

Advanced Sensors and Instrumentation & Boise State University Research Overview

Thursday, April 13, 2023

Attire: Business Casual

Department of Energy

Dan Nichols, Federal Program Manager, Advanced Sensors and Instrumentation

INL Participants

Patrick Calderoni – Director, Advanced Sensors and Instrumentation

Kort Bowman – Experiment Manager, Irradiation Testing

Kurt Davis – Instrument Development Researcher

Joshua Daw - Research Scientist and Engineer

Mike McMurtrey – Research Scientist, Irradiated Fuels and Materials

Tim Phero – Graduate Fellow

Richard Skifton – Instrument Development Researcher

Malwina Wilding - Nuclear Instrumentation Engineer

BSU Participants

Brian Jaques – Assistant Professor, Materials Science and Engineering, and Director of ASI at BSU

Dan Deng, Assistant Professor, Department of Mechanical Engineering

Dave Estrada, Associate Professor, Materials Science and Engineering

Josh Eixenberger, Research Professor, Department of Physics

Tony Varghese, Research Scientist, Materials Science and Engineering

Allyssa Bateman, Research Associate, Materials Science and Engineering

Nicholas McKibben, Graduate Research Assistant, Materials Science and Engineering

Katelyn Wada, Graduate Research Assistant, Materials Science and Engineering

Scott Riley, Graduate Research Assistant, Materials Science and Engineering

Host: Patrick Calderoni, Advanced Sensors and Instrumentation

Revision Number: 0

Administration: Stephanie Almond

Date agenda revised: 4/11/2023

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BSU College of Innovation and Design: CI=D Classroom (ALB201F) – Morning Session

- 8:00 Welcome Coffee Social.....
- 8:30 Introductions.....
- DOE – Dan Nichols
 - INL – Patrick Calderoni
 - BSU – Brian Jaques

Project Updates and Accomplishments

- 9:00 Nuclear Thermocouples Brian Jaques
Assistant Professor
- 9:30 LVDT's Dan Deng
Assistant Professor
- 10:00 Break..... All
- 10:15 Acoustic Sensors Dan Deng
Assistant Professor
- 10:45 Printed Sensors for Harsh Environments Dave Estrada and Brian Jaques
Associate/Assistant Professor
- 11:15 Thermal Conductivity and Temperature Measurements for Harsh Environ..... Katelyn Wada
Graduate Research Assistant
- 11:45 Conclusion of Morning Session / Zoom Meeting
- 12:00 Lunch (Catered)..... All

BSU College of Innovation and Design: CI=D Classroom (ALB201F) – Afternoon Session

Kickoff for FY23 – Funds and Work Plans

1:00	Neutron Nuclear Thermocouples.....	Brian Jaques <i>Assistant Professor</i>
1:30	Neutron Generator Update.....	Allyssa Bateman <i>Research Associate</i>
1:40	LVDT's.....	Dan Deng <i>Assistant Professor</i>
2:00	Break (coffee/tea service)	All
2:15	Acoustic Sensors	Dan Deng <i>Assistant Professor</i>
2:45	Printed Sensors for Harsh Environments	Dave Estrada and Brian Jaques <i>Associate/Assistant Professor</i>
3:15	Line Source for Thermal Properties	Dave Estrada <i>Associate Professor</i>
3:45	Wrap Up and Discussion.....	Dan Nichols / Patrick Calderoni / Brian Jaques
4:30	Adjourn.....	All