



**ATR National Scientific User Facility
Draft Users Week 2009 Schedule
June 1-5, 2009
Idaho Falls, ID**

Monday, June 1, 2009

Monday, June 1 – University Place, Center for Higher Education (CHE) Building, Room 211

ATR NSUF User Week 2009: User Information Workshop

8:00 – 8:30 a.m.	Registration	
8:30 – 8:40 a.m.	Welcome and Course Introduction	<i>Todd Allen</i> Scientific Director, ATR NSUF Idaho National Laboratory
8:40 – 8:50 a.m.	Welcome by DOE-HQ	<i>Rebecca Smith-Kevern</i> Deputy Assistant Secretary for Nuclear Power Development, DOE-NE United States Department of Energy
8:50 – 9:00 a.m.	Welcome by DOE-ID	<i>Ray Furstenu</i> Deputy Manager, Idaho Operations Office United States Department of Energy
9:00 – 9:50 a.m.	ATR Reactor Capabilities Overview	<i>Frances Marshall</i> ATR Experiment Program Manager Idaho National Laboratory
9:50 – 10:20 a.m.	Break	
10:20 – 11:20 a.m.	ATR NSUF Post Irradiation Capabilities Overview	<i>Bruce Hilton</i> Idaho National Laboratory
11:20 – 11:40 p.m.	Education Programs Overview	<i>Jeff Benson</i> ATR NSUF Programs Idaho National Laboratory
11:40 – 12:00 p.m.	Solicitation Overview Partnerships Overview	<i>Mary Catherine Thelen</i> ATR NSUF Programs Idaho National Laboratory
12:00 – 1:15 p.m.	Working Lunch/Speaker	<i>Art Clark</i> Deputy Laboratory Director Idaho National Laboratory

Monday, June 1 – University Place, Center for Higher Education (CHE) Building, Room 211

ATR NSUF User Week 2009: Research Forum

1:15 – 1:30 p.m. Registration (for those who did not register in the morning)



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1:30 – 2:00 p.m.	ATR NSUF Experiment Types	<i>Mitch Meyer</i> ATR NSUF Scientific Program Manager Idaho National Laboratory
2:00 – 2:20 p.m.	NNSA RERTR Program Research Needs	<i>Dan Wachs</i> Idaho National Laboratory
2:20 – 2:35 p.m.	GE-Global Nuclear Fuels Using NSUF	<i>Doug Crawford</i> GE-Global Nuclear Fuels
2:35 – 2:50 p.m.	DOE AFCI	<i>Doug Porter</i> Idaho National Laboratory
2:50 – 3:30 p.m.	Break and informal discussions	
3:30 – 3:45 p.m.	DOE NGNP	<i>Dave Petti</i> Idaho National Laboratory
3:45 – 4:00 p.m.	EPRI Research Priorities Using NSUF	<i>Peter Chou</i> Electric Power Research Institute
4:00 – 4:15 p.m.	NRC Research/EAC Activity	<i>Sri Rao</i> Nuclear Regulatory Commission
4:15 – 4:30 p.m.	Westinghouse Research Priorities Using NSUF	<i>Michael Burke</i> Westinghouse
4:30 – 4:45 p.m.	GE-Hitachi Research Priorities Using NSUF	<i>Larry Nelson</i> GE-Global Research

Tuesday, June 2, 2009

Tuesday, June 2 – University Place, Center for Higher Education (CHE) Building, Room 211

ATR NSUF User Week 2009: Research Forum (continued from Monday)

8:00 – 9:30 a.m.	Poster Session of NSUF University Projects	
9:30 – 10:00 a.m.	Break	
10:30- 11:30 a.m.	Discussion on Potential Industry/ Laboratory/University Collaborations	<i>Todd Allen</i> Scientific Director, ATR NSUF Idaho National Laboratory



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Tuesday, June 2 – University Place, Center for Higher Education (CHE) Building, Room 213

ATR NSUF User Week 2009: Fuels and Materials Course

- 7:30 – 8:00 a.m. Registration (for those who did not register Monday)
- 8:00 – 8:30 a.m. Welcome and Course Introduction *Todd Allen/Rebecca Smith-Kevern*
Scientific Director, ATR NSUF
Idaho National Laboratory/ Deputy Assistant Secretary
for Nuclear Power Development, DOE-NE
United States Department of Energy
- 8:30 – 10:00 a.m. Corrosion Basics *Roger Staehle*
Staehle Consulting
- 10:00 – 10:30 a.m. Break
- 10:30 – 11:45 a.m. Radiation Damage Basics *Jeremy Busby*
Oak Ridge National Laboratory

Tuesday, June 2 – Site Tour #1, (ATR, ATR-C and MFC)

ATR NSUF User Week 2009: Site Tour #1- This afternoon is an optional tour of the post irradiation facilities at the INL Materials and Fuels Complex (MFC) as well as a tour of the Advanced Test Reactor and Advanced Test Reactor Critical Facility. You must register in advance for these tours.

