and Strengths |
|  | 088 | Dwi Rahayu | Indonesia | Analysis Of Computer Security Regulations Readiness at Nuclear Installation Towards the First NPP in Indonesia |
|  | 116 | Salih Bicakci | Türkiye | Between Compliance and Operability: Building Holistic Trust Management for Nuclear Power Plants |

TUESDAY, 20 June 2023, TS 2.1a

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Lilis Susanti Setianingsih, BAPETEN, Indonesia | |
| Technical Officer | Jim Beardsley, xxx, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| John Sladek | Canada | 095 - Canadian National Standard and its Use in Supporting Regulatory Activities |
| Blessing Kaeruza | Zimbabwe | 126 - Computer Security in Zimbabwe’s Nuclear Security Regime. |
| Mulyadi Mulyadi | Indonesia | 006 - Design Of Computer Security Incident Handling Procedures in Nuclear Installations in Indonesia |
| Hyunjoo Lee | ROK | 150 - Nuclear Regulatory System in Korea |

TUESDAY, 20 June 2023, TS 2.1b

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Greg White, DoE, USA | |
| Technical Officer | Jorge Luis Hernandez (NSNI) | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Lisa Campbell | USA | 139 - PowerPoint Isn’t Working: Changing How We Teach Computer Security to Increase Retention and Awareness in Hybrid Learning Environments |
| Faisal Al Bousi | UAE | 171 - Operator Experience in Implementing Cyber Security in a New Build NPP |
| Jianghai Li | China | 174 - A Cyber-Physical Integrated Approach to Discriminate Insider Threat from Common Abnormal Behaviors: A Case Study Of I&C Systems |

TUESDAY, 20 June 2023, TS 2.1c

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH4 | TBD |
|  | Practical Implementation of Computer Security Assurance Activities | |
| Chair | Matthew Lloyd Davies, Pluralsight, UK | |
| Technical Officer | Robert Larson | |
| Rapporteur | Samuel Clements, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Christophe MARTIN | France | 103 - Computer Security Assessment in EDF Nuclear Generation: An Onion Layers Structure |
| Shadya Maldonado Rosado | USA | 158 - Emerging Technologies for Enhanced Cyber Detection and Response |
| W. Cain | UK | 107 - Intelligence-led, Cyber Kill Chain-Designed Assurance - “A Risk-Informed Approach to Assurance Testing”. |
| Faisal M Al Bousi | UAE | 168 - C2M2 Assessment for Nuclear Facilities |

TUESDAY, 20 June 2023, TS 2.1d

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH8 | TBD |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
| Chair | Lucas Nogueron, CNEA, Argentina | |
| Technical Officer | Assel Khamzayeva | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Jae-Gu Song | ROK | 032 - Considerations of Cyber Security for i-SMR |
| Michael Rowland | USA | 053 - Recent Progress on Simulating Physical Protection Systems for Radioactive Materials as Part of the IAEA’s Cooperative Research Program |
| Nicolas Chevaux | France | 115 - Key Cybersecurity Principles and Aspects of The NUWARD SMR design |
| In-hyo Lee | Korea, Rep. of | 119 - Proposal for NPPs Cyber Security Test-bed Concept |

TUESDAY, 20 June 2023, PS 2.3

|  |  |  |
| --- | --- | --- |
| 14:00–14:45 | PLENARY SESSION – TH3 | BR-B/M1 |
|  | Computer Security in Supply Chain Management | |
| Chair | Jean-Hughes Zorio, EDF, France | |
| Technical Officer | Rodney Busquim, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

Panel on Computer Security in Supply Chain Management

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| John Sladek | Canada | Regulator: |
| Brian Moss | Canada | Operator |
| Shannon Eggers | USA | Expert |
| Alexander Choren | WNA | Vendor |

TUESDAY, 20 June 2023, PS 2.4

|  |  |  |
| --- | --- | --- |
| 14:45-15:30 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from France: Frederic Boen? | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Herve Bury | France | Cyber by Design Approach for upgrading I&C in an NPP |

