**Idaho State University  
Physics Colloquium**

**Development of Innovative Sensors for Advanced Reactor Concepts**

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Nuclear power is expected to play an important role in rapidly meeting the growing energy demand in a carbon constrained world. Advanced reactors offer many unique opportunities to develop new technology to advance the state of reactor components, improve competitiveness and support meeting the nation’s energy needs.  Many of these reactor power designs are 100 to 1,000 times smaller than conventional nuclear reactors to offer a combination of reliability and operational flexibility that are expected to generate power for years without the need for refueling.  This colloquium will focus on one aspect of advanced reactor development and deployment; the instrumentation and sensors that will be used throughout the development lifecycle to inform stakeholders of the real-time, accurate and high-resolution parameters needed to determine performance of these advanced reactor systems.

**Zoom (**[**https://isu.zoom.us/j/89132363913**](https://isu.zoom.us/j/89132363913)**)  
Monday, January 24, 2022  
4:00 – 4:50 pm**