Nuclear Data and its Applications

26-27 FEBRUARY, 2024

Nuclear Engineering Division (NED),
PINSTECH, P.O. Nilore, Islamabad

Registration Form

Name:_____

Pin Number:_____ | PHOTO |

CNIC No.:_____

Highest Qualification:_____

Experience: _____

Designation/Post: _____

Organization/Establishment:_____

Mailing Address: _____

_____

E-Mail: _____

FAX: _____

Ph: Off:_____Home:_____

Mobile:_____

Signature (Participant):_____

Date:_____

Recommendation by the Head of nominating Establishment:

Signature:_____

Stamp:_____

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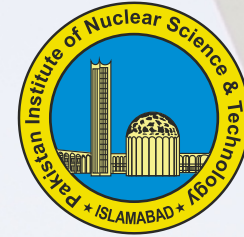*Member (Science), PAEC*

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Nuclear Engineering Division
Directorate of Systems and Services

Pakistan Institute of Nuclear Science &Technology

(PINSTECH)

P.O. Nilore,Islamabad

Introduction

Nuclear data provide the empirical foundation for studies in nuclear energy, safety, research, security, safeguards, and many other areas of science. They also enable applications that touch many aspects of everyday life. Nuclear power and associated fuel cycle operations, national security and non-proliferation applications, neutronics, shielding studies, materials analysis, medical radioisotope production, diagnosis and radiotherapy applications are only a handful of applications that rely on accurate and precise nuclear data. Reliable nuclear data is also useful in predictive power of many simulations such as radiation transport codes. Its passage from new measurements/ calculations through evaluation, validation, as well as applications requires expertise at each step. This symposium focuses to share such expertise.

It is designed for scientists & engineers to provide a comprehensive overview on nuclear data acquisition techniques using different radiation facilities such as particle accelerators and nuclear reactors.

It will start by sharing calculation experience of deterministic codes including TALYS, widely used for nuclear data calculations, evaluations and validations. Secondly it will cover experimental techniques and measurements. In the last part nuclear data applications will be discussed. The program sessions at the symposium will be organized into the following topics:

- Nuclear reaction codes
- Experimental facilities
- Nuclear reaction measurements
- Evaluation methodology
- Covariance and uncertainty quantification
- Medical isotope properties and production
- Monte Carlo techniques in Reactor Physics
- Nuclear data for medical application
- Nuclear data for reactors

On completion of this symposium, the participants will acquire a good knowledge about nuclear data and its applications in nuclear technology.

Course Program

- Lecture Session
- Technical Visit

Objectives

- To provide knowledge of nuclear data study, analysis and applications.

Eligibility

Scientists and engineers, intended to join the course should be well versed of nuclear science and technology.

Registration

Registration Form duly recommended by the Head of Establishment/ Organization should reach the Course Coordinator on or before February 10, 2024 *(Soft copy of the Registration Form is available at http://www.sidnlps.org.pk)*

Course Fee

Per participant **Rs 5,000/-**
In Cash/ Cheque/ DD in favor of Director Finance, PINSTECH Nilore, Islamabad
Course fee covers cost of course material, regular lunch/ inter-session tea etc.

Accommodation/ Travel

Participants will have to make their own arrangement of stay in Islamabad or Rawalpindi

Workshop Venue

Dr. I. H. Usmani, Auditorium, PINSTECH. Islamabad.

Pick & Drop to Venue

Enroute pick & drop from Rawalpindi/ Islamabad to the training course venue (PINSTECH, Nilore) will be provided by the course organizers. For further information, please contact

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Course Coordinator

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