

## INTRODUCTION

Since the 2010 Safeguards Symposium, the IAEA's Department of Safeguards has published its Long-Term Research and Development Plan, 2012–2023. The objective of the 2014 Symposium is to foster dialogue, exchange information and promote cooperation with IAEA stakeholders using this R&D plan to make progress towards achieving the Department's strategic objectives.

## STRUCTURE

Continuing from the R&D Plan, the symposium will hold forward looking safeguard sessions with oral and poster presentations, discussions and exhibitions. It will be held over five days at the Vienna International Centre — the IAEA's headquarters.

## TOPICS

### CONCEPTS AND APPROACHES

- Strategic planning;
- Keeping abreast and making use of scientific and technological innovation;
- Further evolving safeguards implementation;
- Developing approaches to fully utilize State and regional authority data;
- Expanding implementation and development support.

### COOPERATION WITH STATES

- Strengthening State and regional systems of accounting and control;
- Enhancing IAEA and State cooperation;
- Promoting the interface between nuclear safety, security and safeguards.

### DETECTION OF UNDECLARED NUCLEAR MATERIAL AND ACTIVITIES

- Identifying appropriate signatures and indicators;
- Increasing the ability to detect undeclared nuclear material and activities;
- Developing instruments and associated techniques to detect the establishment and operation of nuclear fuel cycle activities.

### SAFEGUARDS EQUIPMENT AND COMMUNICATION

- Developing and deploying improved tools for measurements of nuclear material at enrichment and reprocessing plants;
- Developing and deploying tools and techniques to enable timely detection of HEU production in LEU enrichment facilities;
- Developing more sensitive and less intrusive alternatives to existing NDA instruments;
- Deploying secure and authenticated communications for safeguards equipment;
- Developing secure and authenticated techniques to enable the use of operator systems.

### INFORMATION TECHNOLOGY, COLLECTION, ANALYSIS AND SECURITY

- Using safeguards information in a fully integrated and secure environment;
- Developing software tools for use by State and regional authorities in creating and submitting accountancy reports and additional protocol declarations;
- Integrating information sources to detect inconsistencies;
- Recovering from an IT failure.

### ANALYTICAL SERVICES

- Expanding the use of the Network of Analytical Laboratories;
- Developing elemental and isotopic signatures of fuel cycle activities and their application to environmental sampling and nuclear material analysis;
- Developing techniques, methods and equipment to detect signatures of nuclear activities in environmental samples;
- Improving capabilities to characterize nuclear material and to determine its origin.

### SAFEGUARDING FUTURE NUCLEAR FUEL CYCLES

- Safeguarding advanced nuclear facilities and innovative fuel cycles;
- Encouraging proliferation resistance and safeguards by design;
- Conducting further nuclear verification missions.

### TRAINING

- Developing and maintaining the expertise of safeguards professionals;
- Developing training to reflect new facilities and technologies;
- Deploying new training tools using advanced methods, such as virtual reality, immersive learning and web based training.

## EXHIBITS

Equipment and services, including commercially available products will be exhibited during the symposium. Enquires should be addressed to the exhibit coordinator.



## KEY DEADLINES

- 31 May 2014** Submission of Grant Application Form (Form C)
- 31 May 2014** Submission of Form for Submission of a Paper (Form B) and abstract
- 6 July 2014** Notification of acceptance of papers
- 20 October 2014** Submission of accepted full paper (8 pages max.)

## CONFERENCE LANGUAGE

The conference will be held in English.



## CONTACT INFORMATION

### Symposium Address

International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 Vienna, Austria  
Telephone No.: (+43)1 2600 0  
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Email: [safeguards2014@iaea.org](mailto:safeguards2014@iaea.org)

### Symposium Web Site

Includes detailed information on administrative procedures, including participation, submission of papers, registration and grants.

<http://www-pub.iaea.org/iaeameetings/2014>

### Scientific Secretary

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### Administration and Organization

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Symposium on International Safeguards

# Linking Strategy, Implementation and People

20–24 October 2014



Organized by the



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