

AGENDA

Day 2: Wednesday, February 3, 2016

9:00 a.m. Announcements and Agenda Review

Andrew Szilagyj, DOE

9:10 a.m. Session 2: Practices, Lessons Learned and Challenges of Robot Deployment at Fukushima Daiichi

Co-Chairs: Shinji Kawatsuma, Japan Atomic Energy Agency (JAEA) and Takashi Hara, Tokyo Electric Power Company (TEPCO)

Presentation 1: Deployment of Robotics to Stabilize the Accident at Fukushima Daiichi NPS

Taichiro Arahata, TEPCO

Presentation 2: Challenges for Fuel Debris Retrieval using Robotic Technologies at Fukushima Daiichi NPS

Yuichi Kondo, TEPCO

Presentation 3: Startup of Naraha Remote Technology Development Center and Consideration of Deployed Robot Operation for New Standard Testing Method

Dr. Kuniaki Kawabata, JAEA

10:45 a.m. Break

11:00 a.m. Presentation 4: R&D on Robots for the Decommissioning of Fukushima Daiichi NPS

Kiyoshi Oikawa, International Research Institute for Nuclear Decommissioning (IRID)

11:30 a.m. Panel 2 Discussion:

Moderator: *Shinji Kawatsuma, JAEA*

Rapporteurs: *Takashi Hara, TEPCO*

Dr. Tetsuya Kimura, Nagaoka University of Technology

Panelists: *Taichiro Arahata, TEPCO*

Yuichi Kondo, TEPCO

Dr. Kuniaki Kawabata, JAEA

Kiyoshi Oikawa, IRID

Panel questions:

1. What robotic applications have been developed and deployed to survey and assess challenging conditions within the damaged reactors and auxiliary support structures (e.g., Fukushima Daiichi)?

2. What lessons were learned in developing and applying these robotic technologies and what successes were achieved?
3. How were complex conditions and challenging environments negotiated by the adaptive robotic technologies?
4. How were cleanup objectives, including worker safety, met by using these robotic technologies?

12:00 p.m. Lunch

1:00 p.m. Session 3: *Industry and Government Experiences in Applying Robotic Technologies to Existing Challenges*

Co-Chairs: Rob Buckingham, UKAEA/RACE and Joan Knight, Exelon Generation

Presentation 1: Use of Robotics and Remote Monitoring Equipment for Reducing Dose and Risk Associated with Radiological Work at Ontario Power Generation

Joe Zic, Ontario Power Generation

Presentation 2: DOE National Laboratory Robotic System Applications for Nuclear Facilities Operations and Legacy Cleanup

Steven Tibrea, Savannah River National Laboratory

Presentation 3: Experience in Decommissioning of Nuclear Power Plants in Germany

Kenji Hara, Wälischmiller Engineering GmbH

2:30 p.m. Break

2:45 p.m. Presentation 4: Robotic Handling of Legacy Nuclear Waste: BEP

Stephen Shackleford, UK National Nuclear Laboratory

Presentation 5: The Use of Robotics at CANDU Power Plants

Jacqueline McGovern, Kinectrics Inc

Presentation 6: Use of Robotics for Dose Reduction and Efficiency Gains at U.S. Commercial Nuclear Facilities

Daren Cato, Duke Energy and Joan Knight, Exelon Generation

4:15 p.m. Panel 3 Discussion:

Moderators: *Rob Buckingham, UKAEA-RACE and Joan Knight, Exelon Generation*

Rapporteurs: *Ian Gifford and Steven Wessels, U.S. NRC*

Panelists: *Joe Zic, Ontario Power Generation
Steven Tibrea, Savannah River National Laboratory
Kenji Hara, Wälischmiller Engineering GmbH
Stephen Shackleford, UK National Nuclear Laboratory
Jacqueline McGovern, Kinectrics Inc*

Panel questions:

1. What were the project drivers that enabled your project(s) to get started?
2. What were the key elements that lead to project success?
3. How did the different parties interact: (e.g. government, regulator, operator and supplier)?
4. In your view, how could we as a community be better prepared, more coherent and ultimately more efficient?

5:30 p.m. Adjourn for the day