TUESDAY, 20 June 2023, CV 2.2

|  |  |  |
| --- | --- | --- |
| 15:30–17:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

TUESDAY, 20 June 2023, Po 2.2

|  |  |  |
| --- | --- | --- |
| 15:30–16:00 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 094 | Harris Johnson | Liberia | Computer Security in Supply Chain Management |
|  | 175 | Suzanne Desiree Kombou Kekouomi | Cameroon | Cameroon's Integrated Approach to Computer Security with Regulatory Authorities |
|  | 003 | Joao Claudio Batista Fiel | Brazil | Cyber Attacks Impacts on A Nuclear Security System of a Brazilian Nuclear Installation |
|  | 030 | Imron Rusmanatmojo | Indonesia | Computer Security Hazard Identification on The Online Nuclear Material Licensing in Indonesia |
|  | 055 | Tariq Malatim | Libya | Computer Security as A Part of Nuclear Knowledge Management Process |

TUESDAY, 20 June 2023, TS 2.2a

|  |  |  |
| --- | --- | --- |
| 16:00-17:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Nadia Nawwar, EAEA, Egypt | |
| Technical Officer | Sarah Henry Bolt | |
| Rapporteur | Daniel Warner, NRC | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Eric Benner | USA | 022 - Ensuring Appropriate Cybersecurity while Enabling Digital I&C Adoption |
| Brandon Gorton | USA | 052 - Best Practices and Challenges in Adding Cybersecurity to Existing State Regulations on the Physical Security of Radioactive Materials |
| Jens Uwe Buettner | Germany | 054 - Implementing Cyber Security into German Security Regime for Radioactive Material |
| Juraj Vaclav | Slovakia | 186 - Nuclear Installations Computer Security in Slovak Republic. |

TUESDAY, 20 June 2023, TS 2.2b

|  |  |  |
| --- | --- | --- |
| 16:00-17:30 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Scott Hilts, Canada | |
| Technical Officer | Tufail Ahmad | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Claudia Quester | Germany | 028 - Keeping Track of The Threat Landscape |
| Cesar Romao | Brazil | 046 - Implementation of a Cyber DBT in a Nuclear Security Program |
| Kwang-Seop Son | ROK | 145 - Study On the Cyber Threat Detection Techniques Based on Network and Process-Level Data in NPPs |

TUESDAY, 20 June 2023, TS 2.2c

|  |  |  |
| --- | --- | --- |
| 16:00-17:30 | TECHNICAL SESSION – TH3 | TBD |
|  | Computer Security in Supply Chain Management | |
| Chair | Faisal Mousa Ibrahim Al Bousi, UAE | |
| Technical Officer | Alessia y Baena | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Ademola Francis | Nigeria | 019 - The Impact of Supply Chain Attacks on Cybersecurity |
| Poe Park | ROK | 105 - Study on applying IEC 62443 4-2 requirements on RG 5.71 with implementing NEI 13-10's graded approach |
| Lisa Campbell | USA | 140 - Supply Chain Risk Management in the Nuclear Industry |
| Marienna Mac Donald | Canada | 201 - Supply Chain Cyber Security Assurance Methodology |

TUESDAY, 20 June 2023, TS 2.2d

|  |  |  |
| --- | --- | --- |
| 16:00-17:30 | TECHNICAL SESSION – TH5 | TBD |
|  | Sustainability of Computer Security | |
| Chair | Rosemary Butare, Rwanda | |
| Technical Officer | Jordan Swarthout | |
| Rapporteur | Charlie Nickerson, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Gwinyai Venge | Zimbabwe | 045 - Sustainability of Computer Security |
| Shannon Eggers | USA | 191 - Cyber-Informed Engineering Guidance—Implementing CIE through the Systems Engineering Lifecycle |
| Drew Christensen | USA | 192 - Computer Security Continuous Monitoring Programs and the Nuclear Industry |

