

# PNNL at WM Symposia 2026

## Track 1: Crosscutting Policies and Programs

**Deborah Gracio** | Session 43 | Monday PM

**Panel:** US DOE's Genesis Mission – Bringing Together AI, Cleanup and New Nuclear to Drive American Innovation and Energy Dominance

**Talia Ochoa** | Session 86 | Tuesday PM

**Panel:** DOE Western Site-Specific Procurement and Contracting Opportunities

## Track 2: High-Level Radioactive Wastes (HLW), Spent/Used Nuclear Fuel

**Austin Bachman** | Session 11 | Monday AM

Evaluation of High-Level Waste Transport Properties via Just-Suspended Impeller Speed

**Matthew Asmussen** | Session 13 | Monday AM

Technology Development and Characterization for Radionuclide Removal from Hanford Wastes and the Impact of Waste Chemistry and Speciation

**Reid Peterson** | Session 13 | Monday AM

Applying Actual Waste Results to Sludge Treatment Options at the Hanford Site

**Austin Bachman** | Session 132 | Wednesday AM

Filtration Results of Hanford Tank 241-AW-105 Supernatant at 16 Degrees Celsius

**Emily Campbell** | Session 132 | Wednesday AM

Matrix Impacts on Cs Removal by CST Determined by Batch Contact Tests and Applied to Lab IX Testing of Hanford Tank Waste

**Amy Westesen** | Session 132 | Wednesday AM

Hanford West Area Tank Treatment Solids Assessment

**Stuart Arm** | Session 141B | Wednesday AM

The Technology Readiness Assessment Process and its Application to Hanford Direct Feed High-Level Waste

**Matthew Asmussen** | Session 142 | Wednesday AM

Corrosion Testing and Model Development for Next Generation Multiphase Waste Forms

**Amanda Lines** | Session 161 | Wednesday PM

Preparing a Comprehensive On-Line Monitoring Platform for Future Deployment

**Veronica Wilson** | Session 197 | Thursday AM

Automated Analysis of Spent Nuclear Fuel Characteristics: Recent Applications of the STANDARDS Data and Analysis Tool

**Steven Rosenthal** | Session 199 | Thursday AM

Flaw Detection and Characterization in Hanford Tank Floors with Machine Learning-enhanced RAVIS Volumetric Inspection System

**Jarrod Crum** | Session 210 | Thursday PM

Corrosion and Development of Bubbler Alloys for Joule Heated Ceramic Melters

**Jessica Rigby** | Session 220 | Thursday PM

Alternate Reductants for Mitigating Acetonitrile During Vitrification of Hanford Tank Waste

## Track 3: Low-Level Waste, Intermediate Level Waste, Very Low-Level Waste

**Matt Asmussen** | Session 70 | Tuesday AM

Enhancing Waste Management and Visualization at Hanford: A Collaborative Effort with H2C, Vanderbilt University and PNNL

**Matt Asmussen** | Session 135 | Wednesday AM

LDR Inorganic Retention and Treatment Factors in Cementitious Waste Forms

**Jon Lapeyre** | Session 135 | Wednesday AM

Influence of Simulant Concentration on Cast Stone Performance

**Gemma Clark** | Session 167 | Wednesday PM

Potential for Natural Attenuation of Nitrate at the Hanford Nuclear Site

**Matt Asmussen** | Session 215 | Thursday PM

Developing a Hanford Grout Modeling Framework

## Track 5: Packaging and Transportation (PAT)

**Harold Adkins Jr.** | Session 24 | Monday PM

**Panel:** Transport of Microreactors

**Steven Maheras** | Session 40 | Monday PM

Recommended Updates for ANSI N14.24, Domestic Barge Transport of Highway Route Controlled Quantities of Radioactive Materials

## Track 6: Decontamination and Decommissioning

**Sarah Saslow** | Session 106 | Tuesday PM

Physicochemical Interactions Between Fixative Spray AF-1000 and Contaminated Building Surfaces

## Track 7: Environmental Remediation

**Frederick Day-Lewis** | Session 16 | Monday AM

New Modeling Tools for Estimating Vertical Concentration Profiles Around Long-Screened Wells

**Debbie Fagan** | Session 16 | Monday AM

AI for PFAS Contamination Source Attribution

**Xuehang Song** | Session 16 | Monday AM

A Hybrid Recalibration Framework for Deep Learning Models in Groundwater Remediation: Enhancing Long-Term Predictive Accuracy at Legacy Waste Sites

**Xuehang Song** | Session 23 | Monday PM

**Panel:** Overview, Challenges, and Applications of Artificial Intelligence (AI) in Environmental Remediation

**Hilary Emerson** | Session 30 | Monday PM

Transforming In Situ Subsurface Remediation Monitoring by Decoding Spectral Induced Polarization Data

**Xuehang Song** | Session 30 | Monday PM

Groundwater Prediction and Monitoring Network Optimization at the Hanford Site Using Diffusion Models

**Xuehang Song** | Session 107 | Tuesday PM

Data-Source Agnostic Online Environmental Data Analytics

**Christian Johnson** | Session 176 | Wednesday PM

**Panel:** US DOE NNLEMS R&D Roadmap for Accelerating EM Soil and Groundwater Cleanup Mission

**Tim Johnson** | Session 201 | Thursday AM

Geophysical Investigations of Groundwater/Surface Water Interaction at the MOAB Uranium Mill Tailing Remedial Action Site

**Christian Johnson** | Session 216 | Thursday PM

Framework for PFAS Reactive Transport Kinetics

## Track 8: Communication, Stakeholders & Indigenous Engagement, & Workforce

**Miriam Juckett** | Session 155 | Wednesday PM

**Panel:** Stakeholder Involvement in Transportation of Nuclear Waste

## Track 9: Special Topics and Multi-Track Cross Cutting Technology Topics

**Inci Demirkanli** | Session 51B | Tuesday AM

**Panel:** Leveraging Artificial Intelligence to Advance DOE-EM's Mission

**Matt Asmussen** | Session 89 | Tuesday PM

**Roundtable:** DOE EM Testbeds: A Path to Deployment for Safe and Effective Cleanup

**Tim Johnson** | Session 108 | Tuesday PM

Generative AI for Calibrating Subsurface Remediation Simulators Using Time-Lapse Electrical Resistivity Tomography

**Frederick Day-Lewis** | Session 117 | Tuesday PM

**Roundtable:** Updates on DOE NNLEMS in Support of EM and LM Missions

**Christian Johnson** | Session 117 | Tuesday PM

**Roundtable:** Updates on DOE NNLEMS in Support of EM and LM Missions

**Angela Becker-Dippmann** | Session 159 | Wednesday PM

**Panel:** The Role of National Laboratories in Delivering Value Through National Missions

**Debbie Fagan** | Session 182 | Thursday AM

**Panel:** US Interagency Community of Practice in Risk and Performance Assessment

## Track 10: Leveraging Education Programs for the Future (STEM)

**Kailer Spicer** | Session 36 | Sunday PM

**Poster:** Enhancing Research Workflow with Python-Based Automation for Data Management

## Track 12: Miscellaneous: Unassigned & Late Abstracts and Non-Paper Posters

**Kayte Denslow** | Session 171 | Wednesday PM

**Poster:** Increased Hanford Tank Sidewall Integrity Inspections with Robotic Guided Wave & Magnetic Flux Leakage Sensors

