

ional University Consortium (NUC) & Center for Advanced Energy Studies (CAES) CINR Workshop August 21-22, 2018

Tuesday, August 21, 2018

Energy Innovation Laboratory (775 University Boulevard, Idaho Falls, ID 83415)

7:30 a.m. Coffee and sign-in

8:00 a.m. Welcome and Introductions Noel Bakhtian
Director, Center for Advanced Energy Studies

Marsha Bala
Deputy Director, National University Consortium

8:30 a.m. Breakout Sessions 1

A111: (RC-9) Risk Informed Systems Analysis R&D Pathway Diego Mandelli
R&D Scientist, Risk Assessment and Management Services

Cristian Rabiti
Department Manager, Nuclear Engineering Methods Development

A112: (MS-NE-2) Integral Benchmark Evaluations and
Nuclear Data Needs John Bess
R&D Nuclear Engineer, Reactor Physics Design and Analysis

A113: (FC-2.1; FC-2.3) Advanced Fuels Jason Harp
R&D Scientist and Engineer, Post Irradiation Examinations

A114: (RC-5) Experimental Validation of High Temperature
Gas Reactor (HTGR) Simulations James Wolf
Nuclear/Reactor Engineer, Nuclear Engineering Methods Development

10:00 a.m. Break

10:30 a.m. Breakout Sessions 2

A111: (FC-1.3a; FC-1.3b) Waste Form Development and Off-Gas Capture..... Jack Law
Department Manager, Aqueous Separations and Radiochemistry

Steve Frank
Senior Researcher, Pyroprocessing

A112: (NEAMS-2) Separate Effects Irradiation Testing for Validation of
 Microstructural Models in Marmot (NSUF)Yongfeng Zhang
Computational Scientist, Fuel Modeling and Simulations

A113: (RC-11) Special Purpose Reactors R&DShannon Bragg-Sitton
Department Manager, Systems Integration

A114: (RC-3) Liquid Metal-cooled Fast Reactor Technology
 Development and Demonstration to support DeploymentPiyush Sabharwall
Advanced Heat Transport Lead, Systems Integration

12:00 p.m. Lunch buffet opens

12:30 p.m. Working Lunch: INL University Partnerships OverviewAli Josephson
University Partnerships Specialist, University Partnerships

**12:30 p.m. NUC Leadership Working Lunch:
 NUC and INL University Points of Contact Meet and Greet**

Invitees:

Anne Gaffney
 Carol Smidts
 Cassiano de Oliveira
 Charles Forsberg
 Craig Reiger
 Dan Wachs
 David Chichester
 David Schoonen
 Derek Gaston
 Diego Mandelli

Doug Crawford
 Ginger Wright
 Marat Khafizov
 Marsha Bala
 Matthew Kinlaw
 Mike Miller
 Mitch Meyer
 Steven Prescott
 Wade Marcum
 Yousry Azmy

1:30 p.m. Breakout Sessions 3

A111: Advanced Data Integration for Domestic Nuclear Safeguards.....Bruce Meppen
Program Lead, Nuclear Nonproliferation

A112: (MS-FC-1) Maintaining and Building upon the
 Halden Legacy (In Situ Diagnostics)..... Colby Jensen
Thermal/Hydraulic Analyst, Fuel Design and Development

A113: (NE-2) Hybrid Energy Systems Design and ModelingShannon Bragg-Sitton
Department Manager, Systems Integration

A114: (FC-5) Fabrication Process Assessments for Cost Algorithm Jason Hansen
Senior Research Economist, Bioenergy Technologies

3:00 p.m. Break

3:30 p.m. Breakout Sessions 4

A111: (FC-1.1) Electrochemical Separations;
(FC-4.1) Used Nuclear Fuel Disposition Jack Law
Department Manager, Aqueous Separations and Radiochemistry

(FC-1.2) Materials Recovery.....Ken Marsden
Department Manager, Pyroprocessing

A112: (NEET-1) Advanced Methods for Manufacturing and
(NSUF-1.2) Irradiation Testing of Materials Produced by
Innovative Manufacturing TechniquesGabriel Ilevbare
Department Manager, Materials Science and Engineering

Steve Aumeier
Senior Advisor, Nuclear Energy Programs and Strategic Initiatives

A113: (RC-6.1) Used FHR Pebble Fuel Storage and Handling..... Phil Winston
R&D Engineer, Fuel Design and Development

5:00 p.m. Adjourn

Copper Rill (415 River Pkwy, Idaho Falls, ID 83402)

6:00 p.m. NUC Leadership Meeting and Dinner

Invitees:

*Amy Lientz
Carol Smidts
Cassiano de Oliveira
Charles Forsberg
Marat Khafizov
Marsha Bala
Todd Combs
Wade Marcum
Yousry Azmy*

Wednesday, August 22, 2018

Energy Innovation Laboratory (775 University Boulevard, Idaho Falls, ID 83415)

7:30 a.m. Coffee and sign-in

8:00 a.m. Breakout Sessions 5

A111: (RC-2.1; RC-2.2; RC-7.1; RC-7.2; RC-7.3; RC-7.4; RC-7.5)

Molten Salt Reactors Patrick Calderoni
*High Temperature Test Laboratory Group Lead
 Fusion, Hydrogen and Measurement Sciences*

A112: (NEET-2.1; NEET-2.2; NEET-2.3; NEET-3) Advanced Digital

Monitoring Vivek Agarwal
*Research and Development Scientist
 Human Factors, Controls, and Statistics*

A113: (IRP-NE-1) International Challenge Problem for
 Nuclear Energy (with Japan)

Carl Stoots
Department Manager, Fusion, Hydrogen and Measurement Sciences

A114: (RC-1) Innovative New Nickel Alloys for
 Molten Salt Reactors Structural Applications.....

Michael Glazoff
Distinguished Staff Scientist, Materials Science and Engineering

9:30 a.m. Break

10:00 a.m. Breakout Sessions 6

A111: (NE-1) Nuclear Energy Cybersecurity Research Topics and
 Metrics Analyses

Jonathan Chugg
Nuclear Cybersecurity Research Analyst, Cybercore Programs

A112: (RC-8.1; RC-8.2) Plant Modernization R&D Pathway

Vivek Agarwal
*Research and Development Scientist
 Human Factors, Controls, and Statistics*

A113: (FC-2.5) Separate Effects Testing in TREAT using
 Standard Test Capsules (NSUF)

Dan Wachs
Technical Lead, TREAT

A114: (IRP-NEAMS-1) Extend NEAMS Tools to Support Design and
 Analysis of Fast Reactors

Tony Hill
Senior Research Associate, Idaho State University

11:30 a.m. Lunch buffet opens

12:00 p.m. Working Lunch:
Nuclear Science User Facilities (NSUF)
Overview and Opportunities..... Brenden Heidrich
Chief Irradiation Scientist, NSUF

1:00 p.m. Breakout Sessions 7

A111: (NSUF-1.1) Testing of Advanced Materials or
Advanced Sensors for Nuclear Applications.....Patrick Calderoni
*High Temperature Test Laboratory Group Lead
Fusion, Hydrogen and Measurement Sciences*

A113: (RC-4.1; RC-4.2) TRISO FuelsPaul Demkowicz
Technical Lead, Advanced Reactor Technology

A114: (FC-6) Interface Tools for Transmutation Data LibraryRoss Hays
Research Associate, Software Engineering and Data Analytics

2:30 p.m. Adjourn