WEDNESDAY, 21 June 2023, PS 3.1

|  |  |  |
| --- | --- | --- |
| 09:00–09:45 | PLENARY SESSION – TH4 | BR-B/M1 |
|  | Practical implementation of Computer Security Assurance Activities | |
| Chair | Na Young Lee, DG KINAC, Rep. of Korea | |
| Technical Officer | Rodney Busquim, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Metka Tomažič; Saša Kuhar | Slovenia | 014 - The KiVA2022 International Cyber Security Exercise for Nuclear Facilities |
| Michael Rowland | USA | 161 - Cyber-Physical Environment to Evaluate Blended Attack Exercises |

WEDNESDAY, 21 June 2023, PS 3.2

|  |  |  |
| --- | --- | --- |
| 09:45–11:00 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from UK: Paul Shane? |  |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Warren Cain | UK | Assuring the Computer Security - Through Development Cycle, Including Threat Analysis, Supply Chain Techniques, Pen Testing |

WEDNESDAY, 21 June 2023, CV 3.1

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

WEDNESDAY, 21 June 2023, Po 3.1

|  |  |  |
| --- | --- | --- |
| 11:00–11:30 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 056 | Emmanuel Lungu | Zambia | Practical Implementation of Computer Security Assurance Activities |
|  | 058 | Alfitri Meliana | Indonesia | Cybersecurity Education Workshop for Raising Awareness among Nuclear Energy Research Organization employees in Indonesia. |
|  | 060 | Erkin Kirdan | Germany | OPC UA Security for Nuclear |
|  | 061 | Gunay Abdiyeva-Aliyeva | Azerbaijan | Network-Based Intrusion Detection with Machine Learning Algorithms |
|  | 212 | Alem Habtemariam Bezu | Ethiopia | The role of computer security for radioactive source safety: review of Ethiopia regulatory system, radioactive waste processing and storage facility system |
|  | 082 | Aliou Niane | Senegal | Overview Of National Strategies and Actions Related to Computer Security Regulation and Cybersecurity in Nuclear Security |

WEDNESDAY, 21 June 2023, TS 3.1a

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Gregory Bowman, NRC, USA | |
| Technical Officer | Valerie Rouillet-Chatelus | |
| Rapporteur | Jeffrey Knight, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Jean-Hugues Zorio | France | 111 - Graded Approach for Cybersecurity at EDF: Focus on Key Design Principles |
| Paulina Giżowska | Poland | 154 - The Role of Policy Experts, Lawyers and Regulators in The Nuclear Cyber World: Building Computer Security Capabilities Where You Least Expect Them |
| F. Al Hammadi, Al Muhairi | UAE | 202 - Implementation of a Strong Cyber Security Program at the UAE Barakah NPP |

WEDNESDAY, 21 June 2023, TS 3.1b

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Ludovic Pietre-Cambacedes, EDF, France | |
| Technical Officer | Austin Hammer | |
| Rapporteur | Anne McQuaid, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Jacob Benjamin | USA | 049 - Building Incident Response Programs for Nuclear |
| Gabriel Gomez | Argentina | 073 - OT Network Segmentation for a Greenfield Nuclear Fuel Facility Project |
| Drew Christensen | USA | 193 - Providing Guidance for Creating Zero Trust Architecture for Nuclear Facilities |
| Nick Howarth | Australia | 199 - Application of IAEA Guidance NSS 17-T (Rev. 1) at ANTSO |

WEDNESDAY, 21 June 2023, TS 3.1c

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH3 | TBD |
|  | Computer Security in Supply Chain Management | |
| Chair | Marienna Macdonald, CNL, Canada | |
| Technical Officer | Sara Mroz | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Brandon Gorton | USA | 024 - Implementation of Supply Chain Risk Management within the Office of Radiological Security |
| Christian Korn | Germany | 029 - Cybersecurity In the Supply Chain |
| Ahmed Salah Mahmoud Ibrahim | Nuclear Power Plants Authority | 206 - Practical Approach to the Nuclear Cyber Supply Chain: Challenges and Lessons Learned |
| Shannon Eggers | USA | 190 - The ‘Crawl, Walk, Run’ Approach to Implementing Software Bill of Materials (SBOM) in Nuclear Facilities |

