

**IAEA International Conference on**  
**Computer Security**  
**in a Nuclear World:**  
**Expert Discussion**  
**and Exchange**

**1-5 June 2015**  
**Vienna, Austria**

**Programme**

## Introduction

The objective of the Division of Nuclear Security as stated in the Nuclear Security Plan for 2014–2017 is to contribute to global efforts to achieve effective security wherever nuclear and other radioactive material is in use, storage and/or transport, and of associated facilities by supporting States, upon request, in their efforts to meet their national responsibilities and international obligations, to reduce risks and to respond appropriately to threats.

The objective of the International Conference on Computer Security in a Nuclear World: Expert Discussion and Exchange is to provide forum to foster dialogue, exchange information and promote cooperation with IAEA stakeholders within nuclear security on the topic of computer security. This is the first such conference dedicated to the topic of computer security in a nuclear context that the IAEA has ever held.

## Registration

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

The Registration Desk and the Conference Secretariat in MOE67 will be staffed throughout the conference and our colleagues there will be happy to assist you.

## Conference Materials

**Conference app.** The conference is accessible via a mobile application (app) downloadable from Google Play and the iTunes Store. Search for “IAEA Conference”. Among other features, this app will allow you to put together your own schedule and view up-to-date event information. You can use the mobile app to submit your questions during the sessions if you wish to do so and provide us with feedback using the evaluation form towards the end of the conference. If you have questions or need assistance, please contact the Registration Desk.

**NUSEC Portal.** The conference schedule, keynote speaker profiles, and conference abstracts are also available on the IAEA’s Nuclear Security Information Portal (NUSEC). 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 also be posted on NUSEC. Please visit <https://nusec.iaea.org> for access and new member registration.

Note The Book of Abstracts can only be downloaded via the NUSEC conference site.

## The Division of Nuclear Security’s Information and Computer Security Programme

The IAEA has an integrated approach in place to help States establish an effective and sustainable national nuclear security regime, and it also plays a central role in coordinating international cooperating in nuclear security. The activities provided, upon request, by the IAEA Division of Nuclear Security to support Member States in the development of their computer security programme development include:

- The development of guidance documents as part of the IAEA Nuclear Security Series or, where an urgent need is identified, interim ‘guidance’ (i.e. IAEA Technical Documents (TECDOCs) outside the IAEA Nuclear Security Series;
- Advisory support within the context of a specialized Information and Computer Security Module in the International Physical Protection Advisory Service (IPPAS) missions;
- Regional, national, and professional development training courses;
- Support of national and international exercises;
- Providing the NUSEC Cyber Security User Group web-portal for information exchange; and
- Conducting expert meetings, technical information exchange forums, and outreach activities.

For additional information regarding these activities please contact Mr. Donald Dudenhoeffer ([D.Dudenhoeffer@iaea.org](mailto:D.Dudenhoeffer@iaea.org)) or the Division of Nuclear Security.

## Conference Overview

Monday, Tuesday, and Wednesday will commence with plenary sessions involving national and international leaders and expert discussion.

Technical sessions will commence on Tuesday afternoon. There will be four parallel technical sessions from Tuesday afternoon through to Thursday afternoon, and three parallel technical sessions on Friday morning. Sessions will take place in Room B/M1, Board Room A, Room M2 and the Press Room.

## Computer Security Technical Demonstration

During Monday afternoon, an international group of experts will present a scenario and computer security demonstration. The purpose of the demonstration is to promote awareness of cyber-attack scenarios, as well as to set the stage for discussions during the conference.

## Briefing Meetings

Briefing meetings will be held for presenters, chairs, rapporteurs, and session technical officers.

Presenters, who have questions regarding the uploading of their presentation and/or need assistance related to their briefing session, should contact the Registration Desk.

## Discussions

All sessions are being recorded. Anyone who wishes to take the floor, e.g. during question periods 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 and 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.

## Poster Presentations

This conference features digital poster presentations called e-posters. After introducing their poster presentations briefly in the Conference Room, the Chairperson will direct the session audience to the e-poster stations where the individual poster presentations will be held.

We kindly ask e-poster presenters to make use of the preview centre on the ground floor 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. Further, presenters should attend the pre-session briefings on the day of your respective e-poster session.

## Refreshments

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

All hosted coffee/tea breaks will be held on the ground, first, and second floors of the M Building. Please take the time to visit and talk with our exhibitors.

## Internet Access

Wireless access to the Internet is available throughout the M Building, no password is needed.

Two Internet corners are located on the ground floor.

## Bank and Post Office

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

## Conference:

President: Jazi Eko Istiyanto  
Chairman of the Nuclear  
Regulatory Agency,  
BAPETEN  
Indonesia

## IAEA Secretariat:

Scientific Secretary: Donald D. Dudenhoeffer  
Scientific and  
Administrative  
Support: Michael T. Rowland  
Sanjay Kumar. Parulkar  
Bidan Zhu  
Jose Bay-Sebastia  
Camilla Semper  
Magdalena Skrzypczyk  
Conference Organizer: Julie Zellinger  
Martina Khaelss

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## Location of the Conference:

International Atomic Energy Agency  
Vienna International Centre (VIC)  
"M" Building  
Wagramer Straße 5  
A-1400 Vienna, Austria

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**Working Language:** English

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

## Programme Committee

### Chair

T. Wiander Finland

### Co-Chair

P. Ludovic France

C. Terrado Argentina

R. Busquim e Silva Brazil

S. Spassov Bulgaria

H. Sallam Egypt

J. Trolle France

M. Caspers Germany

M. M. Kulkarni India

B. Aji Indonesia

J. Hamano Japan

I. Masahiro Japan

Z. Baig Pakistan

E. Yakovlev Russian Federation

K. Sekgaphane South Africa

H. Al Zaabi United Arab Emirates

R. Anderson United States of America

B. Stacey United States of America

W. Jones United States of America

J. Bouard IEC

V. Veiderpass INTERPOL

P. Maloor ITU

F. Bosco UNICRI

## TIMETABLE

### Sunday, 31 May 2015

15:00 – 19:00 Registration Checkpoint 1

16:30 – 18:30 Welcome Reception

### Monday, 01 June 2015

08:00 Registration Checkpoint 1

10:00 – 11:30 Opening Session Opening Remarks  
1A1  
(Conference Room  
B/M1)

11:30 – 13:00 Lunch Break

13:00 – 14:30 Keynote 1B1 National Perspective  
(Conference Room  
B/M1)

14:30 – 15:00 Coffee/Tea Break

15:00 – 16:30 Keynote 1C1 National and Regional  
Perspectives  
(Conference Room  
B/M1)

16:30 – 16:45 Break Demonstration Setup

16:45 – 18:15 Computer Security  
Demonstration  
1D1  
(Conference Room  
B/M1)

18:15 – 20:15 Welcome Reception

### Tuesday, 02 June 2015

09:00 – 10:40 Keynote 2A1 Addressing the Threat  
(Conference Room (Research and Regulation)  
B/M1)

10:40 – 11:00 Coffee/Tea Break

11:00 – 12:40 Keynote 2B1 Cyber Threat from a National  
View  
(Conference Room  
B/M1)

12:40 – 14:00 Lunch Break

14:00 – 15:40 Keynote 2C1 Trends in Cyber Attack and  
Defence  
(Conference Room  
B/M1)

