

Light Water Reactor Fuel Performance Conference (TopFuel 2022)

Raleigh, North Carolina, USA
9 – 13 October 2022

ISBN: 978-1-7138-8637-2

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Red Hook, NY 12571



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- 635 Fuel Performance Distortion Evaluation Under Reactivity Insertion Accidents Conditions with Dynamical System Scaling—*Alexander Duenas (Oregon State), Dan Wachs (INL), Guillaume Mignot (Oregon State), Qiao Wu (Oregon State), Jose Reyes Jr. (NuScale Power), Wade Marcum (Oregon State)*
- 645 BISON Validation and Sensitivity Study of FeCrAl Cladding Burst During Simulated RIA Conditions—*Soon K. Lee (Univ. Tennessee, Knoxville), Ben E. Garrison (ORNL), Nathan A. Capps (ORNL), Caleb P. Massey (ORNL), Kory D. Linton (ORNL), Nicholas R. Brown (Univ. Tennessee, Knoxville)*
- 650 Progress in Modeling Clad Ballooning During the NSRR RIA Tests Using ALCYONE Fuel Performance Code—*I. Guénot-Delahaie (CEA), J. Sercombe (CEA), R. Largenton (EDF), X. Haller (Framatome)*

661 Pellet-Cladding Interaction / Pellet-Cladding Mechanical Interaction

- 662 Pellet Cladding Interaction In-Reactor Ramp Testing in a World Without the Halden Boiling Water Reactor—*Nicolas Woolstenhulme (INL), Brian Durtschi (INL), Charles Folsom (INL), Scott Holcombe (INL), Colby Jensen (INL), David Kamerman (INL), Travis Labossiere-Hickman (INL), Nate Oldham (INL), Daniel Wachs (INL)*
- 671 PEGASUS: An Advanced Tool for Assessing Pellet-Cladding Interaction—*M. Kennard (Structural Integrity Assoc.), W. Lyon (Structural Integrity Assoc.), W. Liu (Structural Integrity Assoc.), D. Nightingale (Structural Integrity Assoc.), J. Rashid (Structural Integrity Assoc.)*
- 678 Rethinking PCMI Failures Under Transient Conditions—*Paul Cantonwine (ORNL), Bob Rand (Global Nuclear Fuels, Retired)*
- 685 Thermal-Hydraulic and Fuel Performance Scoping Studies of a Flowing Water Capsule in TREAT—*C.P. Folsom (INL), R.J. Armstrong (INL), N.E. Woolstenhulme (INL), D.D. Imholte (INL), K.S. Anderson (INL), C.B. Jensen (INL)*

695 Transient Fuel Testing

- 696 In-Situ Thermomechanical Measurements During Burst Testing of Zr Claddings Using Digital Image Correlation and Infrared Thermography Techniques—*Samuel B. Bell (Univ. Tennessee, Knoxville), Benton Garrison (ORNL), Ryan T. Sweet (ORNL), Mackenzie Ridley (ORNL), Kenneth A. Kane (Johns Hopkins Univ. Applied Physics Laboratory), Nathan A. Capps (ORNL)*
- 701 Investigation of Nuclear Fuels Behaviour Under Thermal Stresses: New Insights Gained Thanks to Laser-Based Experiments—*Yves Pontillon (CEA), Thomas Doualle (CEA), Matthieu Reymond (CEA), Vincent Klosek (CEA), Laurent Gallais (Aix Marseille Univ.)*
- 711 Transient Fuel Tests in BR-2 with the Pressurized Water Capsule -- Decomposing Gamma-Heating and Nuclear Fission Contributions—*S. Billiet (SCK CEN), B. Boer (SCK CEN), R. Van Nieuwenhove (SCK CEN), E. Sikik (SCK CEN), S. Mellemans (SCK CEN), G. Van den Branden (SCK CEN), M. Verwerft (SCK CEN)*
- 719 The NEA Framework for Irradiation Experiments (FIDES): A New Future for International Collaboration on Nuclear Fuel Research—*Michelle Bales (Nuclear Energy Agency), Markus Beilmann (Nuclear Energy Agency), Gilles Bignan (Commissariat for Atomic Energy and Alternative Energies), Raymond Furstenuau (U.S. Nuclear Regulatory Commission), Tatiana Ivanova (Nuclear Energy Agency), Olivier Marchand (IRSN), Daniel Wachs (INL)*

723 Used Fuel Storage, Transportation, and Re-Use

725 Testing of Used Fuel

- 726 Advanced Vacuum Sipping Spent Fuel Classification Before Dry Storage and Decommissioning Activities—*Roberto Rodriguez (ENUSA), Jose M. Rodero (ENUSA), Ivan Sanchez (ENUSA), Alicia Sánchez Siguero (ENUSA)*
- 732 Mimicking the Radiolytic Corrosion of Spent Nuclear Fuel Surfaces—*Yadukrishnan Sasikumar (Open Univ.), William Nuttall (Open Univ.), Paul Thompson (European Synchrotron Radiation Facility), Ross Springell (Univ. Bristol)*
- 738 The Mechanical Response of High Burnup 17x17 PWR Fuel Rods Under Bending—*P. Cantonwine (ORNL), O. Martinez (ORNL), R. Montgomery (ORNL)*

747 Spent Fuel Modeling

- 748 Spent Fuel Burnup Measurement System: Evolution of SICOM-NG-FA for Republic of Korea Nuclear Power Plants—*Roberto Rodríguez (ENUSA), Ivan Sánchez (ENUSA), Angel Ramos (ENUSA), Miriam Vázquez (ENUSA), Alfonso Lain (TECNATOM), Hyeong Kim (KEPCO-Nuclear Fuel Co.), Manseok Do (KEPCO-Nuclear Fuel Co.)*
- 755 The Development of a PWR Spent Fuel Decay Heat Uncertainty Methodology Applicable to MOX and UOX Fuel—*Matthias Vanderhaegen (Tractebel Engineering), Quivy Bernard (Tractebel Engineering), Slosse Nicolas (Tractebel Engineering), Meert Arnaud (ENGIE Electrabel), Stichelbout Jonas (ENGIE Electrabel)*
- 764 The Licensing of a PWR Spent Fuel Decay Heat Uncertainty Methodology Applicable to MOX and UOX Fuel Developed by Tractebel—*N.A. Hollasky (Bel V), M. Vincke (Bel V)*
- 769 Transport of Irradiated Nuclear Fuel Between Reactor Sites for Further Use—*Rickard Land (Forsmark), Sofia Nilsson (Forsmark), Jesper Kierkegaard (Vattenfall Nuclear Fuel)*

777 Spent Fuel Examination

- 778 Metallography Examination and Hardness Measurements of High-Burnup Spent Nuclear Fuel Claddings During Simulated Drying Conditions—*Muhammet Ayanoglu (ORNL), Rose Montgomery (ORNL), Bruce Bevard (ORNL)*
- 784 Microscopy Examinations of KKB Special Fuel Rods—*Pia Tejland (Studsvik Nuclear), Joakim K.-H. Karlsson (Studsvik Nuclear), Cecilia Janzon (Studsvik Nuclear), T. Lin (Studsvik Nuclear), Anna-Maria Alvarez (Studsvik Nuclear), Kyle Johnson (Studsvik Nuclear), Radomir Josek (Studsvik Nuclear), Arno Benen (Vattenfall Europe Nuclear Energy)*

793 Appendix: Workshop