

【Track7】 Metallic Fuel Fabrication & FCCI

•Experimental Evaluation of Eutectic Reaction Rates of U-Zr-Fe and U-Pu-Zr Alloys with Stainless Steel for Accidents Analysis of Metal-Fueled Sodium-Cooled Fast-Reactor

Takumi Sato(Japan Atomic Energy Agency),Takanari Ogata(Central Research Institute of Electric Power Industry),Hidemasa Yamano(Japan Atomic Energy Agency),Saishun Yamazaki(Nippon Nuclear Fuel Development),Atsushi Ohuchi(Nippon Nuclear Fuel Development),Kan Sakamoto(Nippon Nuclear Fuel Development)

•Laser additive manufacturing of uranium-zirconium metallic fuel: Rapid solidification and layer-by-layer fusion of uranium-8 wt% zirconium

Abhi Ghosh(Canadian Nuclear Laboratories),Robyn Krowchuk(Canadian Nuclear Laboratories),James Crigger(Canadian Nuclear Laboratories),Reza Esmaeilzadeh(Canadian Nuclear Laboratories),Patrick Lysz(Canadian Nuclear Laboratories),James Buckley(Canadian Nuclear Laboratories),Daniel Cluff(Canadian Nuclear Laboratories),Ike Dimayuga(Canadian Nuclear Laboratories)

•Radiation-Resilient Y_2O_3/CrY Multilayer Diffusion Barriers for FCCI Mitigation: Long-Term Compatibility Studies

Abdellatif Yacout(Argonne National Laboratory),Sumit Bhattacharya(Argonne National Laboratory),Zhi-Gang Mei(Argonne National Laboratory)

•Co-extrusion U-10Mo Alloy Fuel with FCCI Diffusion Barrier for Sodium Fast Reactor Application

Yachun Wang(Idaho National Laboratory),Randall Fielding (Idaho National Laboratory),Colby Jensen (Idaho National Laboratory)