Group #1 (Bus #1)

- 12:00 – 1:30 p.m. Transport with Working lunch/speaker *Don Miley/Carisa Schultz*
(INL History) to Reactor Technology
Complex (RTC) Community Relations
Idaho National Laboratory
- 1:30 – 2:30 p.m. Tour of ATR and ATR-C
- 2:30 – 3:30 p.m. Transport to Materials and Fuels Complex
- 3:30 – 5:00 p.m. Tour:

Hot Fuel Examination Facility (HFEE) Hot Cell

Analytical Laboratory Tour (AL)

Electron Microscopy Laboratory Tour (EML)
- 5:00 – 6:00 p.m. Transport to Idaho Falls (UP). Drop
scholarship off at Guesthouse Inn &
Suites then to UP



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Group #2 (Bus #2)

- 12:00 – 1:00 p.m. Transport with Working Lunch/Speaker *Don Miley/Carisa Schultz*
(INL History) to Materials and Fuels Community Relations
Complex (MFC) Idaho National Laboratory
- 1:00 – 2:30 p.m. Tour:
- Hot Fuel Examination Facility (HFEF) Hot Cell
- Analytical Laboratory Tour (AL)
- Electron Microscopy Laboratory Tour (EML)
- 2:30 – 3:30 p.m. Transport to Reactor Technology Complex (RTC)
- 3:30 – 4:30 p.m. Tour of ATR and ATR-C
- 5:00 – 6:00 p.m. Transport to Idaho Falls UP. Drop
scholarship off at Guesthouse Inn &
Suites then to UP
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Wednesday, June 3, 2009

Wednesday, June 3 – University Place, Center for Higher Education (CHE) Building, Room 211

ATR NSUF User Week 2009: Synchrotron Radiation Workshop

- 8:00 – 8:30 a.m. Registration (for those who did not register Monday)
- 8:30 – 9:20 a.m. Introduction to Synchrotron Radiation *Jeff Terry*
Techniques Illinois Institute of Technology
- 9:20 – 9:50 a.m. Opportunities for Nuclear Materials *Jonathan Almer*
Studies Using Advanced Photon Source Argonne National Laboratory
High-Energy Synchrotron X-Rays
- 9:50 – 10:10 a.m. Corrosion and Hydriding in Nuclear *Djamel Kaoumi*
Alloys Studied with Synchrotron Pennsylvania State University
Radiation
- 10:10 – 10:30 a.m. Advanced Photon Source Applications *James Stubbins*
for Understanding and Modeling the University of Illinois
Performance of Reactor Materials Under *Meimei Li*
Tensile Loading Conditions Argonne National Laboratory
- 5:00 – 6:00 p.m. Control of a Remote Experiment at *Jeff Terry*
The Advanced Photon Source Illinois Institute of Technology
Meimei Li



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Argonne National Laboratory

Wednesday, June 3 – Laboratory Tour #2, (IRC materials testing labs)

ATR NSUF User Week 2009: Materials Testing Laboratories- This morning is the second optional tour of the materials testing laboratories at the INL Research Center

(Two Buses)

8:30 – 10:00 a.m.	Tour IRC Materials Testing Labs <i>University Place to IRC and back</i>	<i>Don Miley</i> Community Relations Idaho National Laboratory
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Wednesday, June 3 – University Place, Center for Higher Education (CHE) Building, Room 213

ATR NSUF User Week 2009: Fuels and Materials Course (continued from Tuesday)

10:30 – 12:00 a.m.	Light Water Reactor Materials Issues	<i>Larry Nelson</i> GE-Global Research
12:00 – 1:30 p.m.	Working Lunch/Speaker Responding to Nuclear Workforce Needs	<i>Lee Peddicord</i> Texas A&M University
1:30 – 3:00 p.m.	LWR Fuel Performance	<i>Doug Crawford</i> GE-Global Nuclear Fuels
3:00 – 3:30 p.m.	Break	
3:30 – 4:45 p.m.	NDE of Reactor Materials	<i>Joe Wall</i> Electric Power Research Institute (EPRI)

Wednesday, June 3 – Center for Advanced Energy Studies (CAES) Gallery

ATR NSUF User Week 2009: User week 2009 Dinner

6:30 – 8:00 p.m.	Social/ Working Dinner/Speaker	<i>David Hill</i> Deputy Laboratory Director Idaho National Laboratory
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Thursday, June 4, 2009