15:40 – 16:00	Coffee/Tea Break		14:00 – 15:40	Technical Session 3C2 (Board Room A)	Cyber Trends and the Possible Impact on Nuclear Security
16:00 – 18:00	Technical Session 2D1 (Conference Room B/M1)	Cyber Threat Considerations in Developing a Design Basis Threat (DBT)	14:00 – 15:40	Technical Session 3C3 (Conference Room M2)	Computer Security Considerations for Safeguards I
16:00 – 18:00	Technical Session 2D2 (Board Room A)	Computer Security Culture	14:00 – 15:40	Technical Session 3C4 (Press Room)	Nuclear Security Regulatory Approaches to Information and Computer Security II
16:00 – 18:00	Technical Session 2D3 (Conference Room M2)	Computer Security and System Design for Systems at Nuclear Facilities I	15:40 – 16:00	Poster Session II	Coffee/Tea Break
16:00 – 18:00	Technical Session 2D4 (Press Room)	The Safety and Security Interface	16:00 – 18:00	Technical Session 3D1 (Conference Room B/M1)	Computer Security Management in Nuclear Security III
<b>Wednesday, 03 June 2015</b>			16:00 – 18:00	Technical Session 3D2 (Board Room A)	Scenario-Based Panel Discussion: Emerging Nexus of Cyber and Nuclear Security Policy
09:00 – 10:40	Keynote	Industry Experiences and Practices	16:00 – 18:00	Technical Session 3D3 (Conference Room M2)	Computer Security Considerations for Safeguards II
10:40 – 11:00	Poster Session I	Coffee/Tea Break	16:00 – 18:00	Technical Session 3D4 (Press Room)	National Experiences in Implementing Computer Security in Nuclear I
11:00 – 12:40	Technical Session 3B1 (Conference Room B/M1)	Computer Security Management in Nuclear Security I	<b>Thursday, 04 June 2015</b>		
11:00 – 12:40	Technical Session 3B2 (Board Room A)	Computer Security Threat Analysis	09:00 – 10:40	Technical Session 4A1 (Conference Room B/M1)	Conducting Computer Security Assurance Activities I
11:00 – 12:40	Technical Session 3B3 (Conference Room M2)	Computer Security and System Design for Systems at Nuclear Facilities II	09:00 – 10:40	Technical Session 4A2 (Board Room A)	Operator Experience in Implementing Computer Security I
11:00 – 12:40	Technical Session 3B4 (Press Room)	Nuclear Security Regulatory Approaches to Information and Computer Security I	09:00 – 10:40	Technical Session 4A3 (Conference Room M2)	Computer Security for I&C Systems I
12:40 – 14:00	Lunch Break		09:00 – 10:40	Technical Session 4A4 (Press Room)	National Experiences in Implementing Computer Security in Nuclear II
14:00 – 15:40	Technical Session 3C1 (Conference Room B/M1)	Computer Security Management in Nuclear Security II			

10:40 – 11:00	Poster Session III	Coffee/Tea Break	16:00 – 18:00	Technical Session 4D3 (Conference Room M2)	Computer Security for Physical Protection Systems
11:00 – 12:40	Technical Session 4B1 (Conference Room B/M1)	Conducting Computer Security Assurance Activities II	16:00 – 18:00	Technical Session 4D4 (Press Room)	Technical Talk on Computer Security Issues for I&C
11:00 – 12:40	Technical Session 4B2 (Board Room A)	Operator Experience in Implementing Computer Security II	<b>Friday, 05 June 2015</b>		
11:00 – 12:40	Technical Session 4B3 (Conference Room M2)	Computer Security for I&C Systems II	09:00 – 10:40	Technical Session 5A1 (Conference Room B/M1)	International and Legal Frameworks for Addressing Computer Security in Nuclear Security Regimes
11:00 – 12:40	Technical Session 4B4 (Press Room)	Designing for Security and Defence in Depth	09:00 – 10:40	Technical Session 5A2 (Board Room A)	Building Computer Security Capacity for Nuclear Security
12:40 – 14:00	Lunch Break		09:00 – 10:40	Technical Session 5A3 (Conference Room M2)	Computer Security for I&C Systems III
14:00 – 15:40	Technical Session 4C1 (Conference Room B/M1)	Conducting Computer Security Assurance Activities III	10:40 – 11:00	Coffee/Tea Break	
14:00 – 15:40	Technical Session 4C2 (Board Room A)	The Cyber Insider Threat	11:00 – 12:40	Technical Session 5B1 (Conference Room B/M1)	Role of IAEA Guidance and International Standards in Computer Security
14:00 – 15:40	Technical Session 4C3 (Conference Room M2)	Computer Security Considerations for Research Reactors	11:00 – 12:40	Technical Session 5B2 (Board Room A)	Education, Training and Knowledge Management for Computer Security II
14:00 – 15:40	Technical Session 4C4 (Press Room)	Secure Software Development	11:00 – 12:40	Technical Session 5B3 (Conference Room M2)	Conducting Computer Security Incident Response, Forensic and Crime Scene Investigation for Industrial Control and I&C Systems
15:40 – 16:00	Poster Session IV	Coffee/Tea Break	12:40 – 13:00	Coffee/Tea Break	
16:00 – 18:00	Technical Session 4D1 (Conference Room B/M1)	Implementation of the Graded Approach	13:00 – 13:30	Closing Session 5C1 (Conference Room B/M1)	Closing Ceremonies
16:00 – 18:00	Technical Session 4D2 (Board Room A)	Education, Training and Knowledge Management for Computer Security I	<b>Commercial exhibits will be shown in the common area on the first and second floors of the M building from Monday to Friday, 1-5 June 2015.</b>		

## **Sunday, 31 May 2015**

- 15:00 – 19:00** Registration and Distribution of Conference Materials
- 16:30 – 18:30** Welcome Reception

## **Monday, 1 June 2015**

- 08:00 – 10:00** Registration and Distribution of Conference Materials (Continued)

- 10:00 – 11:30** **Opening Session: 1A1**  
*(Conference Room B/M1)*

**Chairperson:** *J. E. Istiyanto, Indonesia*

**Jazi Eko Istiyanto, Indonesia**  
**Conference President**  
Chairman of the Nuclear Regulatory Agency,  
Republic of Indonesia, BAPETEN

*Opening Remarks*

**Yukiya Amano, IAEA**  
Director General

*Opening Statement*

**Brahima Sanou, ITU**  
Director, Telecommunication Development  
Bureau (BDT)  
International Telecommunication Union

*Introductory Remarks by ITU*

**Leif Villadsen, UNICRI**  
Deputy Director  
United Nations Interregional Crime and  
Justice Research Institute

*Introductory Remarks by UNICRI*

**Frans Vreeswijk, IEC**  
General Secretary and CEO  
International Electrotechnical Commission

*Introductory Remarks by IEC*

**Khammar Mrabit, IAEA**  
Director, Division of Nuclear Security

*Introductory Remarks by NSNS*

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- 11:30 – 13:00** Lunch Break
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## **Monday, 1 June 2015**

**13:00 – 14:30**     **Main Session: 1B1**  
**Keynote – National Perspective**  
*(Conference Room B/M1)*

**Chairpersons:**    **B. Stauffer, Switzerland**  
**R. Awad, Canada**

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>
13:00 – 13:20	<b>Ms Anne Harrington,</b> <b>United States of America</b> Deputy Administrator for Defense Nuclear Nonproliferation National Nuclear Security Administration
13:20 – 13:40	<b>Mr Axel Vorwerk, Germany</b> Deputy Director General Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Head of Safety of Nuclear Installations
13:40 – 14:00	<b>Mr Guanghui Liu, China</b> Deputy Division Director of the Department of International Cooperation China Atomic Energy Authority
14:00 – 14:30	<b>Question Period</b>
<b>14:30 – 15:00</b>	Coffee/Tea Break

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## **Monday, 1 June 2015**

**15:00 – 16:30**     **Main Session: 1C1**  
**Keynote – National and Regional Perspectives**  
**(Conference Room B/M1)**

**Chairpersons:**    **S. Lin, China**  
                          **L. Olmedo, France**

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>
15:00 – 15:20	<b>Mr Min Baek, Korea, Republic of</b> Director General of Radiation Emergency Bureau Nuclear Safety and Security Commission
15:20 – 15:40	<b>Mr Vladimir Kuchinov, Russian Federation</b> Senior Advisor to the Director General The State Atomic Energy Corporation ROSATOM
15:40 – 16:00	<b>Mr William Ostendorff, United States of America</b> Commissioner U.S. Nuclear Regulatory Commission (NRC)
16:00 – 16:30	<b>Question Period</b>
<b>16:30 – 16:45</b>	Break
	Demonstration Setup

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## **Monday, 1 June 2015**

**16:45 – 18:15**     **Main Session: 1D1**  
**Computer Security Demonstration**  
**(Conference Room B/M1)**

**Chairperson:**     **TBD**

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>	
16:45 – 17:05	<b>Mr Stephan Lechner, EC</b> Director European Commission, Joint Research Centre, Institute for the Protection and the Security of the Citizen	
17:05 – 17:10	<b>Mr Donald Dudenhoeffer, IAEA</b> Scientific Secretary	<i>Computer Security Demonstration Introduction</i>
17:10 – 18:15	<b>Mr Mark Fabro, Canada</b> President and Chief Security Scientist Lofty Perch Inc.	<i>Computer Security Demonstration</i> <b>Demonstration Team Members:</b> <i>US Department of Energy, United States of America</i> <i>Codonomicon, Finland</i> <i>Context Information Security, United Kingdom</i> <i>Lofty Perch, Canada</i>
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<b>18:15 – 20:15</b>	Welcome Reception	