WEDNESDAY, 21 June 2023, TS 3.1d

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH4 | TBD |
|  | Practical Implementation of Computer Security Assurance Activities | |
| Chair | David Allison, AIT, Austria | |
| Technical Officer | Yun Goo KIM | |
| Rapporteur | Clifford Glantz, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Tadej Šeruga | Slovenia | 117 - The Amazing Cyber Race |
| R. Busquim | IAEA | 180 - Development of the Brazilian Cyber Guardian Exercise 4.0 Cyber Attack Scenarios |
| Nayab Javed | Pakistan | 069 - Vulnerability Severity Scoring System in IT vs. OT Environment |

WEDNESDAY, 21 June 2023, PS 3.3

|  |  |  |
| --- | --- | --- |
| 14:00–14:45 | PLENARY SESSION – TH5 | BR-B/M1 |
|  | Sustainability of Computer Security | |
| Chair | Nancy Fragoyannis, NRC, USA | |
| Technical Officer | Mitchell Hewes, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Alexander Schug | Germany | 027 - Sustainability of Computer Security – From Incidents to Intrusion |
| Mike StJohn Green | UK |  |
| Helmut Leopold | Austria |  |

WEDNESDAY, 21 June 2023, PS 3.4

|  |  |  |
| --- | --- | --- |
| 14:45–15:30 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from Australia: Marianne Morton? | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Nick Howarth/Ryan Beeby | Australia | Computer Security Incident Response |

WEDNESDAY, 21 June 2023, CV 3.2

|  |  |  |
| --- | --- | --- |
| 15:30–17:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

WEDNESDAY, 21 June 2023, Po 3.2

|  |  |  |
| --- | --- | --- |
| 15:30–16:00 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 091 | Kizito Mubiru | Uganda | Modeling Lifecycle Budget Allocation for Computer Security of Nuclear Facilities |
|  | 098 | Yaziz Hasan | Indonesia | Assessment of Human Behavioural and Organizational Factors in Computer Security: Indonesian Nuclear Installation Approach |
|  | 099 | Jorshan Choi | USA | Cybersecurity Challenges for Autonomous- or Semi-Autonomous-Controlled Novel Advanced Small Modular Reactors (SMRs) |
|  | 120 | Fathi E. Abd El-samie | Egypt | A Hybrid Model for Iris Template Privacy Preserving Using Cancellable Biometrics and Elliptic Curve Cryptography |
|  | 134 | Leonardo Barenghi | Argentina | Recommendations For the Implementation of Computer Security and Information Security Measures in Activities Related to Ionizing Radiation, Nuclear and Radioactive Materials. |
|  | 137 | Dragan Pavlicevic | Montenegro | Computer Vision for Nuclear Safety and Security |

WEDNESDAY, 21 June 2023, TS 3.2a

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Fatima Al Muhairi, FANR, UAE | |
| Technical Officer | Thierry Pelletier | |
| Rapporteur | Robert Anderson, INL, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Djoko Hari Nugroho | Indonesia | 017 - The Development of Nuclear Computer Security Regulations in Indonesia: A Guide on The Assessment of Trustworthiness |
| Emad Eldin Khedr | Egypt | 034 - ENRRA Approach for Computer Security as Part of Its Nuclear Security Regime |
| Dan Warner | USA | 044 - History of Cybersecurity Under Two Regulators for Balance of Plant Digital Assets at US Nuclear Plants |
| Jacob Benjamin | USA | 047 - Developing Resilient DBTs for Computer Security |

WEDNESDAY, 21 June 2023, TS 3.2b

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Olivier Fichot, IRSN, France | |
| Technical Officer | Quillan Rose | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Nelson Kodzotse Agbemava | Ghana | 152 - Ghana Nuclear Facilities Design of Cybersecurity Incident Handling Procedure |
| Marcia Maria Savoine | Brazil | 183 - Best Practices for Responding to Incidents in WSN Coupled to IOT Devices in Nuclear Research Laboratory Radioactive and Associated |