Thursday, June 4 – University Place, Center for Higher Education (CHE) Building, Room 213

ATR NSUF User Week 2009: Fuels and Materials Course (continued from Wednesday)

8:30 – 10:00 a.m.	Fast Reactor Materials	<i>Stu Maloy</i> Los Alamos National Laboratory
10:00 – 10:30 a.m.	Break	
10:30 – 12:00 p.m.	Reactor Materials Modeling	<i>Roger Stoller</i> Oak Ridge National Laboratory
12:00 – 1:30 p.m.	Working Lunch/Speaker Materials Research Challenges for Fission Power in the UK	<i>Andrew Sherry</i> University of Manchester
1:30 – 3:00 p.m.	Conducting an Integrated Experimental Modeling Program	<i>Steve Zinkle</i> Oak Ridge National Laboratory
3:00 – 3:30 p.m.	Break	
3:30 – 5:00 p.m.	Student Poster Session	

Thursday, June 4 – University Place, Center for Higher Education (CHE) Building, Room 204

ATR NSUF User Week 2009: Experimenter Course

7:30 – 7:45 a.m.	Registration (for those who did not register at an earlier time)	
7:45 – 8:00 a.m.	Welcome and Course Introduction	<i>Todd Allen/Rebecca Smith-Kevern</i> Scientific Director, ATR NSUF Idaho National Laboratory/ Deputy Assistant Secretary for Nuclear Power Development, DOE-NE United States Department of Energy
8:00 – 9:30 a.m.	Overview of Experimental Design	<i>David Senior</i> Pacific Northwest National Laboratory
9:30 – 9:45 a.m.	Break	
9:45 – 10:45 p.m.	Experimental Design	<i>Blaine Grover</i> Idaho National Laboratory



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10:45 – 11:45 a.m.	Post Irradiation Analysis	<i>Adam Robinson</i> Idaho National Laboratory
12:00 – 1:30 p.m.	Working Lunch/Speaker Materials Research Challenges for Fission Power in the UK	<i>Andrew Sherry</i> University of Manchester
1:30 – 3:45 p.m.	Tools for Neutronic Analysis	<i>Jim Parry</i> Idaho National Laboratory
3:45 – 4:00 p.m.	Break	
4:00 – 5:30 p.m.	In-core Instrumentation	<i>Gordon Kohse</i> Massachusetts Institute of Technology

Thursday, June 4 – University Place, Center for Higher Education (CHE) Building, Room 302

IAEA Consultancy Meeting

1:30 – 5:30 p.m.	IAEA Consultancy Breakout Meeting: IAEA activities directly related to RR operation, maintenance and material research	<i>Andrej Zeman/Edward Bradley</i> IAEA
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Friday, June 5, 2009

Friday, June 5 – University Place, Center for Higher Education (CHE) Building, Room 213

ATR NSUF User Week 2009: Fuels and Materials Course (continued from Thursday)

8:30 – 10:00 a.m.	Numerical and Experimental Simulation for Improving Nuclear Fuel Codes	<i>Carole Valot</i> Commissariat à l'énergie atomique (CEA)
10:00 – 10:30 a.m.	Break	
10:30 – 12:00 p.m.	Fast Reactor Fuel	<i>Steve Hayes</i> Idaho National Laboratory
12:00 – 1:30 p.m.	Working Lunch/Speaker	<i>Dan Yurman</i> Idaho Samizdat-Blog
1:30 – 3:00 p.m.	Gas Reactor Fuels Modeling Program	<i>Dave Petti</i> Idaho National Laboratory



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Friday, June 5 – University Place, Center for Higher Education (CHE) Building, Room 204

ATR NSUF User Week 2009: Experimenter Course (continued from Thursday)

8:00 – 9:00 a.m.	Experimental Design Part II	<i>Heather Maclean</i> Idaho National Laboratory
9:00 – 10:15 a.m.	Thermal Analysis	<i>Dan Wachs</i> Idaho National Laboratory
10:15 – 10:30 a.m.	Break	
10:30 – 12:00 p.m.	Flow Testing/Thermal Lab	<i>Dan Wachs/Heather Maclean</i> Idaho National Laboratory
12:00 – 1:30 p.m.	Working Lunch/Speaker	<i>Dan Yurman</i> Idaho Samizdat (Blog)
1:30 – 3:00 p.m.	Flow Testing/Thermal Lab continued	<i>Dan Wachs/Heather Maclean</i> Idaho National Laboratory