

GAIN-EPRI-NEI Advanced Fuels Workshop

Boise State University • March 5-6, 2019



DRAFT Agenda

March 5, 2019

Overview/Advanced Reactor Industry Needs

8:00	Welcome	Rita Baranwal, GAIN
8:05	BSU Nuclear Perspective	Dr. Brian Jaques, BSU
8:20	Welcome to Idaho from the Director of Intergovernmental Affairs, Office of Idaho Governor Brad Little	Bobbi-Jo Meuleman
8:40	Introductions and Workshop Overview	Steve Hayes, INL
	TWG Reports on Fuel RD&D Needs (informed by Survey)	
9:00	<ul style="list-style-type: none">High Temperature Reactor	Dan Brown, X-Energy Micah Hackett, Kairos Power
9:45	Break	
10:00	<ul style="list-style-type: none">Molten Salt Reactor	Matt Lish, Flibe Energy
10:45	<ul style="list-style-type: none">Fast Reactor	Jake DeWitte, Oklo
11:30	Lunch on your own	

Nuclear Fuel Development Capabilities

	Overview of Fuel Development Capabilities	Session Leads
1:00	High Temperature Reactors	Paul Demkowicz, INL
2:00	Break	
2:15	Molten Salt Reactors	Lou Qualls, ORNL
3:15	Break	
	Fast Reactors	
3:30	<ul style="list-style-type: none">Fabrication and Characterization	Randy Fielding, INL
3:50	<ul style="list-style-type: none">Irradiation Testing (<i>Steady state and transient</i>)	Dan Wachs, INL
4:15	<ul style="list-style-type: none">PIE and Out-Of-Pile Testing	Jason Harp, INL
4:40	<ul style="list-style-type: none">Performance Assessment	Pavel Medvedev, INL
5:00	Adjourn BSU Student Poster Session	

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March 6, 2019

Future Capability / Breakout Sessions

8:00	Fast Spectrum Testing: VTR	Doug Crawford, INL
8:20	NSUF: Fuel & Materials Development	Rory Kennedy, INL
8:40	HALEU: Status	Monica Regalbuto, INL Everett Redmond, NEI
9:10	X-Energy Fuel Production Capabilities	Dan Brown, X-Energy
9:30	<i>Breakout Sessions: What is needed to fill the gaps?</i> <ul style="list-style-type: none">• Molten Salt Reactor• High Temperature Reactor• Fast Reactor	Session Leads Matt Lish, Flibe Energy Lou Qualls, ORNL Micah Hackett, Kairos Power Paul Demkowicz, INL Jake DeWitte, Oklo Doug Porter, INL Steve Hayes, INL
Noon	Lunch on your own	

Overview/Advanced Reactor Industry Needs

	<i>Breakout Sessions Reports and Discussion</i>	Session Leads
1:30	<ul style="list-style-type: none">• Molten Salt Reactor / 15 minute Q&A	Matt Lish, Flibe Energy Lou Qualls, ORNL
2:00	<ul style="list-style-type: none">• High Temperature Reactor / 15 minute Q&A	Micah Hackett, Kairos Power Paul Demkowicz, INL
2:30	<ul style="list-style-type: none">• Fast Reactor / 15 minute Q&A	Jake DeWitte, Oklo Doug Porter, INL Steve Hayes, INL
3:00	Break	
3:15	Engagement Opportunities	John Jackson, GAIN
3:30	Summary Discussion / Path Forward	Steve Hayes, INL
4:00	BSU Tour	
5:00	Adjourn	

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Acronyms

BSU	Boise State University
GAIN	Gateway for Accelerated Innovation in Nuclear
HALEU	High-Assay Low-Enriched Uranium
INL	Idaho National Laboratory
NEI	Nuclear Energy Institute
NSUF	Nuclear Science User Facilities
ORNL	Oak Ridge National Laboratory
Q&A	Questions & Answers
VTR	Versatile Test Reactor