

THE WSU-PNNL INSTITUTES

NUCLEAR SCIENCE AND TECHNOLOGY | ADVANCED GRID | BIOPRODUCTS

LAUNCH CELEBRATION

Tuesday, April 3, 2018 | 1:30 – 3:30 pm

Student Union Building

Washington State University - Tri-Cities, Richland, WA

PROGRAM

1:30 – 1:55 pm

Welcome and remarks

Dr. Kirk Schulz

President,

Washington State University

Dr. Steven Ashby

Laboratory Director,

Pacific Northwest

National Laboratory

Special Guests

1:55 – 2:00 pm

Closing remarks

President Schulz

2:00 – 3:30 pm

Reception

All Participants

THE WSU-PNNL INSTITUTES

Scientific discovery, technological innovation, and workforce development are critical for addressing national challenges. The WSU-PNNL Institutes combine deep scientific expertise, unique facilities, and advanced instruments and research equipment to expand collaborative research and educational and training programs.



THE WSU-PNNL NUCLEAR SCIENCE AND TECHNOLOGY INSTITUTE

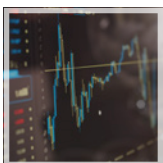
The nation's nuclear enterprise needs sustained scientific and technological innovation to understand and prevent

the use of illicit nuclear materials, resolve issues in nuclear waste management, and advance next-generation nuclear energy. This Institute will address these challenges by advancing our understanding and control of how materials evolve in radiation environments. WSU and PNNL will combine complementary expertise and unique facilities in synthesis, characterization, and modeling of materials in radiation environments to address critical issues governing behavior of nuclear systems, including the effect of radiation on the nature of interfaces in nuclear materials, the role of radiation during materials synthesis, and development of predictive models of materials evolution under radiation.

CO-DIRECTORS

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THE WSU-PNNL ADVANCED GRID INSTITUTE

A resilient power grid reduces the magnitude and/or the duration of disruptive events, including natural disasters such as hurricanes or

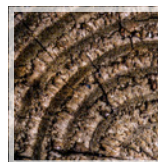
malicious events including cyberattacks. The WSU-PNNL Advanced Grid Institute will bring together innovative electric power system modeling and multi-site testing and validation capabilities at both institutions to enhance grid resilience. It will do

so by developing improved national-scale simulation platforms and data frameworks that enable advanced grid controls and operations for complex power systems.

CO-DIRECTORS

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THE WSU-PNNL BIOPRODUCTS INSTITUTE

The production and use of liquid fuels, chemicals, and plastics from petroleum result in unsustainable atmospheric emissions and solid/liquid wastes.

Today we have an opportunity to demonstrate the production of high-value engineered materials and chemical products with a lower environmental footprint using alternative and sustainable bio-based sources – forest thinnings, agricultural byproducts, rotation crops, waste water sludge, manures, and municipal waste. This challenge requires a systems approach, combining science and technology with technical and market analysis to develop and commercialize new processes. WSU and PNNL will combine comprehensive analytic tools with plant sciences, biotechnology, and catalysis to design and deploy innovative solutions for economical and environmentally sustainable production of bio-based materials and chemicals.

CO-DIRECTORS

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