2024 INTERNATIONAL TOPICAL MEETING ON NUCLEAR APPLICATIONS OF ACCELERATORS

March 15, 2024 - 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; Charges 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