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## **Tuesday, 2 June 2015**

**09:00 – 10:40**     **Main Session: 2A1**

**Keynote – Addressing the Threat  
(Research and Regulation)**

*(Conference Room B/M1)*

**Chairpersons:**     ***F. Suba, Hungary***

***T. Akbaş, Turkey***

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>
09:00 – 09:20	<b>Mr Guillaume Poupard, France</b> Director General National Cybersecurity Agency (ANSSI)
09:20 – 09:40	<b>Mr Walid Ibrahim Zidan Mohamed, Egypt</b> Vice Chairman Egyptian Nuclear and Radiological Regulatory Authority (ENRRA) (Egypt)
09:40 – 10:00	<b>Mr R.S. Mundada, India</b> Head of Computer Division Bhabha Atomic Research Centre (BARC)
10:00 – 10:40	<b><i>Panel Discussion</i></b>
<b>10:40 – 11:00</b>	Coffee/Tea Break

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## ***Tuesday, 2 June 2015***

**11:00 – 12:40**      **Main Session: 2B1**  
**Keynote - Cyber Threat from a National View**  
*(Conference Room B/M1)*

**Chairpersons:**    ***J. Vaclav, Slovak Republic***  
***M. Koh, Korea, Republic of***

### **INVITED SPEAKERS**

<i>Time</i>	<i>Name of Speaker</i>
11:00 – 11:20	<b>Mr Toshio Nawa, Japan</b> Cyber Defense Institute, Inc.
11:20 – 11:40	<b>Mr Vangelis Ouzounis, ENISA</b> Head of Resilience and Critical Information Infrastructure Protection (CIIP) Unit European Union Agency for Network and Information Security (ENISA)
11:40 – 12:00	<b>Mr Gary Gagnon, United States of America</b> Senior Vice President and Chief Security Officer (CSO) MITRE Corporation
12:00 – 12:20	<b>Mr Uwe Jendricke, Germany</b> German Federal Office for Information Security (BSI)
12:20 – 12:40	<b><i>Question Period</i></b>
<hr/> <b>12:40 – 14:00</b>	<hr/> Lunch Break <hr/>

## **Tuesday, 2 June 2015**

**14:00 – 15:40**     **Main Session: 2C1**  
**Keynote – Trends in Cyber Attack and  
Defence (2C1)**  
*(Conference Room B/M1)*

**Chairpersons:**    **W. Voss, Germany**  
**M. Assante, United States of America**

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>
14:00 – 14:20	<b>Mr Mikko Hypponen, Finland</b> Chief Research Officer F-Secure
14:20 – 14:40	<b>Mr Craig Rosewarne, South Africa</b> Managing Director Wolfpack Information Risk
14:40 – 15:00	<b>Mr John Stewart, United States of America</b> Senior Vice President, Chief Security Officer CISCO
15:00 – 15:20	<b>Mr Mark Raeburn, United Kingdom</b> Chief Executive Officer Context Information Security Ltd
15:20 – 15:40	<b>Question Period</b>
<b>15:40 – 16:00</b>	Coffee/Tea Break

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## Tuesday, 2 June 2015

**16:00 – 18:00**      **Technical Session: 2D1**  
**Cyber Threat Considerations in**  
**Developing a Design Basis Threat (DBT)**  
*(Conference Room B/M1)*

**Chairpersons:**    *A. Elliott, Canada*  
                          *I. Gorinov, Bulgaria*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	188	<b>S. Gaycken</b>	Germany	Cyber-Nuclear Warfare and Appropriate Prevention
16:20 – 16:40	074	<b>M. Schraver</b>	Netherlands	Dutch Approach on Cyber Security DBT: Experiences and Challenges in Setting Up and Implementing a Cyber Security DBT
16:40 – 17:00	116	<b>F. Suba</b>	Hungary	Cybersecurity and DBT – The Hungarian Approach
17:00 – 17:20	096	<b>A. Keizer</b>	Netherlands	Experience in Implementing a Cyber DBT at a Nuclear Facility
17:20 – 17:40	145	<b>A. Cavina</b>	Italy	Translating the DBT: A Comparative Analysis
17:40 – 18:00		<b>Question Period</b>		

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**18:00**                  Adjourn

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## **Tuesday, 2 June 2015**

**16:00 – 18:00**      **Technical Session: 2D2**  
**Computer Security Culture**  
**(Conference Room BRA)**

**Chairpersons:**    **K. Sekgaphane, South Africa**  
                          **M. Corcoran, United Kingdom**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	005	<b>C. Speicher</b>	Germany	The Importance of Security Culture for Computer Security Effectiveness
16:20 – 16:40	142	<b>S. Tomažic</b>	Slovenia	Slovenian Case Study on Building and Sustaining Computer Security Culture
16:40 – 17:00	007	<b>H. Sallam</b>	Egypt	Human Factors Enhancement in Cyber Security
17:00 – 17:20	034	<b>J. LeClair</b>	United States of America	Social Engineering: A Threat to the Nuclear Industry
17:20 – 17:40	017	<b>V. Lucic</b>	Serbia	Strengthening Cybersecurity Culture within SRPNA
17:40 – 18:00		<b>Question Period</b>		
<b>18:00</b>	Adjourn			

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## **Tuesday, 2 June 2015**

**16:00 – 18:00**      **Technical Session: 2D3**  
**Computer Security and System Design**  
**for Systems at Nuclear Facilities I**  
*(Conference Room M2)*

**Chairpersons:**    **Y.S. Mayya, India**  
                          **R. Kocnar, Slovenia**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	143	<b>J. Vaclav</b>	Slovak Republic	Cyber Security in Slovak Republic
16:20 – 16:40	031	<b>M. Awan</b>	Pakistan	Determinants of Effective Cyber Security for a Nuclear Facility
16:40 – 17:00	114	<b>R. Valkama</b>	Finland	Transition into Digital Industrial Automation and Control Systems within the Nuclear Regime
17:00 – 17:20	056	<b>L. Dawson</b>	United States of America	Methodology for Prioritizing Cyber-Vulnerable Assets in Nuclear Power Representative System Architecture
17:20 – 17:40	183	<b>H. Waka</b>	Japan	The Threats and Solutions for Industrial Control System Security
17:40 – 18:00		<b>Question Period</b>		

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**18:00**                  Adjourn

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## Tuesday, 2 June 2015

**16:00 – 18:00**      **Technical Session: 2D4**  
**The Safety and Security Interface**  
**(Conference Room PR)**

**Chairpersons:**    **J. Bouard, IEC**  
                          **B. Siwila, Zambia**

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	073	<b>T. Poussier</b>	France	Cybersecurity Aspects of a Safety Display System
16:20 – 16:40	028	<b>D. Chumak</b>	Ukraine	Computer Security at Nuclear Facilities in Ukraine: Safety and Security Interface Considerations
16:40 – 17:00	166	<b>M. Coden</b>	United States of America	Cyber Safety: A Systems Thinking and Systems Theory Approach to Managing Cyber Security Risks
17:00 – 17:20	193	<b>Z. Ma</b>	Germany	Combining Safety and Security Analysis and Development for Cyber-Physical Systems
17:20 – 18:00		<b>Panel Discussion</b>		
<b>18:00</b>	Adjourn			

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## **Wednesday, 3 June 2015**

**09:00 – 10:40**     **Main Session: 3A1**  
**Keynote – Industry Experiences and Practices**  
*(Conference Room B/M1)*

**Chairpersons:**    **J. Larsen, United States of America**  
**J. Holappa, Finland**

### **INVITED SPEAKERS**

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<i>Time</i>	<i>Name of Speaker</i>
09:00 – 09:20	<b>Mr Noboru Nakatani, INTERPOL</b> Executive Director INTERPOL Global Complex for Innovation
09:20 – 09:40	<b>Mr Richard Danzig, United States of America</b> Director Center for a New American Security
09:40 – 10:00	<b>Mr Gahm Yong Kim, Korea, Republic of</b> Vice President of Information Technology Office Korea Hydro & Nuclear Power Co., LTD
10:00 – 10:20	<b>Mr Steve Durbin, United Kingdom</b> Managing Director Information Security Forum (ISF)
10:20 – 10:40	<b>Question Period</b>
<b>10:40 – 11:00</b>	Coffee/Tea Break

