

# 2024 INTERNATIONAL TOPICAL MEETING ON NUCLEAR APPLICATIONS OF ACCELERATORS



**Friday, March 15, 2024 - Thursday, March 21, 2024**

**Sheraton Waterside Hotel**

## **Scientific Program**

## **Accelerator Facilities**

Progress at currently operating facilities and facilities under construction; Future, upgrades, and reset possibilities; Shutdown plans and decommissioning plans; Management and strategy for accelerator facilities; Accelerator Driven Systems

### **Accelerator Facilities**

## **Accelerator Design and Technology**

New concepts and prototyping for accelerator design (including low energy); Needs for codes and model development; new trends in instrumentation; Radiation protection and shielding; Availability and reliability analyses

### **Design and Technology**

## **High-Power Accelerator Components and Targets**

High-power Accelerator Components and Targets Windows, beam monitoring systems, and beam dumps; Targets

### **High-Power Accelerator Components and Targets**

## **Nuclear Data**

Nuclear Data Nuclear reaction models and applications; Charged particle, fission and fusion cross-sections and application; Photonuclear cross-sections and applications; High energy particle modeling, experiments, and applications

### **Nuclear Data**

## **Accelerators for Material Science**

Accelerators for Material Science New structural materials for fission and fusion reactors; Effects of heavy ions on materials; Effects on materials for microelectronics with fast particles; Low energy methods for space, aviation, and other applications

### **Accelerators for Material Science**

## **Accelerators for Security and Forensics**

Border security; Replacing high activity sources with accelerator-based irradiators; Nuclear techniques for forensics

## **Accelerators for Security and Forensics**

## **Accelerators for Environmental Studies**

Environmental monitoring; Climate change and natural disasters

### **Accelerators for Environmental Studies**

## **Accelerators for Cultural Heritage**

Authentication, dating, and characterization; Conservation

### **Accelerators for Cultural Heritage**

## **Medical Applications of Accelerators**

Production of medical radioisotopes; Hadron therapy; BNCT; Radiobiology

### **Medical Applications of Accelerators**

## **Industrial Application of Accelerators**

Electron and x-ray irradiation; Industrial applications of ion beams

### **Industrial Application of Accelerators**

## **Compact Accelerators**

Accelerator technology; Gamma Ray production; General applications

### **Compact Accelerators**