

【Track7】 TRISO Fuel Performance

• BISON Predictions of UN TRISO Performance and Comparison with UCO Under Steady-State Irradiation Conditions

Stephen Rhead Novascone(Idaho National Laboratory), Carlotta Giuliana Ghezzi(Idaho National Laboratory), Jacob Aaron Hirschhorn(Idaho National Laboratory), Arianna Pagani(Texas A&M University/Idaho National Laboratory), Pierre-Clément Simon(Idaho National Laboratory), Ryan Terrence Sweet(Idaho National Laboratory)

• Development and Validation of an In-House TRISO Fuel Performance Code

Zhi Zheng Goh(Singapore Nuclear Research and Safety Institute), Yew Hoe Ethan Wong(Singapore Nuclear Research and Safety Institute), Kay Chen Theodore Ong(Singapore Nuclear Research and Safety Institute), Sicong Xiao(Singapore Nuclear Research and Safety Institute)

• TRISO Fuel Performance in OFFBEAT: CRP-6 Benchmark Validation and a Prototype Multi-Scale Compact Coupling

Alessandro Scolaro(Paul Scherrer Institute, Laboratory for Reactor Physics and Thermal-Hydraulics), Linyi Yang(École polytechnique fédérale de Lausanne, Laboratory for Reactor Physics and Systems Behaviour)

• PEGASUS-TRISO Modeling Enhancements and Benchmark Validation

Wenfeng Liu(Structural Integrity Associates, Inc.), Deena Jaber(Structural Integrity Associates, Inc.), Joe Rashid(Structural Integrity Associates, Inc.), Anant Mohan(Structural Integrity Associates, Inc.)

• Preliminary Assessment of Fission Gas Behavior Models for UCO TRISO Fuel in BISON Under AGR-Relevant Conditions

Martina Di Gennaro(Idaho National Laboratory), Jacob A. Hirschhorn(Idaho National Laboratory), Ryan T. Sweet(Idaho National Laboratory), Pierre-Clément A. Simon(Idaho National Laboratory), Stephen R. Novascone(Idaho National Laboratory)