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*Poster Viewing Session I*

## Wednesday, 3 June 2015

10:40 – 11:00 Poster Session I

(Poster Area – Outside of BRA)

### POSTER PRESENTATIONS

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<i>Poster Station</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1	010	<b>B. Kaboro</b>	Kenya	Kenya's Perspective on Computer Security as an Essential Element in Nuclear Security
2	024	<b>M. Firstenberg</b>	United States of America	Examination of the Cybersecurity Effects of Anti-Virus Maintenance solutions
3	026	<b>L. Nogueron</b>	Argentina	Cyber Security During the Life Cycle of Digital Information Projects
4	037	<b>A. Al-Sudani</b>	Iraq	Assessment of Nuclear Security Regime In Iraq
5	033	<b>B. Munaki</b>	Zimbabwe	Cyber Threats Knowledge-Base for Nuclear Security using Delphi Technique: Case for Zimbabwe
6	097	<b>R. Arias</b>	Mexico	Focus on Security Measures in Internet Browsing in a Research Center

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## Wednesday, 3 June 2015

**11:00 – 12:40**      **Technical Session: 3B1**  
**Computer Security Management in  
Nuclear Security I**  
*(Conference Room B/M1)*

**Chairpersons:**    *E. Gaytán Gallardo, Mexico*  
*Y. Xintavelonis, Greece*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	070	<b>S. Hashima</b>	Egypt	Interference Management of Wireless Networks in a Nuclear Facility
11:20 – 11:40	011	<b>H. Schugt</b>	Germany	Integrated Approach as a Success Factor of IT Security Management Practical Experiences of an NPP
11:40 – 12:00	098	<b>G. Kao</b>	United States of America	Supply Chain Security Decision Analytics
12:00 – 12:20	196	<b>M. Coden</b>	United States of America	Patch Management in the Industrial Automation and Control Systems Environment: Introduction to ISA/IEC-TR62443-2-3
12:20 – 12:40		<b>Question Period</b>		

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**12:40 – 14:00**      Lunch Break

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## **Wednesday, 3 June 2015**

**11:00 – 12:40**      **Technical Session: 3B2**  
**Computer Security Threat Analysis**  
**(Conference Room BRA)**

**Chairpersons:**    **L. Dandurand , ITU**  
**I. Shin, Korea, Republic of**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	081	<b>C. Glantz</b>	United States of America	Assessing Computer Security Risks at a Nuclear Facility– A Semi-Quantitative Approach
11:20 – 11:40	172	<b>P. Kleissner</b>	Austria	Internet Attacks Against Nuclear Power Plants
11:40 – 12:00	054	<b>F. McCrory</b>	United States of America	An Adversary's View of Your Digital System
12:00 – 12:20	042	<b>A. Kileo</b>	United Republic of Tanzania	The Trend of Cyber-Attacks and the Future of Security in Nuclear Technology Industry for Developing Countries
12:20 – 12:40	077	<b>J. Chugg</b>	United States of America	Vehicle (In)Security

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**12:40 – 14:00**      Lunch Break

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## Wednesday, 3 June 2015

11:00 – 12:40 Technical Session: 3B3

**Computer Security and System Design  
for Systems at Nuclear Facilities II**

*(Conference Room M2)*

**Chairpersons:** *S. Hilts, Canada*

*J. Sedlacek, Czech Republic*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	186	<b>I. Buffey</b>	United Kingdom	Taking a Holistic View of Cyber Security Risks in the Nuclear Industry
11:20 – 11:40	053	<b>A. Buzdugan</b>	Moldova, Republic of	Information Security Development in the Moldovan Nuclear and Radiological Infrastructure
11:40 – 12:00	135	<b>R. Anderson</b>	United States of America	Cyber Informed Engineering: The Need for a New Risk Informed and Design Methodology
12:00 – 12:20	146	<b>A. Chaudhry</b>	Pakistan	An Intelligent and Hierarchical Intrusion Detection System Using Random Forest and One-Class Pyramid Neural Network
12:20 – 12:40		<b>Question Period</b>		

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**12:40 – 14:00** Lunch Break

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## **Wednesday, 3 June 2015**

**11:00 – 12:40**      **Technical Session: 3B4**

**Nuclear Security Regulatory Approaches  
to Information and Computer Security I**

*(Conference Room PR)*

**Chairpersons:**    *J. Hamano, Japan*

*M. Assaf, Jordan*

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	066	<b>P. Stoutland</b>	NTI	Strengthening Cyber Security at Nuclear Facilities
11:20 – 11:40	018	<b>M. Tronea</b>	Romania	Regulatory Framework for the Protection of Nuclear Installations Against Cyber Threats
11:40 – 12:00	046	<b>T. Parkhouse</b>	United Kingdom	UK Paper on Strategy for Dealing with Malicious Cyber Capabilities
12:00 – 12:40		<b>Panel Discussion</b>		

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**12:40 – 14:00**      Lunch Break

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## **Wednesday, 3 June 2015**

**14:00 – 15:40**      **Technical Session: 3C1**  
**Computer Security Management in**  
**Nuclear Security II**  
*(Conference Room B/M1)*

**Chairpersons:**    **A. Awan, Pakistan**  
                          **R. Busquim e Silva, Brazil**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	168	<b>S. Smirnov</b>	Russian Federation	Information Security in On-line Monitoring Systems
14:20 – 14:40	012	<b>T. Wheeler</b>	United States of America	Assessment of the Utility and Efficacy of Hazard Analysis Methods for the Prioritization of Critical Digital Assets for Nuclear Power Cyber Security
14:40 – 15:00	203	<b>M. Baldit</b>	France	Development and Implementation of a Testing Platform Dedicated to the Cybersecurity of SCADA (Supervisory Control and Data Acquisition) or ICS (Industrial Control System)
15:00 – 15:20	165	<b>M. Coden</b>	United States of America	Secure Remote Cyber Hardening of Industrial Control Systems in Nuclear Facilities in Compliance with International Standards
15:20 – 15:40	061	<b>D. Blair</b>	United States of America	Supply Chain Risk Management: The Challenge in a Digital World
<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session II</i>	

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## Wednesday, 3 June 2015

**14:00 – 15:40**      **Technical Session: 3C3**  
**Computer Security Considerations for Safeguards I**  
*(Conference Room M2)*

**Chairpersons:**    **P. Szymanski, EC**  
**TBD**

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:10		<b>T. Varjoranta</b> Deputy Director General Department of Safeguards (SG)	IAEA	Technical Session – Opening Department of Safeguards
14:10 – 14:20		<b>D. Flory</b> Deputy Director General Department of Safety and Security (NS)	IAEA	Technical Session – Opening Department of Safety and Security
14:20 – 14:40	059	<b>J. Stronkhorst</b>	EC	Preparedness for Future IT Security Threats at EURATOM Safeguards Data Acquisition Networks
14:40 – 15:00	128	<b>T. Wiander</b>	Finland	Computer Security and Safeguards
15:00 – 15:20	089	<b>J. Doehle</b>	United States of America	Computer Security in an Increasingly Mobile World: Recommendations for the Nuclear Community
15:20 – 15:40		<b>Question Period</b>		
<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session II</i>	

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## **Wednesday, 3 June 2015**

**14:00 – 15:40**      **Technical Session: 3C4**

**Nuclear Security Regulatory Approaches  
to Information and Computer Security II**

*(Conference Room PR)*

**Chairpersons:**    **Z. Baig, Pakistan**

**B. Westreich, United States of America**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	058	<b>C. H. Jung</b>	Canada	Overview of Canadian Regulatory Framework for Cyber Security for Nuclear Facilities
14:20 – 14:40	158	<b>M. Åkerholm</b>	Sweden	The Making of a New and Modern Information Security Regulation
14:40 – 15:00	015	<b>M. Ridwan</b>	Indonesia	Introducing Computer Security into Nuclear Security Framework in Indonesia: A Regulatory Body Perspective
15:00 – 15:20	104	<b>M. Imase</b>	Japan	Overview of the Computer Security Regulation for Nuclear Facilities in Japan
15:20 – 15:40		<b>Question Period</b>		
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<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session II</i>	

