

## LICENSING AND IMPLEMENTATION OF DIGITAL I&C AT RESEARCH REACTORS—PANEL

**Session Organizer: Michael D. Muhlheim (ORNL)**

### **Panel Discussion**

Non-power reactors used for research and training are going through a period of I&C modernization. Digital I&C systems are fundamentally different from analog I&C systems in that minor errors in design and implementation can cause them to exhibit unexpected behavior. The transition to digital I&C systems introduces unique design and qualification requirements related to calibration and testing, functional independence, access control, and cybersecurity. This panel will provide an overview of NUREG-1537 reviews for digital I&C systems at research reactors. Recent experience applying for digital I&C upgrades at research, test, and training reactors will be presented.

**Panelists:** *Duane Hardesty (NRC)*

*Other panelists to be announced.*