

National University Consortium (NUC) & Center for Advanced Energy Studies (CAES) CINR Workshop

August 14-15, 2019

Wednesday, August 14

Center for Advanced Energy Studies (995 MK Simpson, Idaho Falls, ID 83415)

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

8:00 a.m. Welcome Marianne Walck
*Deputy Laboratory Director
 Chief Research Officer*

8:10 a.m. CAES Welcome Noël Bakhtian
Director, CAES

8:20 a.m. NUC Welcome and Event Logistics Dayna Daubaras
Deputy Director, NUC

8:30 a.m. Breakout Sessions 1

Snake River Room: (FC-1.2) Electrochemical Separations Toni Karlsson
Research Scientist, Nuclear Science & Technology

Teton Room: (FC-4.1- 4.2) Used Nuclear Fuel Disposition: Disposal, Storage and Transportation Josh Jarrell
Department Manager, Nuclear Science & Technology

Auditorium: (NEAMS-1) Sam Baseline Development Rich Martineau
Director of NS&T Modeling and Simulation, Nuclear Science & Technology

(NEAMS-2) Near-Wall Gas-Flow Correlations in Pebble Bed Reactors

(IRP-NEAMS-1.1) Thermal-Fluids Applications in Nuclear Energy

9:30 a.m. Break

9:45 a.m. Breakout Sessions 2

Snake River Room: (FC-2.5) Separate Effects Testing in TREAT Using Standard Test CapsulesNicolas Woolstenhulme
Irradiation Testing and PIE Lead for the Advanced Fuels Campaign, Nuclear Science & Technology

Teton Room: (NEET-2.2) Big Data, Machine Learning, and Artificial Intelligence.....
Vivek Agarwal
Senior Research Scientist, Nuclear Science & Technology

Auditorium: (RC-7.2) Virtualized Distribution Control Systems for Nuclear Power Plants. Ron Boring
Distinguished Scientist, Nuclear Science & Technology

(RC-7.3) Reducing Human Factor uncertainty using Artificial Intelligence in Operation and Maintenance of Nuclear Power Plants

10:45 a.m. Break

11 a.m. Breakout Sessions 3

Snake River Room: (RC-5) Experimental Validation of High Temperature Gas Reactor (HTGR) SimulationsGerhard Strydom
Nuclear and Reactor Engineering Researcher, Nuclear Science & Technology

Teton Room: (NSUF-1.3) Nuclear Materials Discovery and Qualification Initiative.....
Jeff Aguiar
Principal Staff Scientist, Nuclear Science & Technology

Auditorium: (NEET-2.3) Advanced Sensors and Communication.....Tim McJunkin
Electrical and Computer Engineer Researcher, Energy & Environment S&T

12:00 p.m. Lunch buffet opens

12:15 p.m. Working Lunch: LDRD FY20 Overview Erin Searcy
Director, LDRD

1:00 p.m. Breakout Sessions 4

Snake River Room: (MS-NE-1) Integral Benchmark Evaluations John Bess
Nuclear and Reactor Engineering Researcher, Nuclear Science & Technology

(MS-NE-2) Nuclear Data Needs for Nuclear Energy Applications

Teton Room: (FC-2.3) High-Throughput and/or Micro-Scale Post-Irradiation Examination Techniques to Support Accelerated Fuel Testing Luca Capriotti
Nuclear Research Facility Engineer, Materials & Fuels Complex

2:00 p.m. Break

2:15 p.m. Breakout Sessions 5

Snake River Room: (NEAMS-3) Molten Salt Chemistry Modeling Michael Glazoff
Materials Engineer Researcher, Energy & Environment S&T

Teton Room: (FC-1.1) Nuclear Fuel Cycle Chemistry Don Wood
Senior Technical Advisor, Nuclear Science & Technology

Auditorium: (FC-1.3a -1.3B) Waste Forms Development and Off-Gas Capture.....
.....Kevin Tolman
Chemical Engineer Researcher, Nuclear Science & Technology

3:30 p.m. Open Collaboration

Head to the gallery to collaborate with people on topics that will not be presented in a breakout session. The tables will be labeled accordingly.

4:30 p.m. Adjourn

Thursday, August 15, 2019

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

8:00 a.m. Breakout Sessions 7

Snake River Room: (NEET-1) Advanced Methods for Manufacturing.....
.....Michael McMurtrey
Materials Scientist, Energy & Environment S&T

Teton Room: (FC-2.4) Maintaining and Building upon the Halden Legacy of IN-SITU Diagnostics Colby Jensen
Mechanical Engineer, Nuclear Science & Technology

9 a.m. Break

9:15 a.m. Breakout Sessions 8

Snake River Room: (IRP-NEAMS-1.2) Multiscale Nuclear Performance.....
Steve Novascone
Computational Scientist, Nuclear Science & Technology

Teton Room: (MS-FC-1) Understanding, Predicting, and Optimizing the Physical
 Properties, Structure, and Dynamics of Molten Salt Michael Glazoff
Materials Engineer Researcher, Energy & Environment S&T

Auditorium: (RC-4.1) TRISO Fuel Buffer Layer Behavior During Neutron Irradiation.....
 Isabella Van Rooyen
Distinguished Staff Scientist, Nuclear Science & Technology

10:15 a.m. Break

10:30 a.m. Breakout Sessions 9

Snake River Room: (RC-2.1) Micro-Reactor Deployment Markets..... Jess Gehin
Chief Scientist, Nuclear Science & Technology

(RC-2.2) Validation of Micro-Reactor Modeling and Simulation Tools

(RC-2.3) Micro-Reactor Technology Development and Maturation

Teton Room: (RC-10.1) Technologies to Support SMR Development and
 CommercializationGeorge Griffith
Department Manager, Nuclear Science & Technology

Auditorium: (RC-4.2) Robust Individual TRISO-Fueled Pebble Identification Method for
 Ex-Core Evaluation..... Isabella Van Rooyen
Distinguished Staff Scientist, Nuclear Science & Technology

11:30 a.m. Lunch buffet opens

11:45 a.m. Working Lunch: CAES StrategyNoël Bakhtian
Director, CAES

12:30 p.m. Breakout Sessions 10

Snake River Room: (RC-8) Evaluations of Physical Phenomena Data Impact and
 Improvements..... Curtis Smith
Director, Nuclear Science & Technology

Teton Room: (RC-3) Liquid Metal-Cooled Fast Reactor Technology Development and Demonstration to Support Deployment.....Piyush Sabharwall
Advanced Heat Transport Lead, Nuclear Science & Technology

Auditorium: (NSUF-1.1) Testing of Advanced Materials or Advanced Sensors for Nuclear Applications..... Brenden Heidrich
Irradiation Chief Scientist, Nuclear Science & Technology

1:30 p.m. Adjourn