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## Wednesday, 3 June 2015

15:40 – 16:00 Poster Session II

(Poster Area – Outside of BRA)

### POSTER PRESENTATIONS

<i>Poster Station</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1	088	<b>E. Mkomwa</b>	Malawi	Nuclear Security and Information Management System in Malawi: Achievements and Challenges
2	079	<b>S. Godwin</b>	United States of America	Threat Awareness and Sharing: A Model for Shifting Advantage to the Defender
3	130	<b>G. Sail N. Batmaz</b>	Turkey	Software Security Concepts in Cekmece Nuclear Research and Training Center
4	192	<b>P. Sitbon</b>	France	Reconciling Security and Operability for Industrial Systems with Strict Segregation
5	202	<b>Y. Cheng</b>	China	Risk Assessment for Information Security in Nuclear Power Plants
6	107	<b>P. Gomiz</b>	Argentina	Computer Security applied to a Nuclear Waste Management System

## Wednesday, 3 June 2015

**16:00 – 18:00**      **Technical Session: 3D1**  
**Computer Security Management in  
Nuclear Security III**  
*(Conference Room B/M1)*

**Chairpersons:**    **G. Landine, United States of America**  
**TBD**

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	100	<b>E. Gaytán Gallardo</b>	Mexico	Computer Security in the Development of New systems for Instrumentation and Control
16:20 – 16:40	050	<b>B. Aji</b>	Indonesia	Applicability of Computer Security to Radioactive Material Uses and Control: Indonesia Case Study
16:40 – 17:00	071	<b>R. Hoffman</b>	United States of America	Team Composition and Management Considerations to Address the Evolving Threat
17:00 – 17:20	022	<b>J. M'boliguipa</b>	Central African Republic	Protection and Transmission of Data in the form of Image "Zero" on a Computer Network within the Framework of Nuclear Security
17:20 – 17:40	083	<b>C. Glantz</b>	United States of America	Cybersecurity Procurement Language for Energy Delivery Systems: Application to Nuclear Facilities
17:40 – 18:00		<b>Question Period</b>		
<b>18:00</b>	Adjourn			

## Wednesday, 3 June 2015

16:00 – 18:00 Technical Session: 3D2

Scenario-Based Panel Discussion:  
Emerging Nexus of Cyber and Nuclear  
Security Policy

(Conference Room BRA)

Chairpersons: C. MacLeod, United Kingdom

J. Vrijland, Netherlands

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 18:00		<b>Panel Discussion</b>		
18:00	Adjourn			

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## **Wednesday, 3 June 2015**

**16:00 – 18:00**      **Technical Session: 3D3**  
**Computer Security Considerations for Safeguards II**  
*(Conference Room M2)*

**Chairpersons:**    *T. Wiander, Finland*  
*P. Gutmann, New Zealand*

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	201	<b>C. Liguori</b>	IAEA	Security Aspects in Safeguards Equipment Implementation
16:20 – 18:00		<b>Panel Discussion</b>		

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**18:00**              Adjourn

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## Wednesday, 3 June 2015

**16:00 – 18:00**      **Technical Session: 3D4**  
**National Experiences in Implementing  
Computer Security in Nuclear I**  
*(Conference Room PR)*

**Chairpersons:**    **M. Tronea, Romania**  
**TBD**

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	068	<b>S. Cui</b>	China	The Administration of Computer and Information Security in China's Nuclear Power Plant
16:20 – 16:40	016	<b>A. Kuvshinnikov</b>	Belarus	Legislative and Regulatory Framework in the Field of Computer Security in the Republic of Belarus
16:40 – 17:00	151	<b>J. Sladek S. Hilts</b>	Canada	Canadian Nuclear Cyber Security Working Group
17:00 – 17:20	129	<b>D. Septikasari</b>	Indonesia	Implementing Cybersecurity Framework in Nuclear Energy Regulatory Agency of Indonesia (BAPETEN)
17:20 – 17:40	049	<b>M. Assaf</b>	Jordan	Ensuring Computer Security in a Nuclear Security Regime through Integration with Other Aspects of Nuclear Security
17:40 – 18:00		<b>Question Period</b>		
<b>18:00</b>	Adjourn			



## Thursday, 4 June 2015

**09:00 – 10:40**      **Technical Session: 4A1**  
**Conducting Computer Security**  
**Assurance Activities I**  
*(Conference Room B/M1)*

**Chairpersons:**    *D. Septikasari, Indonesia*  
                          *E. Shafei, Egypt*

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:20	072	<b>T. Nelson</b>	United States of America	Observed Cyber Vulnerabilities During On-site Assessments of US Industrial Facilities with Specific Focus on Nuclear Facilities
09:20 – 09:40	110	<b>J. G. Song</b>	Korea, Republic of	Design Concept of CSAMS (Cyber Security Assessment and Management System) for Digital Systems in Nuclear Facilities
09:40 – 10:00	069	<b>G. Joseph</b>	India	Secure Network Access System (SNAS) for Plant Network
10:00 – 10:20	044	<b>M. Hutle</b>	Germany	Vulnerability Analysis of Digital Instrumentation and Control Systems Important to Safety – a Methodical Approach
10:20 – 10:40	136	<b>J. Holappa</b>	Finland	Threat Based Computer Security Supervisory Oversight Process
<b>10:40 – 11:00</b>	Coffee/Tea Break			<i>Poster Viewing Session III</i>

## Thursday, 4 June 2015

09:00 – 10:40      Technical Session: 4A2  
Operator Experience in Implementing  
Computer Security I  
(Conference Room BRA)

Chairpersons:    *D. Popa Nemoiu, Romania*  
*T. Nystrom, Finland*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:40	163	<b>R. Brunner P. Hägler</b>	Switzerland	Cyber Security - Perspective of an Operator
09:40 – 10:00	152	<b>S. Hilts</b>	Canada	Operator Experience in Developing an Open-Source Based Cyber Threat-Risk Assessment
10:00 – 10:20	181	<b>R. Brunt</b>	WNA	Invited Presentation - World Nuclear Association (WNA) WG on Security of the International Fuel Cycle
10:20 – 10:40	095	<b>R. Howsley</b>	WINS	Contributing to the Professional Development of Personnel Accountable for Computer Security whilst Strengthening Synergies between Physical and Cyber Security Disciplines

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10:40 – 11:00      Coffee/Tea Break      *Poster Viewing Session III*

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## Thursday, 4 June 2015

09:00 – 10:40      **Technical Session: 4A3**  
**Computer Security for I&C Systems I**  
*(Conference Room M2)*

**Chairpersons:**    *R. Anderson, United States of America*  
*H. Schugt, Germany*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:20	048	<b>V. Promyslov</b>	IEC	Requirements to Formal Security Models for NPP I&C
09:20 – 09:40	159	<b>T. de Jesus</b>	Canada	Leveraging Determinism: "Fingerprinting" Industrial Control Systems(ICS) to Detect and Prevent Cyber Attacks
09:40 – 10:00	179	<b>V. Sklyar</b>	Ukraine	Security Case for FPGA-based I&C Systems
10:00 – 10:40		<b>Panel Discussion</b>		

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<b>10:40 – 11:00</b>	Coffee/Tea Break		<i>Poster Viewing Session III</i>	
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## Thursday, 4 June 2015

**09:00 – 10:40**      **Technical Session: 4A4**  
**National Experiences in Implementing**  
**Computer Security in Nuclear II**  
*(Conference Room PR)*

**Chairpersons:**    *M. M. Kulkarni, India*  
*N. Agbemava, Ghana*

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:20	075	<b>A. Lochthofen</b>	Germany	The German Guideline for the Protection of IT Systems in NPPs and the Assessment of Its Implementation
09:20 – 09:40	139	<b>K. Kwon</b>	Korea, Republic of	ROK's Regulatory Efforts to Cyber Security
09:40 – 10:00	105	<b>S. Mdoe</b>	United Republic of Tanzania	Tanzania: Cyber Laws and Considerations for Nuclear Security
10:00 – 10:20	153	<b>I. Pareja</b>	Spain	Computer Security Programmes at Licensed Facilities: Almaraz and Trillo NPPs Cybersecurity Program
10:20 – 10:40		<b>Question Period</b>		
<b>10:40 – 11:00</b>	Coffee/Tea Break		<i>Poster Viewing Session III</i>	

