

>> PATRAM22

BRINGING TRANSPORT TOGETHER



CALL FOR PAPERS

ABOUT PATRAM 22

PATRAM 22 will be held at the ANTIPOLIS Palais des Congrès, in the beautiful Juan-les-Pins, Antibes on the French Riviera from 11 June - 16 June 2023.

The PATRAM Symposia is the only international event dedicated to the exchange of information for packaging and transportation of radioactive materials and therefore presents a unique opportunity for the entire professional community as Industrials and Authorities.

We host an average of 800 participants distributed between plenary conferences, technical sessions, posters sessions and a technical competition with awards to be granted. The purpose of event is to gather at international level, industry experts, representatives of the competent authorities, governments and research organizations for scientific and technical exchanges purposes, in connection with all aspects related to packaging and transport of radioactive materials.



A MESSAGE FROM THE PATRAM 22 HOST & CHAIR

It is now just under a year to PATRAM 22, in the beautiful French Riviera resort of Juan-les-Pins, Antibes and the initial Call for Abstracts has already been broadcast.

At this, the 20th International PATRAM Symposium focussing on the packaging and transport of radioactive materials, we have much to discuss and a great deal to reflect upon, not least how we have all dealt with the challenges of the pandemic. Equally as importantly, our reassembly gives us much to celebrate and Juan-les-Pins provides the most wonderful of backdrops for our community to reacquaint and refocus on the important work that binds us. COP26 has caused us all to look in the mirror and consider how we can contribute to sustainability through decarbonisation and, having been in Glasgow during COP26, I am overwhelmed by the groundswell of support for nuclear to supplement renewables in the climate solutions being explored.

Nuclear energy generation and nuclear maritime propulsion are key areas that can contribute to decarbonisation and it is my hope that the PATRAM programme reflects this during our technical sessions. All in all, I cannot wait to meet with colleagues old and new during PATRAM to discuss and debate transport for a new nuclear era and I expect that, as we close our proceedings with a splendid celebration, we will all be reinvigorated in our shared mission of driving safe, secure, reliable, efficient and sustainable radioactive material transport. So my message is very simple, I want all our community to consider contributing technical papers to our programme and then we will have the opportunity to say to colleagues and peers **see you in Juan-les-Pins!**

- Martin Porter, PATRAM 22 Host and Chair.



From left: Martin Porter, WNTI, PATRAM 22 Chair, Frederic Ledroit, IRSN, PATRAM 22 Programme Committee Chair and Jeff England, INMM, PATRAM 22 Vice-Chair of the Programme Committee.

SUBMITTING AN ABSTRACT

Authors are invited to propose papers for inclusion in PATRAM 22 focusing on a broad range of technical, institutional and operational topics and matters. Selection for inclusion in the PATRAM 22 Symposium will be made based on the merits of the paper as judged by review of abstracts.

Papers may include, but are not limited to, the following topics:

- **Package Design, Package Performance and Safety & Security Analysis**
- **Operational Matters**
- **Institutional and Regulatory Environment**
- **Training and Education**

FORMAT

- Authors should indicate whether they intend to present their papers verbally or as a poster.
- Each abstract submitted for consideration must be in English.
- The abstract should succinctly describe the premise, substance, central findings and results or expected results of the paper.
- Abstracts should not exceed 350 words.
- Authors should indicate the topic they believe best represents their paper.

HOW TO SUBMIT AN ABSTRACT

- Abstracts must be submitted via the online abstract submission platform accessible via patram.org/abstract-submission, from 18 October 2021. This online database will allow authors flexibility in submitting their abstracts.
- Complete all sections of the electronic submittal form. This information is important so that the Paper Selection Committee can contact you regarding the disposition of your paper.
- Final Papers are required from all presenters. Final papers deadline will be confirmed shortly. Instructions for submitting your paper will be sent with your author notification.
- Due to the postponement of PATRAM 22, the Abstract Submission deadline has been extended.