WEDNESDAY, 21 June 2023, TS 3.2c

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH5 | TBD |
|  | Sustainability of Computer Security | |
| Chair | Mike Rowland, DoE, USA | |
| Technical Officer | Nigel Tottie | |
| Rapporteur | Andrew Hahn, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Servann Pigault | France | 113 - Computer Security by Design for Critical Industrial OEM equipment |
| Samuel Clements | USA | 146 - Safety Versus Security: What’s The Difference and Why It Matters! |
| Marienna Mac Donald | Canada | 200 - Incident Response |
| Erich Dahlheuser | PreussenElektra GmbH | 004 - Evolution and Sustainability of IT-Security within NPPs |

WEDNESDAY, 21 June 2023, TS 3.2d

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH8 | TBD |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
| Chair | Nick Howarth, ANSTO, Australia | |
| Technical Officer | Nelly Ngoy Kubelwa (NE) | |
| Rapporteur | Charlie Nickerson, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Subong Lee | ROK | 149 - A Case Study of Regulatory Approaches for Cyber Security in SMRs |
| Christopher Lamb | USA | 077 - Nuclear System Remote Operations Attack Surfaces |
| Greg White | USA | 163 - International Efforts on Performing Effective and Secure Remote Cybersecurity Inspections |

THURSDAY, 22 June 2023, PS 4.1

|  |  |  |
| --- | --- | --- |
| 09:00–09:45 | PLENARY SESSION – TH6 | BR-B/M1 |
|  | Human Resources Contribution to Computer Security | |
| Chair | Valerie Derouet, EDF, France | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | | Country | | Title |
| --- | --- | --- | --- | --- |
| Ethel Ofoegbu | | Nigeria | |  |
| xxx | | Australia | |  |
| xxx | | Canada | |  |
| Kirstin Sands | UK | | 031 - A Maturing Nuclear Industry Relies on a Younger Generation: A Review of Evolving Perspectives and their Impact on Human Resourcing | | |
| Mariana Gordillo | Argentina | | 096 - Raising Awareness about use of technological resources that contribute to cyber security within the Nuclear Regulatory Authority | | |

THURSDAY, 22 June 2023, PS 4.2

|  |  |  |
| --- | --- | --- |
| 09:45–10:30 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from China: xxx? | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Jianghai Li | China | Insider Threat Control, Using Detection Tools to Discriminate Abnormal Behaviours |

THURSDAY, 22June 2023, CV 4.1

|  |  |  |
| --- | --- | --- |
| 10:30–12:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

THURSDAY, 22 June 2023, Po 4.1

|  |  |  |
| --- | --- | --- |
| 10:30–11:00 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 141 | abdelouahed chetaine | Morocco | Complementarity Between Information and Cyber Security. |
|  | 147 | Ajay Kumar | India | Behaviour Monitoring and Anomaly Detection of Computer Systems in Instrumentation and Control Network |
|  | 156 | Seungjun Lee | Republic of Korea | Adopt Virtualization in Honeynet to Accumulate Cyber Breach Data |
|  | 157 | Trungtinh Nguyen | Vietnam | Human Resources Contribution to Computer Security of Regulatory Body of Vietnam |

THURSDAY, 22 June 2023, TS 4.1a

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Samo Tomažič, SNSA, Slovenia | |
| Technical Officer | Ayadh Alzyoud | |
| Rapporteur | Jeffrey Knight, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Ismael Garcia | USA | 001 - U.S.A. Regulatory Efforts for Cybersecurity of Advanced Reactors |
| Makarand Madhukar Kulkarni | India | 089 - Regulation of Nuclear and Computer Security by AERB, India |
| Gizem SEN Karakurt | Turkiye | 155 - Development Of Regulatory Approach for Computer Security of Nuclear Facilities in Türkiye |
| Justin Sigetich | Canada | 165 - Changes to Regulation of Cyber Security for Canadian Nuclear Facilities and Activities |

