

Groundwater/Surface Water Interactions and Evaluating Impacts of Contaminated Groundwater Discharges: Tools, Ecological Risk, and Case Studies

Day 1: Nov 14

| Time | Presenter | Duration (mins) | Description of Talk |
|---------------|--------------|-----------------|--|
| 9:00 - 9:45 | Conant | 45 | Overview of Groundwater/Surface-Water Interactions: Processes Affecting Discharging Groundwater Contaminant Plumes |
| 9:45 - 10:15 | Conant | 30 | A Framework for Conceptualizing GW/SW Interactions and Impacts on Water Quality, Quantity, and Ecosystems |
| 10:15 - 10:30 | Break | 15 | |
| 10:30 - 11:15 | Conant | 45 | Hydrogeological Tools for Characterizing GW/SW Interactions: GW Discharge and Flow |
| 11:15 - 12:00 | Briggs | 45 | Integrating surface geophysical methods into multi-scale investigations of groundwater/surface water exchange |
| 12:00 - 1:15 | Lunch | 75 | |
| 1:15 - 2:30 | Conant | 75 | Using Infrared Thermography and Temperature Methods to Characterize Groundwater/Surface Water Interactions |
| 2:30 - 2:45 | Break | 15 | |
| 2:45 - 3:30 | Duncan | 45 | GW/SW Interactions: Ecological Risk Assessment Approaches, Tools, and Recent Advances |
| 3:30 - 4:30 | Conant | 60 | Rookie Mistakes in Hydrogeology: Things to do and NOT do |

Day 2: Nov 15

| | | | |
|---------------|--------------|----|--|
| 9:00 - 9:45 | Conant | 45 | Hydrogeological Tools for Characterizing Porewater Concentrations in the Transition Zone |
| 9:45 - 10:15 | Conant | 30 | A PCE Groundwater Plume Discharging to a River: Influence of the Near-River Zone |
| 10:15 - 10:30 | Break | 15 | |
| 10:30 - 11:00 | Ohl/Conant | 30 | Rapid Multi-Scale Assessment of a Benzene Plume Discharging into Lake Michigan and its Impacts on the Remedy |
| 11:00 - 11:30 | Bentkowski | 30 | A Simple Assessment Reveals Discrete VOC Contaminated Groundwater Discharges to a Piedmont Stream |
| 11:30 - 12:00 | Brandon | 30 | The Red Cove Arsenic Problem - From Denial to Remedy |
| 12:00 - 1:15 | Lunch | 75 | |
| 1:15 - 1:45 | Conant | 30 | Remediation of Groundwater Plumes Discharging to Surface Water: Potential Problems and Challenges |
| 1:45 - 2:15 | Conant/Ohl | 30 | Remediation and Performance Monitoring of a Benzene Plume Discharging into Lake Michigan |
| 2:15 - 2:30 | Break | 15 | |
| 2:30 - 3:15 | Conant | 45 | Case Study - Application of the GW/SW framework to a contaminated site |
| 3:15 - 3:30 | Break | 15 | |
| 3:30 - 4:30 | ALL | 60 | Open Discussion - Participants ask questions about their own sites |