ABSTRACT SUBMISSION DEADLINE

31 OCTOBER 2022

PATRAM 22 TRACKS



1

Package Design, Package Performance and Safety & Security Analysis

This track includes Materials and Testing as well as Structural, Thermal, Shielding, Criticality, and Security Assessment. Within this track, presentations on but not limited to the following topics will be particularly encouraged:

- Digital design and analysis of packages (digital model, artificial intelligence...)
- Physical testing
- Modelling issues such as stakes, code qualification, design criteria for numerical approaches
- Ageing issues (package, content behaviour...)
- Dual Purpose Casks
- Manufacturing (bolts, welding, vessel...)
- How does transport self-evaluate/peer-evaluate during the overall process of licensing?
- Uranium hexafluoride package and transport
- Content specific safety aspects (high burnup spent fuel as well as hydrogen generation...)
- Security aspects (interface between safety and security)
- and any new ideas on Package Design, Package Performance and Safety & Security Analysis

In particular, some sessions of this track could focus on aspects in connection with the context of spent fuel management and dismantling operations as well as emergent topics (small modular reactors (SMR), advanced reactor fuel, high-assay low-enriched uranium (HALEU), transportable reactors...).

Track leader: Dr Frank Wille (BAM, Germany)

Track co-leader: Dr Edward Ketusky (SRNL/INMM, USA)



2

Operational Matters

This track is about the implementation of, and compliance with, and application of the safety and security transport regulations. It encompasses Tracking, Routing, Emergency Preparedness, Radiation Protection, Delays and Denials of Shipments. The topics could explore among others:

- Application of regulations and operational issues (CSI and TI, LSA, tie-down, stowage, etc.)
- Impact of changing material classification (A values, LSA-III, large objects...)
- Incident and accident reporting and documentation
- Safety and security operational interface
- How to master the safety requirements from design to effective transport, and to manage their modification during the lifecycle of the package
- Public acceptance and dialogue with stakeholders (local authorities and communities...),
- Emergency Preparedness and Response: emergency drills, influence of media / social media, etc.
- Transport, Storage and Disposal Interactions Issues (including Ageing Management)

Track leader: Ms Lisa Nallet (ORANO NPS)

Track co-leader: Mr Rick Boyle (US DOT)

**3**

Regulatory & Institutional Environment

This track covers regulations, codes and standards, as well as the activities of relevant institutions such as competent authorities, technical service organizations, national and international standards organizations, and international organizations. Specific items that may be addressed include but are not limited to the following topics within the regulatory and institutional environment:

- Advanced reactor and high assay low enriched uranium (HALEU) fuels
- Floating and transportable nuclear power plants
- Decommissioning of nuclear facilities
- Security challenges including tracking and routing
- Ageing mechanisms
- Approval process of package designs (e.g. review of full-digital design and analysis, bounding parameters for the contents of packages).

Track leader: Mr Eric Reber (IAEA)

Track co-leader: Dr Takuji Fukuda (NRA, Japan)

**4**

Training and Education

This track covers education and training for technical, including safety and security, and management issues in the nuclear packaging and transportation industry. The track will encompass several objectives, including but not limited to:

- Enhance public involvement to ensure decisions reflect stakeholder and community perspectives
- Advance ideas for knowledge sharing among nations (including emergent nations), such as developing training program for emerging countries
- Highlight a) innovative approaches for information, communication, education b) knowledge management approaches that develop the next generation of nuclear leadership
- improve responsive and professional skills management system considering equality, diversity and inclusion aspects as well as considerations on experience, qualification, registration and continuing professional development (e.g. professional accreditation internationally recognised)
- improvement of training programs (domestic/international), transition to virtual platforms for training
- Any new ideas on training and education.

Track leader: Dr James SHULER (US DOE)

Track co-leader: Mr Tony Grange (UK RAMTUC)

OUR PARTNERS



QUESTIONS?

If you have any questions please get in touch via our website patram.org or email emily@patram.org.uk

SUBMIT ABSTRACT

patram.org

