

**USEPA/Taiwan EPA Technical Exchange Agenda  
December 14-15, 2022**

**Day 1 – December 14, 2022**

**Morning Session Day 1 – Site Characterization**

- 9:00 – 9:30      Conceptual Site Model and Cleanup Modifications Responding to Nature Based Extreme-Conditions – Dora Chiang, WSP
- 9:30 – 10:00     Characterization and Monitoring Using Electrical Hydrogeology – Todd Halihan, Aestus
- 10:00- 10:30     Geology Best Practices – Cindy Frickle, USEPA
- 10:30- 11:00     Morning Tea Break**
- 11:00-11:30     Using High Resolution Site Characterization for Optimizing Remedial Design – John Sohl, Columbia Technologies
- 11:30 - 12:00    Nuclear Magnetic Resonance (NMR) Geophysics for High Resolution Site Characterization, CSM Refinement and Remedial Design Optimization – Brad Cross, ERM
- 12:00 – 1:00     LUNCH**

**Afternoon Session Day 1 – Integrated Remediation Technologies/Combined Remedies/’Package Deals’**

- 1:00 – 1:30      Combined Remedies – Principles and Practices – Jim Cummings, USEPA
- 1:30 – 2:00      Combinations of Emulsified Vegetable Oil and Sulfidated ZVI -- Mike Lee, Terra
- 2:00 – 2:30      Bundling Complementary Abiotic and Biotic Technologies – Lesson Learned – Paul Dombrowski, Isotec
- 2:30 – 3:00      AFTERNOON TEA BREAK**
- 3:00 – 3:30      Geoform and Metafix for CVOC’s and Heavy Metals – Alan Seech & Dan Leigh, Evonik
- 3:30 – 4:00      Increasing Remedial Efficiency by Combining Abiotic and Biotic Technologies – Will Moody, Provectus
- 4:00              ADJOURN**

## **Day 2 – December 15, 2022**

### **Morning Session Day 2 – Combined Remedies (Continued)**

- 9:00 – 9:30      Fiscally Conscious DNAPL Remediation – Legacy Liability to Managed Closure – Phased Application of Combined Remedies – Bill Brab, AST Env
- 9:30 – 10:00    Bioremediation of Chlorinated Solvents and Mixtures – Laurie LaPat-Polasko, New World Engineering

### **Morning Session Day 2 – Low Permeability Strata**

- 10:00 – 10:30    Electro- Kinetics (EK) Technology – James Wang, Geosyntec
- 9:30 – 10:00    Thermal Remediation in Low-Permeability Materials – Steffen Griepke, Cascade/TerraTherm
- 10:30 – 11:00    MORNING TEA BREAK**
- 11:00 – 11:30    Injection of Powdered Activated Carbon in Low Permeability Strata – Ed Winner, RPI
- 11:30 – 12:00    Reducing Time of Remediation in Clay and Fractured Rock Sites – Lowell Kessel, CERES
- 12:00 – 1:00     LUNCH**

### **Afternoon Session Day 2 - Miscellaneous**

- 1:00 – 1:30      Balancing Technology and Innovation to Drive Remedial Success – Joe Quinnan & Scott Potter, Arcadis
- 1:30 – 2:00      Tracking Sustainable Remediation – Betsy Collins, Jacobs
- 2:00 – 2:30      AFTERNOON TEA BREAK**
- 2:30 – 3:00      PFAS Overview – Challenges and Opportunities – Jim Cummings, EPA
- 3:00 – 3:30      Remedial Futures – Looking Into Crystal Balls and Over the Horizon – Jim Cummings, EPA
- 4:00              ADJOURN**