

# NSUF Industry Advisory Meeting

**Electric Power Research Institute (EPRI)  
1200 West W.T. Harris Boulevard; Charlotte, NC  
Building 3, Room 919 A&B  
October 8-9, 2018**

The Nuclear Science User Facilities (NSUF) Industry Advisory Meeting is hosted by the Electric Power Research Institute (EPRI) and organized by the Department of Energy Office of Nuclear Energy (DOE-NE) NSUF program and the DOE-NE GAIN (Gateway for Accelerated Innovation in Nuclear) initiative. It is an opportunity for the nuclear power industry to find out what the NSUF is, how it can benefit the industry, and how to get involved. It is also intended to be an open forum for providing feedback to the program so that it continues to be a valuable asset to the nation. Invitees are encouraged to come prepared with questions for NSUF and GAIN and to think about how NSUF can be leveraged for their company's benefit.

## **Meeting Objectives:**

- *Provide update for participants on NSUF development progress, specifically on capability for material and fuels development.*
- *Identify synergy between NSUF, GAIN, EPRI, and DOE programs.*
- *Discuss new and ongoing NSUF university experiments that may be of interest to industry and NRC.*
- *Obtain feedback from participants on NSUF historic performance and future direction.*
- *Gather industry's needs for early development research on materials.*
- *Provide opportunity for feedback from the nuclear industry community.*

For more information on NSUF, please visit their website at <https://nsuf.inl.gov/Page/about>

The Nuclear Science User Facilities (NSUF) offers unparalleled research opportunities for nuclear energy researchers. Users are provided access (at no cost to the researcher) to world-class nuclear research facilities, technical expertise from experienced scientists and engineers, and assistance with experiment design, assembly, safety analysis and examination.

Directions to EPRI are available at this link:

<https://goo.gl/maps/hAiB3hue74E2>

# NSUF Industry Advisory Meeting

**AGENDA: October 8, 2018**

Eastern Time

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<b>8:00 a.m.</b>	<b>Registration / Refreshments</b>	
8:30 a.m.	<sup>1</sup> Welcome / Introductions / Objectives / Agenda	John Jackson (NSUF/GAIN) Anne Demma (EPRI)
8:45 a.m.	EPRI Remarks	Steve Swilley (EPRI)
9:15 a.m.	<sup>2</sup> NSUF Status and Updates	Rory Kennedy (NSUF)
<b>10:15 a.m.</b>	<b>Break</b>	
10:30 a.m.	<sup>3</sup> GAIN Overview / NSUF Collaboration	Rita Baranwal (GAIN)
11:00 a.m.	<sup>4</sup> NSUF Nuclear Energy Infrastructure Database (NEID) and Combined Materials Experiment Toolkit (CoMET)	Brenden Heidrich (NSUF)
11:45 a.m.	<sup>5</sup> NSUF Fuels and Materials Understanding Scale (FaMUS) and NSUF Industry Impact Highlights	Simon Pimblott (NSUF)
12:15 p.m.	<sup>6</sup> NSUF Nuclear Fuels and Materials Library (NFML)	Kelly Cunningham (NSUF)
<b>12:30 p.m.</b>	<b>Lunch</b>	
2:00 p.m.	<sup>7</sup> The MOOSE Herd and Access Through NSUF	Rich Martineau (INL)
2:45 p.m.	<sup>8</sup> Ion Beam Roadmap and Use of Ion Irradiation as a Surrogate for Neutron Irradiation	Simon Pimblott (NSUF)
<b>3:15 p.m.</b>	<b>Break</b>	
3:30 p.m.	<sup>9</sup> NSUF User Experiment 1 – EPRI	Ken Yeuh (EPRI)
4:00 p.m.	<sup>10</sup> NSUF User Experiment 2 - GEH	Fran Bolger (GEH)
4:30 p.m.	Closing Comments / Agenda Day 2	John Jackson (NSUF/GAIN)
<b>5:00 p.m.</b>	<b>Adjourn</b>	

\*Presentation Number

# NSUF Industry Advisory Meeting

**AGENDA: October 9, 2018**

Eastern Time

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<b>8:00 a.m.</b>	<b>Registration / Refreshments</b>	
8:30 a.m.	Welcome/Review	John Jackson (NSUF/GAIN)
8:45 a.m.	<sup>11</sup> Response to Halden Facility Capability Void	Colby Jensen (INL)
9:15 a.m.	<sup>12</sup> I3 Field Sensors and Instrumentation	Patrick Calderoni (INL)
<b>10:00 a.m.</b>	<b>Break</b>	
10:15 a.m.	<sup>13</sup> MSR Overview / Needs / Impressions	Nick Smith (Southern Co)
10:45 a.m.	FR Overview / Needs / Impressions	Fran Bolger (GEH)
11:15 a.m.	<sup>14</sup> HTGR Overview / Needs / Impressions	Peter Hastings (Kairos Power)
<b>11:45 p.m.</b>	<b>Lunch</b>	
1:30 p.m.	Discussion: Cross-cutting Industry Needs/CINR	John Jackson/Lori Braase
2:30 p.m.	Summary Discussion Feedback on NSUF Capability, Process, FOA, CINR, NSUF/GAIN Interactions,	Anne Demma /John Jackson
<b>4:00 p.m.</b>	<b>Adjourn</b>	

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