

# Overview of Nuclear Energy Advanced Modeling and Simulation (NEAMS) tools to accelerate the development of advanced reactor systems

**Dr. Mauricio Tano Retamales**

10 December 2025



Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens



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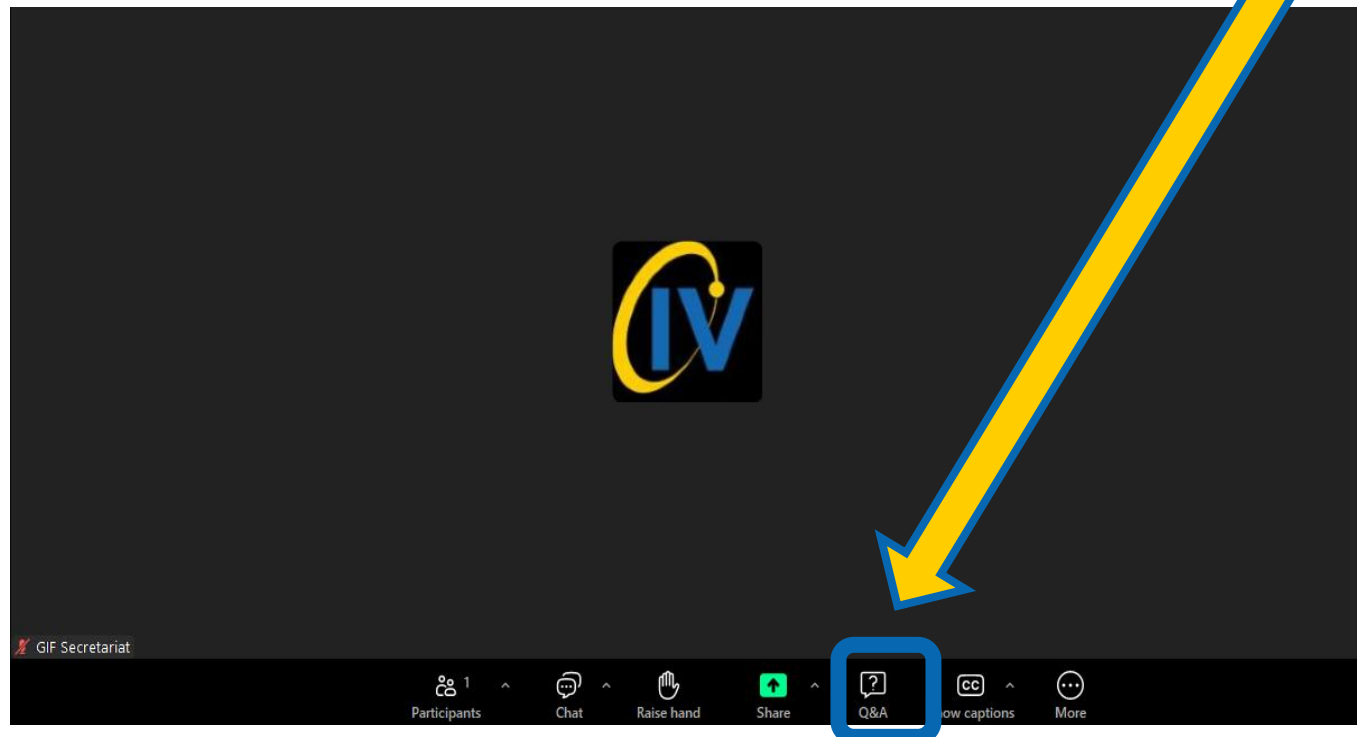
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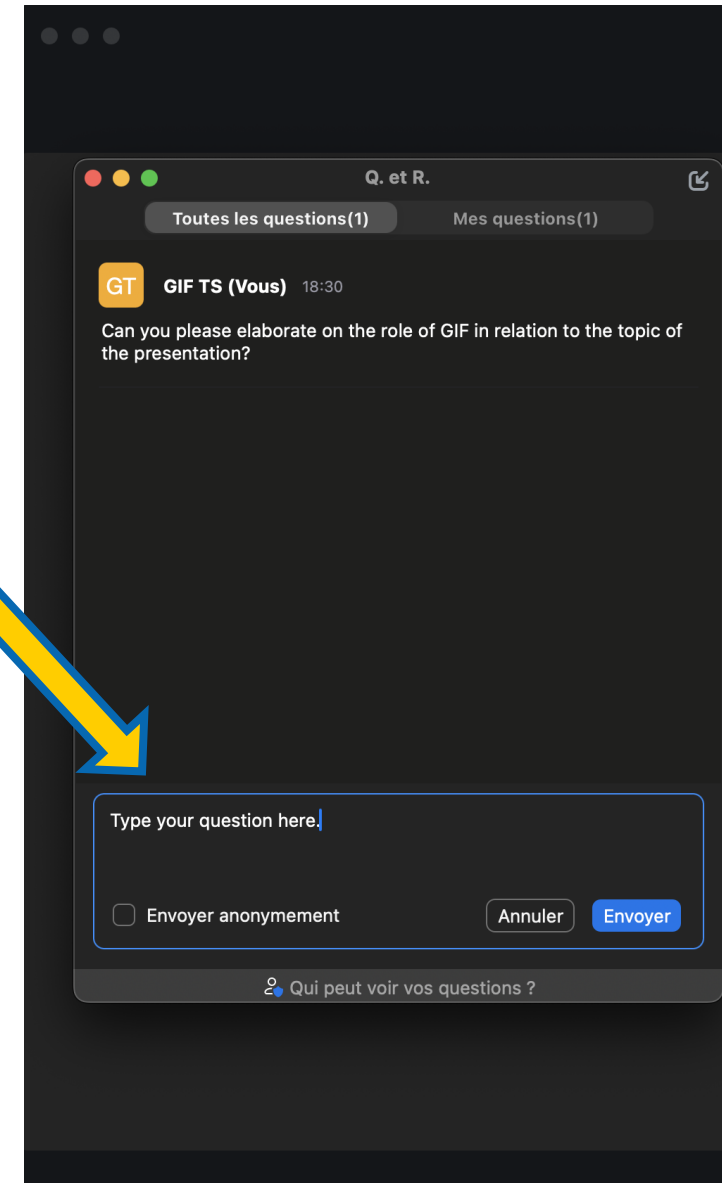
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## Meet the Presenter

**Dr. Mauricio Tano Retamales** is a scientist in the Nuclear Technology division at the Idaho National Laboratory. He leads efforts for the development and validation of multiphysics software under multiple DOE programs. Additionally, he routinely engages with nuclear industry stakeholders to improve nuclear reactor design and operation, which motivated some of the applications to be presented in this seminar.

He has co-authored 80+ peer-reviewed publications, 30+ laboratory reports, 3 book chapters, and 2 U.S. patents.

In 2018, he received his PhD in nuclear engineering from the Grenoble Institute of Technology, University of Grenoble-Alpes, France.





# Upcoming Webinars

Date	Title	Presenter
28 January 2026	History of Nuclear Reactors Development	Prof. Christophe Demaziere, Chalmers University, Sweden
February 2026	Approach to Waste Characterisation as well as the Use of Synroc Technology for Advanced Fuel Cycle	Dr. Dan Gregg and Dr. Anton Peristy, ANSTO, Australia
March 2026	Overview of the various UK NNL activities supporting advanced reactor systems (and their related fuel cycles)?”	Dr. Mike Edmonson, Dr. Seddon Atkinson, Dr. Nassia Tzelepi, UK National Nuclear Laboratory, United Kingdom