

FRTR Spring 2026 General Meeting

Characterizing Groundwater/Surface Water Interfaces for Effective Site Remediation Decisions and Contaminant Cleanup

Meeting Objective

Groundwater and surface water physically overlap at the groundwater/surface water interface (GSI) through the exchange of water and chemicals. Transition zones where surface water, groundwater, and sediment mix typically create unique physical and biogeochemical environments that can result in substantial changes in chemical composition and mass flux as water and pollutants move between groundwater and surface water systems. Understanding and quantifying exchange of water and chemicals at the GSI is integrally important when evaluating contaminant fate and migration, identifying effective contaminant cleanup strategies and deploying optimal remediation technologies.

The FRTR 2026 Spring General Meeting, conducted as two web-based virtual sessions, provides an opportunity to share best technical practices and results of recent technical advances in understanding and characterizing contaminant fate and migration across the GSI. The first virtual session explores current scientific understanding of key hydrological and biogeochemical processes affecting contaminant distribution and transport across a GSI. This session also explores available methods and tools for characterizing contaminant migration across a GSI. The second virtual session provides an overview of recent advances in development of innovative technologies for GSI characterization. The session ends with a discussion of needs for further technological development.

Session 1 – Current Understanding and Best Practices

May 20, 2026

1:00 PM to 3:00 PM Eastern Time

Virtual Web-Based Meeting

12:30 pm	Meeting Web Link Goes Active for Participants to Join
1:00 pm	Welcome and Web-Based Meeting Logistics <i>John Reynolds, EPA</i>
1:10 pm	Meeting Objectives <i>Kent Glover, AFCEC</i>
1:15 pm	Overview – Relevancy of the Groundwater / Surface Water Pathway to Determining Contamination Extent and Selecting Remedies <i>Andrew Jackson, Texas Tech University</i>
1:45 pm	Method and Decision Support Toolbox for Assessing Groundwater / Surface Water Interactions <i>Martin Briggs, USGS</i>
2:15 pm	From Rocky Seas to Smooth Sailing: Which Path Will Your GSI Investigation Take? <i>Everett Fortner (Trey), Noblis</i>
2:45 pm	Open Discussion and Q&A
3:00 pm	Session 1 Wrap Up <i>John Reynolds, EPA</i>
3:05 pm	Adjourn

Session 2 – Advances in Innovative Technologies

May 21, 2026

1:00 PM to 3:00 PM Eastern Time

Virtual Web-Based Meeting

12:30 pm	Meeting Web Link Goes Active for Participants to Join
1:00 pm	Welcome and Web-Based Meeting Logistics <i>John Reynolds, EPA</i>
1:10 pm	Session 2 Objectives <i>Kent Glover, AFCEC</i>
1:15 pm	Case Study – Evolving Geophysical Tools for Tracking Fate and Transport at Groundwater / Surface Water Interfaces <i>Neil Terry, USGS</i>
1:45 pm	Recent Advances in Passive Flux Meter Technology for Characterizing Groundwater / Surface Water Interfaces <i>Michael Annable, University of Florida</i>
2:15 pm	Time-lapse 3D monitoring of dynamic groundwater/surface water interactions using Electrical Resistivity Tomography <i>Tim C. Johnson, Pacific Northwest National Laboratory</i>
2:45 pm	Roundtable: Federal Agency Perspectives on Needs for GSI Technology Development and Technology Transfer
3:15 pm	Session 2 Wrap Up
3:20 pm	Adjourn