

【Track5】 High-burnup Fuels

• Microstructural Evolution of High-Burnup UO₂ Fuel Using EBSD

Aaron Colldeweih(Idaho National Laboratory), Mario Matos(Idaho National Laboratory), Dahyeon Woo(Seoul National University), David Kamerman(Idaho National Laboratory)

• Evaluation of Heating Rate and Internal Pressure on the Cladding Behaviors of High-Burnup Zirconium Fuel Rods during Postulated Loss-of-Coolant Accidents

Yong Yan(Oak Ridge National Laboratory), Jae-Kyung Han(Oak Ridge National Laboratory), Peter Doyle(Oak Ridge National Laboratory), Jason Harp(Oak Ridge National Laboratory), Nathan Capps(Oak Ridge National Laboratory), Jeffrey Kobelak(Westinghouse Electric Company), Kevin Barber(Westinghouse Electric Company), Ellen Feldsien(Westinghouse Electric Company)

• Approach to the Impact Evaluation of FFRD during LOCA in High Burnup Fuel on Japanese PWRs

Masaaki Yamato(Mitsubishi Heavy Industries Ltd.), Nozomu Murakami(Mitsubishi Heavy Industries Ltd.), Masataka Tajimi(Kansai Electric Power Corporation)

• Oxidation behavior of Cr-coated Zry in High Temperature Steam Studied by Thermogravimetry

Hai Pham(Japan Atomic energy Agency), Toru Kitagaki(Japan Atomic energy Agency), Shinichiro Yamashita(Japan Atomic energy Agency), Yoshiyuki Nemoto(Japan Atomic energy Agency), Yuji Okada(Mitsubishi Heavy Industries), Daiki Sato(Mitsubishi Heavy Industries)

• Alternative Licensing Strategy for Addressing Fuel Fragmentation, Relocation, and Dispersal Issues in Pressurized Water Reactor Loss-of-Coolant Accidents

Fred Smith(Electric Power Research Institute), Storm Kauffman(MPR Associates, Inc.), Jeff Kobelak(Westinghouse Electric Company), Nate Glunt(Electric Power Research Institute), Markus Burkardt(Dominion Engineering, Inc.), Gideon Schmidt(Dominion Engineering, Inc.), Kevin Barber(Westinghouse Electric Company), Cecile Dame(MPR Associates, Inc.), Kurshad Muftuoglu(Electric Power Research Institute)