2016 DOE NE Advanced Sensors and Instrumentation Webinar Agenda
(All Times are Eastern Time Zone)

Wednesday, October 12, 2016

10:00 am	Welcome and Webinar Rules (Bruce Hallbert, INL)
10:15 am	NE I&C and NEET-ASI Overview (Suibel Schuppner, DOE/Bruce Hallbert, INL)
10:30 am	LWRS Advanced II&C R&D Overview (Bruce Hallbert, INL)
11:00 am	ART ICHMI R&D Overview (Sacit Cetiner, ORNL)
11:30 am	Materials Recovery and Waste Forms Overview (Sam Bryan, PNNL)
12:00 pm	***Lunch Break***
12:30 pm	Materials Protection and Accountability (MPACT) Campaign Overview and Advanced Instrumentation Development Overview (Dan Vega, DOE/ Mike Miller, INL)
1:00 pm	Advanced Fuels Program In-reactor Instrumentation Overview (Kristine Barrett)
1:30 pm	Used Nuclear Fuel Storage and Transportation Overview (Ryan Meyer, PNNL)
2:00 pm	Transient Testing Instrumentation Needs (Colby Jensen, INL)
2:30 pm	Nuclear Science User Facility Instrumentation (Brenden Heidrich, INL)

Sensors:

3:00 pm	Robust Online Monitoring Technology for Recalibration Assessment of Transmitters and Instrumentation (Pradeep Ramuhalli, PNNL)
3:30 pm	High Spatial Resolution Distributed Fiber-Optic Sensor Networks for Reactors and Fuel Cycle Systems (Kevin P. Chen, University of Pittsburgh)
4:00 pm	Enhanced Micro-Pocket Fission Detector (MPFD) for High Temperature Reactors (Troy Unruh, INL)
4:30 pm	ART Sensors & Instrumentation Planning (Kofi Korsah, ORNL; Pradeep Ramuhalli, PNNL; Rick Vilim, ANL)
5:00 pm	Feedback/Discussion (Bruce Hallbert, INL)
5:30pm	***Adjourn***

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10:00 am	Welcome and Webinar Rules (Bruce Hallbert, INL)

Digital Monitoring and Control:

10:15 am	Embedded I&C for Extreme Environments (Roger Kisner, ORNL)
10:45 am	Measurement technologies for prognostic indicators for advanced reactor passive components (Pradeep Ramuhalli, PNNL)
11:15 am	Online Monitoring of Material Aging and Degradation (Vivek Agarwal, INL)
11:45 am	Nuclear Qualification Demonstration Of a Cost Effective Common Cause Failure Mitigation in Embedded Digital Devices (Matt Gibson, EPRI)

12:15 pm	**Lunch Break**

12:45 pm	Development of Model Based Assessment Process for Qualification of Embedded Digital Devices in NPP Applications (Richard Wood, University of Tennessee)
1:15 pm	Operator Support Technologies for Fault Tolerance and Resilience (Rick Vilim, ANL)
1:45 pm	Determining the coexistence of wireless technologies with electrical and I&C equipment in a nuclear power plant (Chad Kiger, AMS Corporation)

Nuclear Plant Communication:

2:15 pm	Nanostructured Bulk Thermoelectric Generator for Efficient Power Harvesting for Self-powered Sensor Networks (Yanliang Zhang, Boise State University)

Advanced Concepts of Operation:

2:45 pm	Supervisory control of multi-modular plants (Sacit Cetiner, ORNL)
3:15 pm	Control Room Modernization (Kenneth Thomas, INL)
3:45 pm	Advanced Outage Control Center (Jacques Hugo, INL)
4:15 pm	Computer Based Procedures (Katya LeBlanc, INL)
4:45 pm	Feedback/Discussion (Bruce Hallbert, INL)
5:15 pm	Concluding Remarks (Suibel Schuppner, DOE)

5:30 pm	*Adjourn*