THURSDAY, 22 June 2023, TS 4.1b

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH2 | TBD |
|  | Computer Security Programme Implementation | |
| Chair | Mike St John Green, UK | |
| Technical Officer | Brunelle Battistella, IAEA | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Herve Bury | France | 112 - Computer Security Maintenance for Critical Industrial Assets: The Jointed View of EDF and Framatome |
| Clifford Glantz | USA | 148 - The Cybersecurity Capability Maturity Model for Nuclear Facilities: A Programmatic Self-Evaluation Tool |
| Adolfo Arreola | México | 207 - Increasing Cyber Resilience for Programmable Logic Controllers (PLC´s) in Mexico |
| Jacob Benjamin | USA | 048 - Defensible Network Architecture for Nuclear |

THURSDAY, 22 June 2023, TS 4.1c

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH5 | TBD |
|  | Sustainability of Computer Security | |
| Chair | Marianne Morton, Australia | |
| Technical Officer | Anna Gredinger | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Ludger Peters | Germany | 016 - Machine Learning Based Predictive Control to Ensure Integrity of Industrial Automation and Control Systems |
| Mohammad Ali Awan | Pakistan | 068 - PNRA’s Strategy for Regulating Extensively Digitized NPPs: A Case Study |
| Luis Agustín Nieto | Argentina | 172 - Classification Of Cyberattacks Applying Machine Learning Techniques in CNEA Network Infrastructure |
| Benjamin Akhras | Austria | 127 - Supporting Flexible and Engaging Computer Security Training Courses with the Online Learners Platform and Hands-on Exercises |

THURSDAY, 22 June 2023, TS 4.1d

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | TECHNICAL SESSION – TH6 | TBD |
|  | Human Resources Contribution to Computer Security | |
| Chair | Anne McQuaid, DoE, USA | |
| Technical Officer | Yura Shin | |
| Rapporteur | Drew Christensen, DOE-INS, USA | |

| Invited Speaker, Title | | Country | | Title |
| --- | --- | --- | --- | --- |
| Rhonda Evans | | WINS | | 170 - Diversity within the Cybersecurity Workforce as a Principal Contribution to Cybersecurity Risk Reduction |
| Paulo Henrique Bianchi | | Brazil | | 124 - Potential Organizational Behavior Management (OBM) contributions for raising Computer Security awareness and insider threat mitigation |
| Luc Dandurand | | Switzerland | | 177 - The Evolving Role of Cyber Ranges for Computer Security |
| Leo Nikolaev | Russia | | 208 - Using cyber ranges as a new way of addressing the lack of computer security competence | |

THURSDAY, 22 June 2023, PS 4.3

|  |  |  |
| --- | --- | --- |
| 14:00–14:45 | PLENARY SESSION – TH7 | BR-B/M1 |
|  | International Cooperation in Computer Security for A Nuclear Security Regime | |
| Chair | Scott Purvis | |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

Keynote session on International Cooperation in Computer Security for a Nuclear Security Regime

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Art Artkins | USA |  |
| Gorazd Bozic | Slovenia |  |
|  |  |  |

THURSDAY, 22 June 2023, PS 4.4

|  |  |  |
| --- | --- | --- |
| 14:45–15:30 | DEMONSTRATION SESSION | BR-B/M1 |
| Chair | Official support from USA: Art Artkins | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Charles Nickerson | USA | Insider threat - Gula Regional Hospital Attack |

THURSDAY, 22 June 2023, CV 4.2

|  |  |  |
| --- | --- | --- |
| 15:30–17:30 | CYBER VILLAGE SESSION | M4 & M6 |
| Technical Officer | Trent Nelson, Information Security Officer, IAEA | |

| Time | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
| 11:00–11:10 |  |  |  | xxx |