## Thursday, 4 June 2015

10:40 – 11:00 Poster Session III

(Poster Area – Outside of BRA)

### POSTER PRESENTATIONS

<i>Poster Station</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1	052	<b>G. Gluschke</b>	Germany	Developing an Exercise Platform for Educational Activities on Nuclear IT/Cyber Security
2	064	<b>N. Agbemava</b>	Ghana	Industrial Control System (ICS) And Cyber Security Program for Nuclear Facility Safeguards And Security
3	021	<b>T. Rager</b>	United States of America	Computer Security Considerations for Nuclear and Radioactive Materials during Storage and Transport - A Case Study
4	014	<b>M. Riasetiawan</b>	Indonesia	Secure by Design Approach on Data Management and Preservation for Scientific-Nuclear Data
5	085	<b>G. Landine</b>	United States of America	Lessons Learned from Establishing a Nuclear Facility Computer and Information Security Program
6	094	<b>J. Pérez</b>	Mexico	Cybersecurity in a Research Environment

## Thursday, 4 June 2015

**11:00 – 12:40**      **Technical Session: 4B1**  
**Conducting Computer Security Assurance Activities II**  
*(Conference Room B/M1)*

**Chairpersons:**    *Y. Reboul, France*  
                          *A. Humberto Águila Gaete, Chile*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	126	<b>I. Shin</b>	Korea, Republic of	Lessons Learned from ROK's Regulatory Activities on Nuclear Facilities Cyber Security
11:20 – 11:40	023	<b>M. Firstenberg</b>	United States of America	Analysis of the Capabilities of Cybersecurity Defences
11:40 – 12:00	112	<b>J. W. Lee</b>	Korea, Republic of	A Pilot Cyber Security Assessment of Nuclear Power Plant Based on Regulatory Requirements
12:00 – 12:20	084	<b>G. Landine</b>	United States of America	Enhancing Information Security Management Systems for Nuclear Facilities
12:20 – 12:40		<b>Question Period</b>		

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**12:40 – 14:00**      Lunch Break

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## Thursday, 4 June 2015

**11:00 – 12:40**      **Technical Session: 4B2**  
**Operator Experience in Implementing  
Computer Security II**  
*(Conference Room BRA)*

**Chairpersons:**    *R. Brunt, WNA*  
*A. Keizer, Netherlands*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	180	<b>A. Shahkarami</b>	NEI	Nuclear Industry Summit 2016: Cyber Security Working Group
11:20 – 11:40	189	<b>D. Fox</b>	United States of America	Experience in Conducting Facility and Organization – Wide Risk Assessments
11:40 – 12:00	164	<b>D. Popa-Nemoiu</b>	Romania	Cyber Security Plans for Major Automation Systems of Cernavoda NPP
12:00 – 12:20	185	<b>M. Gibson</b>	EPRI	Introduction to the EPRI Cyber Security Research Portfolio
12:20 – 12:40		<b>Question Period</b>		

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**12:40 – 14:00**      Lunch Break

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## Thursday, 4 June 2015

11:00 – 12:40      **Technical Session: 4B3**  
**Computer Security for I&C Systems II**  
*(Conference Room M2)*

**Chairpersons:**    *L. Pietre-Cambacedes, France*  
*C. Terrado, Argentina*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	008	<b>E. Quinn</b>	United States of America	A New International Standard on Cybersecurity for Nuclear Power Plants: IEC 62645 - Requirements for Security Programmes for Computer-Based Systems
11:20 – 11:40	144	<b>D. Nikolic</b>	The Republic of Serbia	Cyber Attacks on I&C systems of Critical Infrastructure: Review and Challenges
11:40 – 12:00	115	<b>P. Pederson</b>	United States of America	Lessons Learned in Applying the Robust ICS Planning and Evaluation (RIPE) Program to a Nuclear Power Plant
12:00 – 12:40		<b>Panel Discussion</b>		

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**12:40 – 14:00**      Lunch Break

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## Thursday, 4 June 2015

11:00 – 12:40      Technical Session: 4B4  
                          Designing for Security and Defense in  
                          Depth  
                          (Conference Room PR)

**Chairpersons:**    *C. Zeuren, Switzerland*  
                          *T. Parkhouse, United Kingdom*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	191	<b>G. Shannon</b>	IEEE	Avoiding Security Design Flaws in Software
11:20 – 11:40	019	<b>L. Mao</b>	China	Research on Cyber Security Isolation Strategy in Nuclear Power Plant
11:40 – 12:00	124	<b>M. Hewes</b>	Australia	Building and Breaking the Protection Provided by an Optical Data Diode Using Spare Parts
12:00 – 12:20	020	<b>M. M. Kulkarni</b>	India	Computer Security Considerations while Interconnecting the Diverse Systems in Nuclear Facility
12:20 – 12:40	045	<b>E. Marszal</b>	United States of America	Inherent Safety Against Cyber Attack for Process Facilities

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**12:40 – 14:00**      Lunch Break

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## Thursday, 4 June 2015

**14:00 – 15:40**      **Technical Session: 4C1**  
**Conducting Computer Security**  
**Assurance Activities III**  
*(Conference Room B/M1)*

**Chairpersons:**    *R. Hoffman, United States of America*  
*V. Lucic, The Republic of Serbia*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	150	<b>A. van der Weerd</b>	Netherlands	Creating an IT Vulnerability Scoring System for Nuclear Facilities
14:20 – 14:40	137	<b>J. Rodriguez</b>	United States of America	Understanding the Value of a Computer Emergency Response Capability for Nuclear Security
14:40 – 15:00	125	<b>A. Conjares</b>	Philippines	Level of Computer Security Awareness at the Philippine Nuclear Research Institute: An Assessment
15:00 – 15:20	141	<b>J. Sladek</b>	Canada	Patch Management for Industrial Computer Systems in Nuclear Facilities
15:20 – 15:40	132	<b>A. Takanen</b> <b>J. Seppälä</b>	Finland	Security Analysis of Various Industrial Devices
<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session IV</i>	

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## **Thursday, 4 June 2015**

**14:00 – 15:40**      **Technical Session: 4C2**  
**The Cyber Insider Threat**  
**(Conference Room BRA)**

**Chairpersons:**    **F. A. Mogami, Brazil**  
                          **N. Noro, Japan**

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	113	<b>M. Corcoran</b>	United Kingdom	The Insider Threat
14:20 – 14:40	167	<b>S. Zhurin</b>	Russian Federation	Countermeasures Against Cyber-Insiders at Nuclear Facilities
14:40 – 15:00	055	<b>M. Snell</b>	United States of America	The Treatment of Blended Attacks in Nuclear Security Effectiveness Assessments
15:00 – 15:40		<b>Panel Discussion</b>		
<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session IV</i>	

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## Thursday, 4 June 2015

**14:00 – 15:40**      **Technical Session: 4C3**  
**Computer Security Considerations for  
Research Reactors**  
*(Conference Room M2)*

**Chairpersons:**    *V. Juříček, Czech Republic*  
*D. Van Dyck, Belgium*

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	120	<b>C. Stevens</b>	Australia	Australia's IPPAS Mission – Demonstrating a Research Reactor Computer Security Programme
14:20 – 14:40	157	<b>M. Thomas</b>	Jamaica	Cyber Security and Safety for Small Research Reactor Facilities
14:40 – 15:00	032	<b>K. Gomulski</b>	Poland	Modern Approach to Security of Software for Nuclear Facility in Świerk Computing Centre
15:00-15:40		<b>Panel Discussion</b>		
		<b>C. Stevens</b>	Australia	
		<b>M. Thomas</b>	Jamaica	
		<b>K. Gomulski</b>	Poland	
		<b>R. Felts</b>	USA	
<b>15:40 – 16:00</b>	Coffee/Tea Break			<i>Poster Viewing Session IV</i>

## Thursday, 4 June 2015

14:00 – 15:40      Technical Session: 4C4  
Secure Software Development  
(Conference Room PR)

