

Scientific Matters and Paper Submission

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(For Japanese participants only)

Schedule of Events

10 November	Participation registration Opening addresses Special announcements Invited papers Presentations
11 November	Presentations Reception
12 November	Final session Official closing
13 November	Optional half day tour to: Clean Laboratory for Environmental Analysis and Research (CLEAR) Japan Proton Accelerator Research Complex (J-PARC)

2nd JAPAN–IAEA Workshop on Advanced Safeguards Technology for the Future Nuclear Fuel Cycle

Addressing Common Bases for Future Safeguards Technologies

10–13 November 2009
Nuclear Science Research Institute, JAEA
Tokai-mura, Ibaraki, Japan



Hosted by
JAEA (Japan Atomic Energy Agency)



in cooperation with
IAEA (International Atomic Energy Agency)



PROPOSED TOPIC AREAS

- 1 **Current Status and Future Prospects of Developing Safeguards Technologies for Nuclear Fuel Cycle Facilities**
 - Department of Safeguards Long-Range Strategic Plan
 - Next Generation Safeguards Initiative (NGSI)
 - Instrument Development for Meeting Future Safeguards Technical Specifications
- 2 **Technology and Instrumentation Needs**
 - Safeguards Technology Development Strategy
 - Authorization of Safeguards Equipment
 - Current and Future Requirements for Safeguards Technologies
- 3 **Advanced Safeguards Technologies**
 - Measurement, Sensor and Analytical Technologies (NDA technologies for verification of fuel, Rokkasho on-site laboratory, nuclear reference materials for improvement of DA)
 - Unattended Process Monitoring Systems (data specification, acquisition, transmission and evaluation)
 - Improvement of Burn-up Codes Accuracy
 - Containment and Surveillance Technologies
 - Advanced Safeguards Approaches (concepts in the context of State-level safeguards considerations)
- 4 **Guidelines on Developing Instrumentation to Lead the Way for Implementing Future Safeguards**
 - Joint Planning of Installation during Facility Design Phases
 - Guidance for Designers and Operators
 - Joint Use of Equipment (authentication, technical specification of shared equipment, integrity, independent data access, etc.)
 - International Cooperation for R&D and Implementation of Equipment
 - Information Security
 - Remote Data Transmission (authenticity, encryption, vulnerability, etc.)

5 Experiences and Lessons Learned

- Experience at Advanced Nuclear Fuel Cycle Facilities
- Experience in Joint Use of Equipment
- Experience in Cooperation with Facility Operators and State Authorities
- Panel Discussion

OBJECTIVE

This international workshop will address issues and technologies associated with safeguarding the future nuclear fuel cycle. The workshop will discuss issues of interest to the safeguards community, facility operators and State Systems of accounting and control of nuclear materials.

AUDIENCE

This workshop will be of interest to individuals and organizations concerned with future nuclear fuel cycle technical developments and safeguards technologies. This includes representatives from the nuclear industry, R&D organizations, safeguards inspectorates, State systems of accountancy and control, and Member States Support Programmes.

PAPERS

Presentations and accompanying papers are invited from participants on any of the outlined topic areas. The number of presentations will be limited to allow adequate time for discussions. Papers are to be presented orally.

REGISTRATION

There is no registration fee. Please register via the workshop web site:

[http://www-pub.iaea.org/](http://www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=39029)

[MTCD/Meetings/Announcements.asp?ConfID=39029](http://www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=39029)

KEY DEADLINES

Final registration	30 September 2009
Submission of synopsis (300 words)	15 September 2009
Submission of Power Point presentations	15 October 2009
Submission of paper for the workshop proceedings	17 December 2009

LANGUAGE

The conference language will be English.