

Agenda

Day 1: Tuesday, February 2, 2016

1:00 p.m. Welcome - Al Wavering, Chief, Intelligent Systems Division, NIST

1:15 p.m. Sponsors' Opening Remarks

- Monica Regalbutto, Assistant Secretary for Environmental Management, U.S. DOE
- K. Steven West, Deputy Director, Office of Nuclear Regulatory Research, U.S. NRC
- Terry Jamieson, Vice-President of Technical Support Branch, CNSC
- Rob Buckingham, Director of RACE, UKAEA
- Philip Mattson, Director, Office of Standards, U.S. DHS
- Michael Siemann, Head of Radiological Protection and Radioactive Waste Management, OECD/NEA

Moderator: Tom Nicholson, U.S. NRC

1:45 p.m. **Session 1: Overview of Robotic Databases, Challenges and Opportunities for the Use of Robotic Technologies at Nuclear Facilities**

Co-Chairs: Andrew Szilagyi, DOE and Adam Jacoff, NIST

Session topics to be addressed:

1. What is the current state-of-the-practice in applying robotic technologies to challenges at nuclear facilities and in other hazardous environments?
2. What are the opportunities to use robotic technologies for enhanced outcomes?
3. What are the possible future uses of robotics at nuclear facilities?
4. What are the potential applications for using test methods from consensus standards to assess robotic performance in order to guide development, procurement and training?
5. What are some established or developing databases of robotic technologies and their applications and how have the databases been integrated into successful monitoring and remediation programs?

2:15 p.m. **Overview of the Testing of Robotics and their Operators for a Range of Functions and Challenges**
Adam Jacoff, NIST

2:45 p.m. **Break**

3:00 p.m. **Demonstration of Databases: From Problem Definition, to Available Robotic Technologies, to Performance Data Based on Standard Test Methods**
Ian Seed, Cogentus Consulting Ltd and Adam Jacoff, NIST

- 5:00 p.m. Tour of NIST Robot Test Facility¹ for demonstration of robot testing and applications (<http://www.nist.gov/el/isd/ms/roboticsbldg.cfm>)**
Adam Jacoff and Kamel Saidi, NIST
- 6:30 p.m. Adjourn for the day**

NIST shuttle bus will return registrants to NIST Administration Building 101 and then to Courtyard Gaithersburg for registered guests

¹ Attendees must pre-register for the tour as part of the general registration process.