FRTR Semi-Annual General Meeting
Modeling in Support of Site Remediation
USGS Headquarters | 12201 Sunrise Valley Drive, Reston, VA 20192
Dallas L. Peck Memorial Auditorium
May 22, 2019

Agenda

Meeting Objectives:
1. Discuss a general framework for using modeling and analysis technologies with site data to support remediation decisions.
2. Explore the use of models as a tool to guide site characterization, development and testing of conceptual site models (CSMs), design of remediation strategies, and monitoring programs to assess remediation effectiveness.
3. Review case studies where models have proven useful, and the evolution of those models to address difficulties in the modeling processes at specific remediation sites.
4. Discuss the use of monitoring data to test and confirm CSMs and their derived numerical models.

8:30	**Welcome** *Geoffrey Plumlee, Associate Director for Environmental Health, USGS*
8:35	**Meeting Objectives & Administrative Business** *Kent Glover, Chair, FRTR Steering Committee, DOD-USAF* *Thomas Nicholson, U.S. NRC-RES and Paul Beam, DOE–EM (Meeting Moderators)*
	Agency Perspective on the Use of Models in Remediation Decisions
8:45	**EPA Experience in Using Models to Support Remediation** *Noman Ahsanuzzaman and Terrence Johnson, EPA (Introduced by Dan Powell, EPA)*
9:25	**U.S. NRC Staff Perspective on Use of Models for Risk-Informed Decision Making in License Termination** *Boby Abu-Eid and George Alexander, USNRC/NMSS (Introduced by Thomas Nicholson, NRC)*
10:00	BREAK
	General Framework for Using Modeling and Analysis Technologies with Site Data to Support Remediation Decisions
10:15	**Recognizing Critical Processes and Scales in Conceptual Site Models for Developing Decision Support Tools at Sites of Groundwater Contamination** *Dr. Allen Shapiro, Hydrologist, USGS (Introduced by Tanya Gallegos, USGS)*
	Case Studies Where Models Have Proven Useful, and the Evolution of Those Models to Address Difficulties in the Modeling Processes at Specific Remediation Sites
10:55	**Developing Long-Term Monitoring Strategies for Radiological Contamination Through Modeling & Machine Learning – Demonstrations at Fukushima and Savannah River Site** *Dr. Carol Eddy-Dilek, SRNL (Introduced by Paul Beam, DOE–EM)*
11:35	**Tooele Army Ordnance Depot – Continuous Improvement of a Groundwater Model for Remedy Decision-Making over a 25-Year Period** *Jon Fenske, USACE HEC (Introduced by Mark Rothas, USACE EMCX)*
12:15	LUNCH (available for purchase in the USGS Cafeteria)
1:10	**FRTR Agency Member Announcements** *Kent Glover, FRTR Steering Committee Chair*

	Case Studies where Models Have Proven Useful, and the Evolution of Those Models to Address Difficulties in the Modeling Processes at Specific Remediation Sites (continued)
1:30	**Role of Modeling in the Remediation of the WP14/LF15 Chlorinated Solvent Plume at Dover Air Force Base, Delaware** *Scott Morgan, AECOM (Introduced by Kent Glover, U.S. Air Force)*
2:20	**Simple vs. Complex Modeling: Choosing the Appropriate Level of Complexity When Using Groundwater Modeling in Remediation** *Sophia Lee, NAVFAC EXWC (Introduced by Karla Harre, NAVFAC EXWC)*
3:00	BREAK
3:15	**Panel Discussion** Moderators: Thomas Nicholson, U.S. NRC-RES and Paul Beam, DOE–EM *Panel Members – Presenters on Modeling in Support of Site Remediation*
4:15	**Action Items** *Kent Glover, FRTR Steering Committee Chair*
4:30	**ADJOURN**