

# 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 / 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
	<b><i>TWG Reports on Fuel RD&amp;D Needs (informed by Survey)</i></b>	
9:00	<ul style="list-style-type: none"><li>High Temperature Reactor</li></ul>	Dan Brown, X-Energy Micah Hackett, Kairos Power
9:45	<b>Break</b>	
10:00	<ul style="list-style-type: none"><li>Molten Salt Reactor</li></ul>	Matt Lish, Fluor Energy
10:45	<ul style="list-style-type: none"><li>Fast Reactor</li></ul>	Jake DeWitte, Oklo
11:30	<b>Lunch on your own</b>	

### Nuclear Fuel Development Capabilities

	<b><i>Overview of Fuel Development Capabilities</i></b>	<b>Session Leads</b>
1:00	High Temperature Reactors	Paul Demkowicz, INL
2:00	<b>Break</b>	
2:15	Molten Salt Reactors	Lou Qualls, ORNL
3:15	<b>Break</b>	
	Fast Reactors	
3:30	<ul style="list-style-type: none"><li>Fabrication and Characterization</li></ul>	Randy Fielding, INL
3:50	<ul style="list-style-type: none"><li>Irradiation Testing (<i>Steady state and transient</i>)</li></ul>	Dan Wachs, INL
4:15	<ul style="list-style-type: none"><li>PIE and Out-Of-Pile Testing</li></ul>	Jason Harp, INL
4:40	<ul style="list-style-type: none"><li>Performance Assessment</li></ul>	Pavel Medvedev, INL
5:00	<b>Adjourn</b> 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	<b><i>Breakout Sessions: What is needed to fill the gaps?</i></b> <ul style="list-style-type: none"><li>• Molten Salt Reactor</li><li>• High Temperature Reactor</li><li>• Fast Reactor</li></ul>	<b>Session Leads</b> 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*

	<b><i>Breakout Sessions Reports and Discussion</i></b>	<b>Session Leads</b>
1:30	<ul style="list-style-type: none"><li>• Molten Salt Reactor / 15 minute Q&amp;A</li></ul>	Matt Lish, Flibe Energy Lou Qualls, ORNL
2:00	<ul style="list-style-type: none"><li>• High Temperature Reactor / 15 minute Q&amp;A</li></ul>	Micah Hackett, Kairos Power Paul Demkowicz, INL
2:30	<ul style="list-style-type: none"><li>• Fast Reactor / 15 minute Q&amp;A</li></ul>	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

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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