Idaho National Laboratory

July 14-16, 2020 GoToWebinar

July 14, 2020 GCR Fuels Program Session 1 (All Times MT)

8:00	Welcome and Meeting Logistics	Gerhard Strydom, INL
8:10	Department of Energy Perspective	Tim Beville, DOE-NE
8:20	ART GCR Program Overview	Gerhard Strydom, INL
8:30	Advanced Gas Reactor Fuel Development and Qualification Program Overview	Paul Demkowicz, INL
8:45	Post-irradiation Examination (PIE) Overview	John Stempien, INL
9:05	AGR-2 Compact Destructive PIE and Safety Testing	John Hunn, ORNL
9:30	Break	
9:45	Scanning Electron Microscopy of Irradiated TRISO Fuel Particles	Tyler Gerczak, ORNL
10:15	Advanced Microscopy at Idaho National Laboratory	Isabella van Rooyen, INL
10:40	FITT Testing and Characterization Support for Oxidation Studies	Tyler Gerczak, ORNL

11:00 Adjourn

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July 14-16, 2020 GoToWebinar

July 14, 2020 GCR Fuels Program Session 2 (All Times MT)

12:00	AGR-3/4 PIE	John Stempien, INL
12:30	AGR-3/4 Modeling and Transport Parameters	Paul Humrickhouse, INL
12:50	AGR-3/4 Reirradiation Heating Tests	John Stempien, INL
13:20	Break	
13:35	AGR-5/6/7 Irradiation Summary as of the End of Cycle 167A	Joe Palmer, INL
14:00	Fission Gas Monitoring for the AGR-5/6/7 Experiment	Dawn Scates, INL
14:20	AGR-5/6/7 Irradiation Experiment: Summary Status and Path Forward	Paul Demkowicz, INL
14:25	AGR-5/6/7 PIE Preparations	John Stempien, INL
14:55	Adjourn	

July 14-16, 2020 GoToWebinar

July 15, 2020 GCR Fuels Program Session 3 (All Times MT)

UCO TRISO Topical Report Update AGR Program Path Forward AGR Program Wrap-up Discussion	Paul Demkowicz, INL Paul Demkowicz, INL All
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AGR Program Wrap-up Discussion	All
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Break	
Multi-scale Computer Simulation and Experimental Validation of Fission Product Diffusion in Silicon Carbide (NEET-NSUF)	Fei Gao, University of Michigan
Radioisotope Retention in Graphite and Graphitic Materials Nuclear Energy University Program	Sudarshan K. Loyalka, University of Missouri
Mechanisms of Retention and Transport of Fission Products in Virgin and Irradiated Nuclear Graphite	Kevin Coffey, University of Central Florida
	Break Multi-scale Computer Simulation and Experimental Validation of Fission Product Diffusion in Silicon Carbide (NEET-NSUF) Radioisotope Retention in Graphite and Graphitic Materials Nuclear Energy University Program Mechanisms of Retention and Transport of Fission

10:45 Adjourn

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July 14-16, 2020 GoToWebinar

July 15, 2020 GCR Graphite Program Session 4 (All Times MT)

12:00	ART Graphite R&D Introduction	Will Windes, INL
12:10	Graphite Baseline Status	Austin Matthews, INL
12:30	Irradiated Graphite Data and Analysis (Advanced Graphite Creep [AGC] Data)	Will Windes, INL
12:55	ART Graphite Irradiation Update (From AGC to HDG)	Michael Davenport, INL
13:15	Oxidation and Material Property Effects on Graphite	Rebecca Smith, INL
13:40	Break	
14:00	Microstructural Characterization and Irradiation Damage Studies of Graphite	Nidia Gallego, ONRL
14:20	Modeling Graphite Behavior (Fracture and Oxidation)	Joseph Bass, INL
14:45	ASME Graphite and Ceramic Composites (Nonmetallic) Core Components code and ASTM standards development	Wilna Geringer, ORNL
15:10	Discussion	All

15:30 Adjourn

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July 14-16, 2020 GoToWebinar

July 16, 2020 GCR Advanced Materials and Experimental/Simulation Methods

Session 5 (All Times MT)

8:00	Advanced Materials Program Summary	Michael McMurtrey, INL
8:30	High Temperature Gas-Cooled Reactor (HTGR) Simulation Methods and International Collaborations	Sonat Sen, Gerhard Strydom, INL
9:00	Water-Cooled Natural Convection Shutdown Heat- Removal Test Facility (NSTF) Data and Status	Darius Lisowski, ANL
9:30	Integral System Testing for Prismatic Block Core Design HTGR at the Oregon State High Temperature Test Facility	Brian Woods, Izabela Gutowska, Oregon State University
9:55	Break	
10:10	RELAP5-3D Assessment of High Temperature Test Facility (HTTF) test PG-26 Depressurized Conduction Cooldown (DCC) Data	James Wolf, Aaron Epiney, INL
10:35	Computational fluid dynamics (CFD) and System Code Benchmark Data for Plenum-to-Plenum Flow Under Natural, Mixed and Forced Circulation Conditions	Austin Parker, Barton Smith, Utah State University
11:00	Experimental Determination of Helium/air Mixing in Helium Cooled Reactor	Zachary Welker, Victor Petrov, University of Michigan
11:25	High-resolution Experiments for Extended LOFC and Steam Ingress Accidents in HTGR	Xiaodong Sun, Chengqi Wang,