THURSDAY, 22 June 2023, Po 4.2

|  |  |  |
| --- | --- | --- |
| 15:30–16:00 | POSTER SESSION | Front of BRA |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |

| Poster Station | Paper  No. | Name | Designating Member State/Organization | Title of Paper |
| --- | --- | --- | --- | --- |
|  | 035 | Esturini Fitriyanti | Indonesia | The Role of Information Technology in Management of Inspection and Reporting for Research Reactors in Indonesia |
|  | 167 | Seungjun Lee | Republic of Korea | Precise Duplexing Abnormal Detection of Nuclear Cyber Security |
|  | 178 | Juan Manuel Pérez Javier | Mexico | Computer Security in Research Centers: Interrelationship Between Operational Technology and Information Security in Nuclear Security. |
|  | 184 | Mehmet Burak UNAL | China | Analysis of Cyber-attacks Towards Instrumentation and Control Systems with the ATT&CK Framework |
|  | 185 | Louis Tabai | Nigeria | Information Security and Computer Security Interdependencies Are Increasing Due to The Use of Digital Technology - I&C systems vs IT systems |
|  | 188 | Chonlagarn Iamsumang | Thailand | Challenges and Lessons Learned from the Development of Computer Security Regulation for Nuclear Facilities in Thailand |
|  | 205 | Fungai Maruve | Zimbabwe | The Implementation of the Zimbabwe’s National Cyber Security and Data Protection Act and the Radiation Protection Act in Countering Nuclear and Radiological Cyber Security Threats |

THURSDAY, 22 June 2023, TS 4.2a

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH1 | TBD |
|  | State-Level Strategy and Regulatory Approaches | |
| Chair | Jeff Knight, DoE, USA | |
| Technical Officer | Oum Keltoum | |
| Rapporteur | TBD MTIT | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Nasiru-Deen Bello | Nigeria | 018 - Legislative Framework for Computer Security: Nigeria Experience, Current and Future Actions |
| Frederic Boen | France | 100 - French New Nuclear Security Regulatory Requirements |
| Constantin Alex Sumanariu | Romania | 109 - Revision of Romanian Computer Security Regulation |
| Ralph Dollan | Germany | 153 - Computer Security Regulations in Germany |

THURSDAY, 22 June 2023, TS 4.2b

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH4 | TBD |
|  | Practical implementation of Computer Security Assurance Activities | |
| Chair | Nathan Faith | |
| Technical Officer | Matthew Tremonte | |
| Rapporteur | Clifford Glantz, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Scott Hilts | Canada | 128 - Benchmarking and Evaluation Services - Cybersecurity at Nuclear Facilities |
| Mario Fernandez | USA | 072 - Developing an Effective Cyber Security Training Program |
| Gareth Carrigan | UK | 009 - Adopting a Thematic Approach to Cybersecurity Regulation |
| Lea Cibrić | Slovenia | 203 - Security and Resilience: ICT Business Continuity Management System at Slovenian NSA |

THURSDAY, 22 June 2023, TS 4.2c

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH7 | TBD |
|  | International Cooperation in Computer Security for A Nuclear Security Regime | |
| Chair | Metka Tomažič, SNSA, slovenia | |
| Technical Officer | Branko Jovanovski | |
| Rapporteur | Lisa Campbell, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Julius Cesar Trajano | Singapore | 065 - Regional Cooperation on Cyber Security and its Impact on Nuclear Security: The Case of ASEAN |
| Ludovic Pietre-Cambacedes; | France | 108 - The IEC Cybersecurity Standard Series for Nuclear I&C: Overview and Perspectives |
| Alvaro Acevedo Zapata; Tomas Bieda | WINS | 173 - WINS Activities to Support International Efforts for Strengthening Cybersecurity at Nuclear Facilities |

