



**Nuclear Science User Facilities (NSUF)  
Users Meeting 2015 Schedule  
June 22-25**

**Monday, June 22**

8:00 – 8:30 a.m. MDT Registration and check-in

**NSUF Users Meeting 2015: Introductory Workshop**

8:30 – 8:35 a.m. MDT	Welcome	<i>Rory Kennedy</i> NSUF Director
8:35 – 8:40 a.m. MDT	Welcome by DOE-ID	<i>Ray Furstenu</i> Deputy Manager United States Department of Energy-ID
8:40 – 9:00 a.m. MDT	Welcome by DOE-HQ	<i>Michael Worley</i> Office of Innovative Nuclear Research United States Department of Energy
9:00 – 9:20 a.m. MDT	Welcome by User Organization	<i>David Senor</i> NSUF User Organization Chair
9:20 – 9:45 a.m. MDT	NSUF Overview	<i>Dan Ogden</i> NSUF Deputy Director
9:45 – 10:15 a.m. MDT	Solicitation Overview	<i>Jeff Benson</i> NSUF Program Administrator
10:15 – 10:45 a.m. MDT	Break	
10:45 – 11:15 a.m. MDT	Nuclear Energy Infrastructure Database	<i>Brenden Heidrich</i> NSUF R&D Infrastructure Lead

**Skills Development Workshop – Irradiation Test Design**

11:15 – 11:45 a.m. MDT	ATR Irradiation Test Design Configurations	<i>Kevin Clayton</i> Idaho National Laboratory
11:45 – 12:15 p.m. MDT	Thermal Design and Analysis of ATR Capsule Experiments	<i>Paul Murray</i> Idaho National Laboratory
12:15 – 1:15 p.m. MDT	Lunch (on your own)	
1:15 – 1:50 p.m. MDT	Advanced Instrumentation Development at Idaho National Laboratory	<i>Troy Unruh</i> Idaho National Laboratory



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**Skills Development Workshop – Beamline and Ion Radiation/Partner Capabilities**

1:50 – 2:25 p.m. MDT	Nuclear Research at MRCAT	<i>Jeff Terry</i> Illinois Institute of Technology
2:25 – 3:00 p.m. MDT	Break	
3:00 – 3:35 p.m. MDT	Ion-irradiation and Material Characterization Capabilities at University of Wisconsin-Madison	<i>Ben Maier</i> University of Wisconsin-Madison

**Skills Development Workshop – PIE Considerations**

3:35 – 4:05 p.m. MDT	PNNL Partner Facility Capabilities	<i>David Senor</i> Pacific Northwest National Laboratory
4:05 – 4:30 p.m. MDT	TREAT Overview	<i>Dan Wachs</i> Idaho National Laboratory

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**Tuesday June 23**

**Skills Development Workshop – PIE Considerations**

8:30 – 9:10 a.m. MDT	Hot Cell Post Irradiation Examination	<i>Adam Robinson</i> Idaho National Laboratory
9:10 – 9:50 a.m. MDT	Nuclear Materials Research at the Westinghouse Hot Cells: Supporting Fleet Operations for 40 Years	<i>Paula Freyer</i> Westinghouse Materials Center
9:50 – 10:20 a.m. MDT	Break	
10:20 – 11:00 a.m. MDT	Microstructural Investigations of Irradiated Fuels and Materials	<i>Jim Cole</i> NSUF Chief Scientist
11:00 – 11:40 a.m. MDT	IMCL Equipment and Capabilities	<i>Collin Knight</i> Idaho National Laboratory
11:40 – 12:20 p.m. MDT	PIE of UZrHx Fuel and Lessons Learned	<i>Andy Casella</i> Pacific Northwest National Laboratory
12:20 – 1:30 p.m. MDT	Lunch (on your own)	
1:30 – 2:10 p.m. MDT	Ion and Laser Irradiation Capabilities for Materials Characterization at CMUXE	<i>Prasoon Diwakar</i> Purdue University



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Purdue

**Technical Sessions from NSUF Experimenters**

2:10 – 2:50 p.m. MDT	3D Characterization of Irradiated Fuels and Materials	<i>Melissa Teague</i> Idaho National Laboratory
2:50 – 3:20 p.m. MDT	Break	
3:20 – 4:00 p.m. MDT	Neutron Irradiation of MAX Phases	<i>Darin Tallman</i> Drexel

**NSUF Users Organization Meeting**

4:00 – 5:00 p.m. MDT	Annual Users Organization Meeting	<i>David Senor</i> NSUF User Organization Chair
		<i>Peng Xu</i> NSUF User Organization Chair-Elect

**NSUF Users Meeting 2015: User's meeting 2015 Social/Poster Session**

5:00 – 5:30 p.m. MDT	Poster Session Set-Up
5:30 – 8:00 p.m. MDT	Social/ Poster Session

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**Wednesday, June 24**

**Technical Sessions from NSUF Experimenters**

8:30 – 9:00 a.m. MDT	Results of NSUF Ultrasonic Transducer Irradiation Experiment	<i>Joshua Daw</i> Idaho National Laboratory
9:00 – 9:30 a.m. MDT	Synchrotron Characterization of SiC Coating Layer in High Burnup TRISO Fuel Particles	<i>Kurt Terrani</i> Oak Ridge National Laboratory
9:30 – 10:00 a.m. MDT	Identification of Nano Crystallographic Parameters of Irradiated SiC to Understand Fission Product Transport	<i>Isabella Van Rooyen</i> Idaho National Laboratory
10:00 – 10:30 a.m. MDT	Break	
10:30 – 11:00 a.m. MDT	Role of Solid Solution Strengthening In Irradiated F/M and ODS Alloys	<i>Janelle Wharry</i> Boise State University
11:00 – 11:30 p.m. MDT	Radiation-induced Segregation/Depletion	<i>Emmanuelle Marquis</i>



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	At Grain Boundaries	University of Michigan
11:30 –12:00 p.m. MDT	An Overview of University of California-Berkeley NSUF Capabilities	<i>Peter Hosemann</i> University of California – Berkeley
12:00 – 1:00 p.m. MDT	Lunch (on your own)	
1:00 – 1:30 p.m. MDT	Irradiation and PIE Capabilities at the MIT Research Reactor	<i>Lin-wen Hu</i> Massachusetts Institute of Technology
1:30 – 2:00 p.m. MDT	An Overview of the PULSTAR Reactor and Capabilities for Materials Examination and Analysis	<i>Ayman Hawari</i> North Carolina State University
2:00 – 2:30 p.m. MDT	Overview of the Michigan Ion Beam Laboratory (MIBL) and Irradiated Materials Testing Laboratory (IMTL) at the University of Michigan	<i>Gary Was</i> University of Michigan
2:30 – 3:00 p.m. MDT	Break	
3:00 – 3:30 p.m. MDT	Mechanical/Thermal Properties and Microstructural Characterization Capabilities at ORNL	<i>Keith Leonard</i> Oak Ridge National Laboratory
3:30 –4:00 p.m. MDT	INL High Performance Computing for NSUF	<i>Eric Whiting</i> Idaho National Laboratory

**Thursday, June 25**

**Facility Tours**

6:45 a.m. – 3:30 p.m. MDT INL Site Tour  
 8:00 a.m. – 12:00 p.m. (local time) Partner Facility Tours