

### **[Track3] Advanced UO<sub>2</sub> Fuel Pellet Research**

- **Separate-Effects Investigation of Fission Gas Behavior in UO<sub>2</sub> with Controlled Cr<sub>2</sub>O<sub>3</sub> Doping and Grain Size**

Tianyi Chen(Oregon State University),Ian Ferguson(Oregon State University),Jacob Sorenson(Oregon State University),Jie Lian(Rensselaer Polytechnic Institute),Dong Zhao(Rensselaer Polytechnic Institute),Kevin Yan(Rensselaer Polytechnic Institute),Peter Mouche(Argonne National Laboratory)

- **Fabrication and Optimization of Mo-microcell UO<sub>2</sub> Fuel for Industrial Application**

Yunsong Jung(Korea Atomic Energy Research Institute),Dong-Seok Kim(Korea Atomic Energy Research Institute),Jae Ho Yang(Korea Atomic Energy Research Institute),Ji-Hwan Lee(Korea Atomic Energy Research Institute),Dong-Joo Kim(Korea Atomic Energy Research Institute),Ji-Hae Yoon(Korea Atomic Energy Research Institute),Hyeong Jin Kim(Korea Atomic Energy Research Institute),Kwang-Young Lim(KEPCO Nuclear Fuel),Yeon-Soo Na(KEPCO Nuclear Fuel)

- **Atomic-level structural characterization of irradiated UO<sub>2</sub> crystallites in high burnup spent fuel by advanced synchrotron-based techniques**

Goutam Kuri(PSI Center for Nuclear Engineering and Sciences),Shaileyee Bhattacharya(PSI Center for Nuclear Engineering and Sciences),Johannes Bertsch(PSI Center for Nuclear Engineering and Sciences)