THURSDAY, 22 June 2023, TS 4.2d

|  |  |  |
| --- | --- | --- |
| 16:00–17:30 | TECHNICAL SESSION – TH8 | TBD |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
|  |  | |
| Chair | Craig Erlanger, NRC, USA | |
| Technical Officer | Dejan Dimitrovski | |
| Rapporteur | Andrew Hahn, DOE-INS, USA | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Tamás Holczer | Hungary | 122 - Machine Learning Based Time Series Generation for the Nuclear Industry |
| Shadya Maldonado Rosado | USA | 159 - Software Defined-Networking (SDN) for Protection of PPS at Nuclear Facilities |
| Shannon Eggers | USA | 189 - Twenty Years and Counting—Where are they? Practical Considerations for Commercializing AI/ML for Intrusion Detection in Nuclear Reactors |

FRIDAY, 23 June 2023, PS 5.1

|  |  |  |
| --- | --- | --- |
| 09:00–10:30 | PLENARY SESSION – TH8 | BR-B/M1 |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
| Chair | Robert Anderson, DoE, USA | |
| Technical Officer | Christophe Pilleux, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | | Title | |
| --- | --- | --- | --- | --- |
| Gallia Daor | OECD | | Xxx - Landmark agreement adopted on safeguarding privacy in law enforcement and national security data access | |
| Rodney Busquim | | IAEA | | 196 - Evolution of the Asherah NPP Simulator Towards a SMR Cyber Assessment Tool |
| David Allison; Kieran McLaughlin; Paul Smith | | Austria | | 130 - On Digital Twins to Support Computer Security Incident Response at Nuclear Facilities |
| Lisa Campbell | | USA | | 138 - My Phone Says it’s Time to Replace the Fuel Rods: The Impact and Application of Internet of Things (IoT) in Nuclear Environments |

FRIDAY, 23 June 2023, PS 5.2

|  |  |  |
| --- | --- | --- |
| 11:00–12:30 | PLENARY SESSION – TH8 | BR-B/M1 |
|  | Computer Security of Emerging Digital Technologies for Nuclear Activities | |
| Chair | Paul Smith, AIT, Austria | |
| Technical Officer | Rodney Busquim, Information Security Officer, IAEA | |
| Rapporteur | TBD | |

| Invited Speaker, Title | Country | Title |
| --- | --- | --- |
| Olivier D’Henin | France | 020 - Hydra: An I&C Simulated Platform for Cyber Assessment |
| Andrew Hahn | USA | 160 - Open-Source Emulation Platform for Hands-on Cyber Attack Training and Experimentation |
| Imbaby Mahmoud GadAllah | Egypt | 040 - FPGA Designs Versus Stored Program Computing for Operation Safety, Security and Reusability of Nuclear Reactor Digital I&C Systems |
| David McColm | United Kingdom | 057 - ICS Honeypots |

FRIDAY, 23 June 2023, PS 5.3

|  |  |  |
| --- | --- | --- |
| 12:30–13:00 | CLOSING SESSION | BR-B/M1 |
| Chair | Scott Purvis, Information Management Section Head, IAEA | |
| Technical Officer | xxx | |
| Rapporteur | TBD | |

| Name and Title | Title |  |
| --- | --- | --- |
| Na Young Lee | Co-president | Summary of the Conference |
|  |  | Summary of the Conference |
| **Lydie Evrard**  Deputy Director General  and Head of the Department of Nuclear Safety and Security | IAEA | Closing Remarks |

# SCHEDULE OF SIDE EVENTS

Tuesday, 20 June 2023

|  |  |
| --- | --- |
| 12:45–13:45 | Title (SE 2.1)  *Organized by Xxx*  The safety and security of ….  (Board Room A) |

OTHER SIDE EVENTS

# IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

* IAEA Nuclear Security Series No. 20 (2013) Nuclear Security Fundamentals Objective and Essential Elements of a State's Nuclear Security Regime
* IAEA Nuclear Security Series No. 14 (2011) Nuclear Security Recommendations on Radioactive Material and Associated Facilities
* IAEA Nuclear Security Series No.15 (2011) Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control
* NSS23-G, NSS33-T, NSS 42-G, SSG-39, TDL 005, 006, 011,

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# PUBLICATIONS

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# FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

**2023**

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