

Your Field of Interest:

Nuclear Safety Nuclear Security

Other: _____

as a

Regulator Designer

Operator Manufacturer

Research Organization

Educational Institute

WORKING LANGUAGE

The working language of the Seminar will be English. All communications, as well as synopsis of the papers, posters and presentations, must be sent to PNRA in English.

AUDIENCE

The Seminar is designed for professionals working in nuclear industry in different disciplines including regulators, operators, designers and manufacturers.

Officials working in non-nuclear regulatory authorities, research & educational institutes and other relevant organizations may also benefit from the Seminar.

ACCOMODATION

It is expected that the nominating organizations will bear the expenses of their participants. However, limited funds are available to help meet the cost of attendance of selected national/international experts. In addition, limited accommodation is also available for the participants outside Islamabad.

VENUE

The venue of the Seminar is National Center for Physics (NCP) located in Shahdara Village about 15 Km from Zero Point, Islamabad. The venue is a true attraction of Margalla valley, gifted with scenic beauty, peace and tranquility.

KEY DEADLINE

The filled in "Registration Form" must reach the scientific secretary of the Seminar by **March 14, 2011.**

REGISTRATION

Registration is free of cost. Copy of the Registration Form is acceptable. Registration Form is also available on PNRA website (www.pnra.org).

Scientific Secretary

Mr. Muhammad Khaliq

Project Director, PNRA
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**INTERNATIONAL SEMINAR ON
NUCLEAR SAFETY AND SECURITY
CHALLENGES OF THE
21st CENTURY**

21-23 April, 2011

NCP Islamabad, Pakistan



Pakistan Nuclear Regulatory Authority
G-8/1 Mauve Area, P. O. Box 1912
Islamabad, Pakistan
www.pnra.org

Do you intend to submit a paper/presentation/poster?

Yes No

Title: _____

For Organizer's use only:



BACKGROUND

The nuclear energy renaissance imposed numerous challenges to nuclear industry and organizations responsible for ensuring nuclear safety and security. These challenges include: competency development, regulatory oversight, implementation of integrated management systems, awareness and involvement of public in the licensing process. The integration of nuclear safety and security in the design of NPPs is another emerging concern.

PNRA, as part of its 10th Anniversary celebrations, is organizing an international Seminar on “Nuclear Safety and Security Challenges of the 21st Century” to share experience on important regulatory issues.

The Seminar scheduled from 21-23 April, 2011 will provide an opportunity to review the current practices, identify the strengths, weaknesses and areas for improvement for safe and secure use of nuclear technology.

This Seminar will bring together nuclear safety and nuclear security experts from operating organizations, designers, regulators and researchers and academia to discuss how to improve regulatory effectiveness to ensure protection of the public and the environment

OBJECTIVE

The objective of this Seminar is to highlight the significance of nuclear safety and nuclear Security regimes while regulating Nuclear Power Plants by:

- Promoting discussions on safety & security during design & operation.

- Regulating NPPs by establishing a sustainable nuclear safety and security infrastructure;
- Discussing the safety and security synergies and safety & security cultures;
- Sharing the best practices;
- Fostering dialogue on the technical, scientific and organizational aspects.

TOPICS

The Seminar will include papers, oral and poster presentations on following topical areas:

Area 1: Current Nuclear Regulatory Challenges

The session will address the main regulatory challenges faced by the countries while regulating NPPs; both operating and new builds. These regulatory challenges include: competency development, regulatory oversight for the sites with single & multiple units, implementation of integrated management systems, public awareness and involvement in licensing process for safe and secure use of nuclear energy.

Area 2: Regulatory Assessment of NPPs

The session will include the topics like licensing process, review & assessment during siting, design, construction, commissioning, operation, and decommissioning including radiation protection and radioactive waste management of NPPs. Specific emphasis will be laid on safety assessment methods both probabilistic & deterministic, and assessment of physical protection programs.

Area 3: Long Term / Beyond Design Life Operation of NPPs

The session will emphasize international practices for the review of application for life extension of NPPs, requirements for life extension, ageing management of principal components, application of stress analysis in determination of residual life, irradiation embrittlement phenomenon and utilization of in-service inspection results.

Area 4: Regulatory Aspects of Innovative / Modern Design of NPPs

The session will cover the topics like innovative features of future NPPs in comparison to existing plants; safety and security aspects in design; material requirements and development of regulatory requirements for advanced reactors; consideration of beyond design basis accidents; and development of severe accident management guidelines.

Area 5: Physical Protection Practices in Regulating NPPs and SRS

The session will focus on principles of physical protection realizing the administrative and technical measures while regulating and operating NPPs and sealed radioactive sources (SRS). The session will include topics such as organizational and regulatory aspects of national infrastructures; nuclear safety and nuclear security synergies and management of interfaces between safety and security; experience in up-gradation of physical protection systems of existing nuclear power plants; and development and maintenance of nuclear security culture.

REGISTRATION FORM

INTERNATIONAL SEMINAR ON NUCLEAR SAFETY AND SECURITY CHALLENGES OF THE 21ST CENTURY

Islamabad (Pakistan)
21-23 April, 2011

To be filled and sent to the Scientific Secretary of the seminar

Personal Data :

Title:	<input type="text"/>
First Name:	<input type="text"/>
Middle Name:	<input type="text"/>
Surname:	<input type="text"/>
Organization:	<input type="text"/>
Designation:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Telephone:	<input type="text"/>
Mobile:	<input type="text"/>
Fax:	<input type="text"/>
E-mail:	<input type="text"/>