**Chairpersons:**    *A. Chaudhry, Pakistan*  
                          *G. Shannon, United States of America*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
14:00 – 14:20	156	<b>G. White</b>	United States of America	Secure Coding Practices, Tools, and Processes
14:20 – 14:40	013	<b>E. Shafei</b>	Egypt	Developing Security Processes for Critical Software System
14:40 – 15:00	204	<b>F. Kirchner</b>	France	New Software Verification Tools for Nuclear Safety and Security
15:00 – 15:20	149	<b>V. Sergiienko</b>	Ukraine	Invariant-Oriented Technology for Independent Verification of Software, which Implements Critical Functions
15:20 – 15:40		<b>Question Period</b>		
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<b>15:40 – 16:00</b>	Coffee/Tea Break		<i>Poster Viewing Session IV</i>	

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## Thursday, 4 June 2015

15:40 – 16:00 Poster Session IV

(Poster Area – Outside of BRA)

### POSTER PRESENTATIONS

<i>Poster Station</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1	087	<b>O. Martin</b>	United States of America	Knowledge Security: Raising Awareness for Nuclear Scientists, Technicians and Engineers
2	078	<b>S. Godwin</b>	United States of America	Insider Threat: Leveraging Workflow to Inform a Risk-based Approach
3	076	<b>S. Scirè Scappuzzo</b>	Italy	Automatic Radwaste Monitoring: Computer Security Issues
4	082	<b>C. Glantz</b>	United States of America	Computer Security Awareness eLearning for Nuclear Facility Decision Makers
5	111	<b>G. Jang</b>	Korea, Republic of	A Study on the Design Requirements on Cyber Security for Safety I&C Systems in Developing Korea NPPs
6	123	<b>L. Nogueron</b>	Argentina	Regulatory Framework for Safe Disposal of Digital Information

## Thursday, 4 June 2015

**16:00 – 18:00**      **Technical Session: 4D1**  
**Implementation of the Graded Approach**  
**(Conference Room B/M1)**

**Chairpersons:**    **J. Trolle, France**  
                          **C. Stevens, Australia**

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	009	<b>K. Waedt</b>	Germany	Domain Specific Cybersecurity Applied to I&C
16:20 – 16:40	035	<b>E. Lee</b>	United States of America	Consequence-Based, Graded Approach to Cyber Security
16:40 – 17:00	063	<b>E. Lillo</b>	France	Challenges in Considering National and International Cybersecurity Requirements and Performing a Criticality Analysis
17:00 – 17:20	006	<b>T. Walter</b>	Germany	Adapting the Commercial Tool Verinice to German Regulatory Requirements and Use for I&C
17:20 – 17:40	062	<b>V. Vuillard</b>	France	Graded Approach to Computer Security in French NPPs
17:40 – 18:00		<b>Question Period</b>		
<b>18:00</b>	Adjourn			

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## Thursday, 4 June 2015

**16:00 – 18:00**      **Technical Session: 4D2**  
**Education, Training and Knowledge  
Management for Computer Security I**  
*(Conference Room BRA)*

**Chairpersons:**    *A. M. Abdul Rahman, Malaysia*  
                          *O. K. Hakam, Morocco*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	174	<b>HE S. Spassov</b>	Bulgaria	Building Expert Capacity in the Field of IT/Cyber Security through the Nuclear Security Master's Programme of the University of National and World Economy, Sofia
16:20 – 16:40	029	<b>M. Hossain</b>	Bangladesh	Impacts of International Coordination on Computer and Information System Security in a Nuclear World: An Organizational Culture and Social perspectives
16:40 – 17:00	051	<b>G. Gluschke</b>	Germany	Educational Instruments for Nuclear IT/Cyber Security and Information Security Capacity Building
17:00 – 17:20	065	<b>J. Weiss</b>	United States of America	Scenario-based Training for Cyber Security of Nuclear Plant I&C Systems
17:20 – 18:00	195	<b>B. Kaintoch</b>	United Kingdom	Computer Security Training Development and Demonstration
<b>18:00</b>	Adjourn			

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## Thursday, 4 June 2015

**16:00 – 18:00**      **Technical Session: 4D3**  
**Computer Security for Physical  
Protection Systems**  
*(Conference Room M2)*

**Chairpersons:**    **S. Zhurin, Russian Federation**  
**TBD**

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	169	<b>V. Lykov</b>	Russian Federation	Information Security in Automated Systems of Physical Protection at Nuclear Facilities
16:20 – 16:40	060	<b>J. Clem</b>	United States of America	Emulation of Cyber-Enabled Physical Attack Scenarios
16:40 – 17:00	067	<b>J. Li</b>	China	Providing Cyber-Physical Security of Nuclear Power Plants with Heterogeneous Sensors
17:00 – 17:20	080	<b>S. Godwin</b>	United States of America	Traditional Vulnerability Assessment – Exposed and Vulnerable Itself
17:20 – 17:40	039	<b>S. Drapey</b>	Ukraine	Implementation of Computer Security Culture in the Scope of Physical Protection in Ukraine
17:40 – 18:00		<b>Question Period</b>		

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**18:00**                  Adjourn

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## Thursday, 4 June 2015

**16:00 – 18:00**      **Technical Session: 4D4**  
**Technical Talk on Computer Security**  
**Issues for I&C**  
*(Conference Room PR)*

**Chairpersons:**    *P. Sitbon, France*  
*L. Buttyán, Hungary*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
16:00 – 16:20	147	<b>J. Larsen</b>	United States of America	Summary of Attacker Community Research Against Cyber Physical Systems
16:20 – 16:40	184	<b>V. Thakur</b>	India	Regin - Malware Framework for International Espionage
16:40 – 17:00	182	<b>K. Wilhoit</b>	United States of America	The State of SCADA Malware
17:00 – 17:20	170	<b>A. Nikishin</b>	Russian Federation	ICS Threats. A Kaspersky Lab View, Predictions and Reality
17:20 – 17:40	197	<b>M. Fabro</b>	Canada	Case Studies in Real World ICS/SCADA Incident Response and Forensics
17:40 – 18:00		<b>Question Period</b>		
<b>18:00</b>	Adjourn			

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## Friday, 5 June 2015

09:00 – 10:40 Technical Session: 5A1

International and Legal Frameworks for  
addressing Computer Security in Nuclear  
Security Regimes

(Conference Room B/M1)

Chairpersons: T. Lamanauskas, ITU

F. Bosco, UNICRI

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:20	198	<b>E. Kang</b>	United States of America	Looking Forward: How does Cyber Security Fit into an International Nuclear Security Framework
09:20 – 09:40	138	<b>V. Boulanin</b>	France	International and Legal Frameworks Addressing Cyber-Attacks against Nuclear Facilities: The State of Play
09:40 – 10:00	199	<b>J. Herbach</b>	Netherlands	Developing the International Law Framework to Better Address Cyber Threats: Role of Non-binding Instruments
10:00 – 10:20	187	<b>M. Hadji-Janev</b>	The fmr Yugoslav Rep of Macedonia	Evaluating the Applicability of the Existing Principles and Standards of International Law to Cyber
10:20 – 10:40		<b>Question Period</b>		
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<b>10:40 – 11:00</b>	Coffee/Tea Break			

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## Friday, 5 June 2015

**09:00 – 10:40**      **Technical Session: 5A2**  
**Building Computer Security Capacity for  
Nuclear Security**  
*(Conference Room BRA)*

**Chairpersons:**    **G. Berman, Argentina**  
**M. Tran, Vietnam**

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:40	178	<b>N. Malisevic</b>	Germany	Cybersecurity Norms in Reducing Cyber Threats
09:40 – 10:00	109	<b>O. K. Hakam</b>	Morocco	Development of a Regional Development Course on Computer Security in Nuclear Field
10:00 – 10:20	036	<b>Y. Reboul</b>	France	Computer Security Training Based on NSS17 & NST037 at French NPPs
10:20 - 10:40	057	<b>C. Spirito</b>	United States of America	Multinational Confidence Building Measures (CBMs) in Support of Nuclear Safety and Security

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**10:40 – 11:00**      Coffee/Tea Break

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## Friday, 5 June 2015

09:00 – 10:40      **Technical Session: 5A3**  
**Computer Security for I&C Systems III**  
*(Conference Room M2)*

