



Newsletter #3

TRITIUM SCHOOL

Hybrid Format
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FOURTH EDITION



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Invitation for **Fourth Tritium School**

TITANS is pleased to announce the Fourth Tritium School, set to take place in Spring 2026 in Madrid, Spain, in a hybrid format — allowing both on-site and online participation.

This school is especially aimed at the young generation of researchers in the fields of fusion and fission R&D, offering a unique opportunity to deepen knowledge and address key challenges in tritium management for nuclear facilities.



Core Topics Include:

- Tritium management, inventory, and control
- Waste management
- Radiotoxicity and ecotoxicity
- Tritium epidemiology
- Tritium dosimetry

17 Save the date and join us to learn, exchange ideas, and connect with experts working at the forefront of tritium research!

More details coming soon — stay tuned

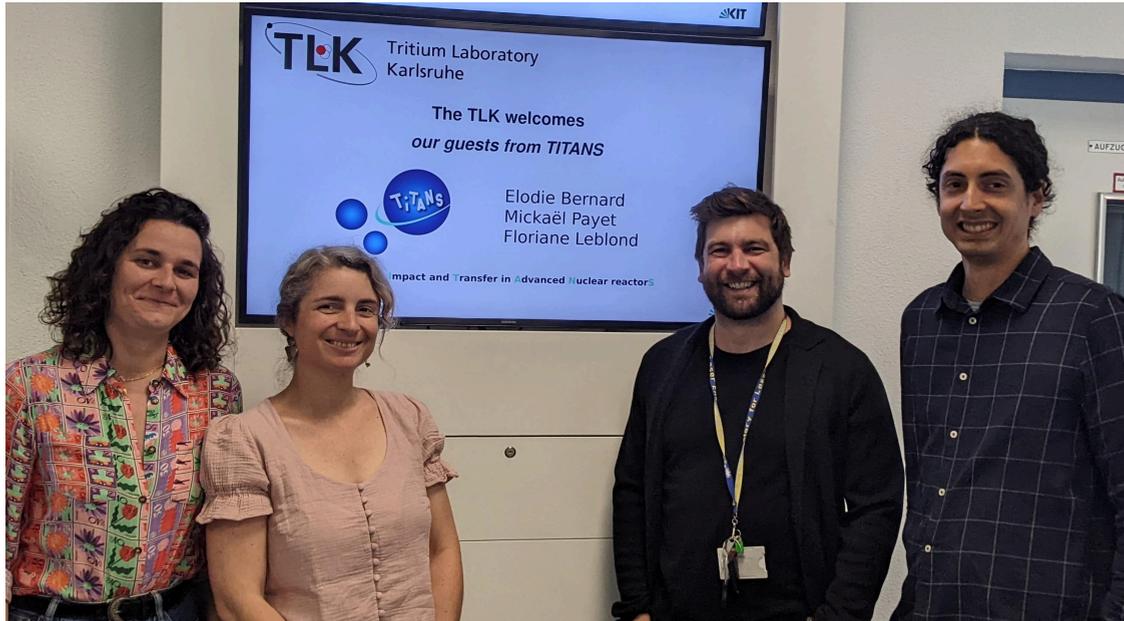


Figure: Award to winner during the 50th anniversary of the SFT, Lyon, November 2024

50th Anniversary of the Société Française de Toxicologie

Rebecca Castel, researcher in TITANS WP 3, attended the congress of 50th anniversary of the Société Française de Toxicologie. It took place in Lyon on November 14 and 15 2024 and brought together French toxicologists from the private sector and from the public sector. The program focused on the evolution of toxicology over these 50 years, innovations and future trends. She was awarded a poster prize for presenting our results on the genotoxicity of tritiated particles from steel and cement.

She is also a Science Taille XXelles ambassador, a program run by CNRS and Femmes & Sciences. “Science taille XX elles” is a multifaceted concept aimed at promoting the place of women in science, which was initiated in Toulouse in 2018 by the Femmes & Sciences association and the CNRS. The original idea is to highlight women scientists through the artistic and quirky eye of photographer Vincent Moncorgé in order to reach out to a very wide audience. The aim is to attract attention, arouse curiosity and raise awareness of the fact that women are active players in research, and to promote the scientific professions. The main objectives are to promote the role of women in science, deconstruct the stereotypes still in force, raise awareness of equality issues and provide role models for younger people (<https://www.provence-corse.cnrs.fr/fr/cnrsinfo/la-science-taille-xx-elles-edition-marseillaise>).



CEA Technical Meeting **at KIT**

On June 4th and 5th, the CEA\IRFM collaborators involved with the tritium permeation study visited the Tritium Laboratory Karlsruhe (TLK) at KIT, Germany. The technical meeting in the scope of WP1 was to discuss the progress of permeation-related activities carried out by the two partners, i.e. active permeation barriers for KIT and LiPb corrosion-exposed membrane for CIEMAT & CEA. Simon Niemes and his collaborators welcomed the visitors with a tour of the tritium facilities, focusing on the closed loop able to handle an inventory of up to 40g. This included a comprehensive presentation of the tritium-based neutrino mass experiment KATRIN, the exhaust processing and isotope separation systems and the various tools for tritium monitoring and tracking. Perspectives for future developments, such as radiolysis impact and enhanced analysis tools, appear as a strong cross-functional point directly linked to the needs of future tritium applications and uses.



Webinar Recap: Focus on DUST

Our second webinar, held on 4th February 2025, explored the topic of dust in fusion environments, drawing a maximum of 49 participants.

A full-day program covered key aspects of dust research:

- Dust production mechanisms, including plasma arcing and magnetron sputtering
- Tritiation and analysis, such as dust microstructure and activation
- Modelling and waste, with a focus on dust transport, remobilization, and safety in fusion devices

A lively discussion followed, addressing:

- Mechanisms of dust production
- Challenges in post-mortem analysis, especially surface-specific area
- Formation of metallic dust (W, B) in fusion conditions
- The need for validation of modeling data
- Critical gaps in diagnostics for both tritium and dust particles

This event offered a valuable platform for scientific exchange and identified key areas for future work.



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