

National University Consortium (NUC) & Center for Advanced Energy Studies (CAES) LDRD Workshop February 5-6, 2019

Tuesday, February 5

Energy Innovation Laboratory (775 University Boulevard, 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*

8:15 a.m. CAES Welcome.....Noel Bakhtian
Director, CAES

8:20 a.m. NUC Welcome and Event Logistics.....Marsha Bala
Deputy Director, NUC

8:30 a.m. LDRD Program and Process Overview Erin Searcy
Acting Director, LDRD Program

8:45 a.m. Breakout Sessions 1

A111: (4.1.4) Modeling and Simulation Shane Cherry
Manager, Infrastructure Analysis

A112: (4.1.1) Cyber-Informed Engineering.....Wayne Austad
Technical Director, Cybercore Integration Center

A113: (3.1) Process and Production Scale-up Robert O'Brien
Director, Advanced Manufacturing

10:15 a.m. Break

10:30 a.m. Breakout Sessions 2

A111: (4.1.5.3) Integrated all-hazards vulnerability assessments and impact analysis Shane Cherry
Manager, Infrastructure Analysis

A112: (3.4) Intersection between Manufacturing Machine Code and AI-controlled Cybersecurity Capabilities Wayne Austad
Technical Director, Cybercore Integration Center

A113: (2.2.1) Innovative Ways to Produce Commodity Feedstocks and Chemicals using Low-emissions Energy Sources Boryann Liaw
Manager, Energy Storage and Advanced Vehicles

12:00 p.m. Lunch buffet opens

12:30 p.m. Working Lunch: Versatile Test Reactor (VTR) Update Kevan Weaver
Technical Lead, Nuclear Science and Technology

1:30 p.m. Breakout Sessions 3

A111: (4.1.6) Advanced Learning Methodologies and Capabilities Ralph Ley
Manager, Workforce Development and Training

A112: (1.2) Transformational Approaches to Accelerate Nuclear RD&D Matthew Kerr
Manager, Nuclear Materials

(1.3) Deployment of the Nuclear Fuels and Materials Performance Center of Excellence Youssef Ballout
Manager, Fuel Design and Development

A113: (4.3) Improved Connectivity through Wireless Communications..... Arup Bhuyan
Wireless Communications Researcher

A114: (3.2) Innovative M&S of Materials under Extreme Conditions..... Jason Hales
Manager, Fuel Modeling and Simulation

3:00 p.m. Break

3:30 p.m. Breakout Sessions 4

A111: (4.1.5.2) Resilience metrics Craig Rieger
Chief Control Systems Research Engineer

A112: (2.1) Data Systems: A Computer-aided Cognitive
Systems with Risk Assessment and Integration in
support of AIES Tammie Borders
Manager, Software Engineering and Data Analytics

5:00 p.m. Adjourn

Wednesday, February 6, 2019

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

A112: (3.3) Multi-role and Integrated Materials Systems..... Henry Chu
Chief Technology Officer, Defense Systems

A113: (4.2) Electric Grid and Energy Infrastructure Protection..... Scott McBride
Manager, Infrastructure Security

9:30 a.m. Break

10:00 a.m. Breakout Sessions 6

A112: (4.1.3) Digital Supply Chain Virginia Wright
Manager, Domestic Nuclear Cyber Program

A113: (1.1) Transformational Nuclear System Technologies Hans Gougar
Director, Nuclear Systems Design and Analysis

11:30 a.m. Lunch buffet opens

12:00 p.m. Working Lunch: Co-STAR Technology Deployment Method ... Jason Stolworthy
Director, Technology Deployment

1:00 p.m. Breakout Sessions 7

A111: (2.2.2) Innovative Ways to Manage, Store, and Utilize Energy in AIES Boryann Liaw
Manager, Energy Storage and Advanced Vehicles

A112: (1.4) Integrated Nuclear Fuel Cycle Technologies and Solutions Josh Jarrell
Relationship Manager, Used Nuclear Fuel

2:30 p.m. Adjourn