**Chairpersons:**    *J. Lee, Korea, Republic of*  
*L. Mao, China*

### ORAL PRESENTATIONS

<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
09:00 – 09:20	038	<b>J. Bouard</b>	IEC	International Standardisation in Nuclear I&C Engineering: Snapshot on Cybersecurity Activities
09:20 – 09:40	148	<b>H. Kan</b>	China	Cyber Security Considerations in Nuclear Power Plant Digital I&C Systems
09:40 – 10:00	119	<b>S. Jung</b>	Korea, Republic of	Design of a Logging System for a Cyber Security Test-bed of Instrumentation and Control systems in Nuclear Power Plants
10:00 – 10:20	127	<b>T. Holczer</b>	Hungary	The Design and Implementation Of A Plc Honeypot For Detecting Cyber Attacks Against Industrial Control Systems
10:20 – 10:40	194	<b>M. Assante</b>	United States of America	Industrial Control Systems (ICS) Cyber-Security Response to Physical Breaches
<b>10:40 – 11:00</b>	Coffee/Tea Break			

## **Friday, 5 June 2015**

**11:00 – 12:40**      **Technical Session: 5B1**  
**Role of IAEA Guidance and International  
Standards in Computer Security**  
*(Conference Room B/M1)*

**Chairpersons:**    *M. Assi, Lebanon*  
*L. Bachwell, Tunisia*

### **ORAL PRESENTATIONS**

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
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**11:00 – 12:40**                      **Panel Discussion**

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**12:40 – 13:00**      Coffee/Tea Break

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## Friday, 5 June 2015

**11:00 – 12:40**      **Technical Session: 5B2**  
**Education, Training and Knowledge  
Management for Computer Security II**  
*(Conference Room BRA)*

**Chairpersons:**    *HE S Spassov, Bulgaria*  
                          *G. Gluschke, Germany*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	134	<b>U. Jendricke</b>	Germany	Cooperative IT Crisis Management of Public and Private Actors in Germany – Lessons Learned
11:20 – 11:40	140	<b>C. Spirito</b>	United States of America	Integrating Cyber Dimensions in Recognizing and Responding to Threats to Nuclear Facilities: Challenges and Lessons of Recent High Profile Cyber Incidents
11:40 – 12:00	092	<b>A. Choukri</b>	Morocco	A Course on IT/Cyber Security in the Nuclear Master Programme at the University of Ibn Tofail in Morocco
12:00 – 12:20	101	<b>N. Noro</b>	Japan	Curriculum Development of the Computer Security Training Course in Japan
12:20 – 12:40	117	<b>R. Busquim e Silva</b>	Brazil	Can we build Computer Nuclear Security by Applying Knowledge from Different Sectors?
<b>12:40 – 13:00</b>	Coffee/Tea Break			

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## Friday, 5 June 2015

11:00 – 12:40 Technical Session: 5B3

**Conducting Computer Security Incident Response, Forensic and Crime Scene Investigation for Industrial Control and I&C Systems**

*(Conference Room M2)*

**Chairpersons:** *V. Veiderpass, INTERPOL*  
*R. van der Knijff, Netherlands*

### ORAL PRESENTATIONS

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<i>Time</i>	<i>No. of Paper IAEA-CN-228/</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
11:00 – 11:20	154	<b>R. Widh</b>	Sweden	Building National Cybersecurity Competence and Incident Handling targeted towards Critical Infrastructure, A Governmental View
11:20 – 11:40	155	<b>A. Chetaïne</b>	Morocco	Cyber Security and Prevention to Protect Nuclear Data
11:40 – 12:00	027	<b>S. Bittner</b>	United States of America	Adaptive Cyber Forensics
12:00 – 12:20	093	<b>D. Smith</b>	IAEA	Lessons Learned from the Conduct of Forensics Examinations of Nuclear and Other Radioactive Material Out of Regulatory Control
12:20 – 12:40		<b>Question Period</b>		
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<b>12:40 – 13:00</b>	Coffee/Tea Break			

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## **Friday, 5 June 2015**

**13:00 – 13:30**    **Main Session: 5C1**  
**Closing Session**  
**(Conference Room B/M1)**

**Chairperson:**    **Jazi Eko Istiyanto, Indonesia**

**Jazi Eko Istiyanto, Indonesia**  
**Conference President**

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

Summary of the Conference

Closing Remarks by the IAEA

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## PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

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

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## PUBLICATIONS

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

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## IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

IAEA Nuclear Security Series No. 20 (2013)	Objective and Essential Elements of a State's Nuclear Security Regime
IAEA Nuclear Security Series No. 13 (2011)	Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Revision 5)
IAEA Nuclear Security Series No. 14 (2011)	Nuclear Security Recommendations on Radioactive Material and Associated Facilities
IAEA Nuclear Security Series No. 15 (2011) (Co-sponsored by EUROPOL, ICAO, INTERPOL, UNICRI, UNODC, and WCO)	Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control
IAEA Nuclear Security Series No. 23-G (2015)	Security of Nuclear Information
IAEA Nuclear Security Series No. 17 (2011)	Computer Security at Nuclear Facilities
IAEA Nuclear Security Series No. 7 (2008)	Nuclear Security Culture
IAEA Nuclear Security Series No. 8 (2008)	Preventive and Protective Measures Against Insider Threats
IAEA Nuclear Security Series No. 9 (2008)	Security in Transport of Radioactive Material
IAEA Nuclear Security Series No. 10 (2009)	Development, Use and Maintenance of the Design Basis Threat
IAEA Nuclear Security Series No. 11 (2009)	Security of Radioactive Sources
IAEA Nuclear Security Series No. 19 (2013)	Establishing the Nuclear Security Infrastructure for a Nuclear Power Programme
IAEA Nuclear Security Series No. 22-G (2014)	Radiological Crime Scene Management
IAEA Nuclear Security Series No 25-G (2015)	Use of Nuclear Material Accounting and Control for Nuclear Security Purpose at Facilities
IAEA International Law Series No. 4 (2011)	The International Legal Framework for Nuclear Security

IAEA International Law Series No. 2 (2006)	Amendment to the Convention on the Physical Protection of Nuclear Material
IAEA TECDOC No. 1662 (2011)	Preparing and Conducting Review Missions of Instrumentation and Control Systems in Nuclear Power Plants
IAEA Services Series No. 29 (2014)	International Physical Protection Advisory Service (IPPAS) Guidelines
IAEA Proceedings Series (2014)	Nuclear Security: Enhancing Global Efforts Proceedings of an International Conference held in Vienna, Austria, 1-5 July 2013

**FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY  
THE IAEA**

**FORTHCOMING SCIENTIFIC MEETINGS  
SCHEDULED BY THE IAEA**

**2015**

International Conference on Operational Safety (CN-227)  
23-26 June, Vienna, Austria

Scientific Forum (CN-230)  
15-16 September, Vienna, Austria

International Conference on Clinical PET-CT and Molecular  
Imaging (IPET 2015): PET-CT in the era of multimodality imaging  
and image-guided therapy (CN-232)  
5-9 October, Vienna, Austria

International Conference on Global Emergency Preparedness  
and Response (CN-213)  
19-23 October, Vienna, Austria

International Conference on Research Reactors: Safe  
Management and Effective Utilization (CN-231)  
16-20 November, Vienna, Austria

**2016**

International Conference on Regulatory Effectiveness (CN-236)  
February, Vienna, Austria

International Conference on Human and Organizational Aspects  
of Assuring Nuclear Safety: Exploring 30 Years of Safety Culture  
(CN-237)  
22-26 February, Vienna, Austria

International Conference on Advancing the Global  
Implementation of Decommissioning and Environmental  
Remediation Programmes (CN-238)  
23-27 May, tbd

Scientific Forum (CN-240)  
27-28 September, Vienna, Austria

International Conference on Integrated Medical Imaging in  
Cardiovascular Diseases (IMIC 2016) (CN-243)  
10-14 October, Vienna, Austria

26th IAEA Fusion Energy Conference (CN-234)  
17-22 October, Kyoto, Japan

International Conference on the Safety of Radioactive Waste  
Management (CN-242)  
November, Vienna, Austria

3rd International Conference on Knowledge Management in  
Nuclear Energy – Challenges and Approaches (CN-241)  
7-11 November, Vienna, Austria

International Conference on Nuclear Security (CN-244)  
5-9 December, Vienna, Austria

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For information on these meetings, please consult the IAEA web  
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## NOTES