PNNL at WM Symposia 2025

Track 1: Crosscutting Policies and Programs

Talia Ochoa | **Session 99** | **Tuesday PM**
Panel: DOE Western Site-Specific Procurement and Contracting Opportunities

Track 2: High-Level Radioactive Wastes, Spent Nuclear Fuel/Used Nuclear Fuel (SNF/UNF), and Long-Lived Alpha/Transuranic Radioactive Waste

Amy Westesen | **Session 38a** | **Monday PM**
Poster: Disposition of High-level Waste Sludge Retrieval and Leachate Solutions

Steven Rosenthal | **Session 63** | **Tuesday AM**
Next-Gen Flaw Characterization in Hanford Under-Tank Inspection by the Robotic Air-slot Volumetric Inspection System (RAVIS)

Phil Schonewill | **Session 180** | **Wednesday PM**
Formulating Representative Simulants for Hanford's 200 West Area

Trenton Graham | **Session 214** | **Thursday PM**
Implications of Natrophosphate Solubility for Tank Waste Retrieval from the Southeast Quadrant at the Hanford Site

Amy Westesen | **Session 233** | **Thursday PM**
Technology Development and Characterization for Radionuclide Removal from Hanford Wastes

Emily Campbell | **Session 233** | **Thursday PM**
Matrix Impacts on Cs Removal by Crystalline Silicotitanate for Hanford Tank Waste

Track 3: Low-Level, Intermediate Level, Mixed Waste, NORM, and TENORM

Matt Asmussen | **Session 70** | **Tuesday AM**
Influence of Organic Constituents in LAW Tank Waste on the Processing Properties of Grout Waste Forms

Amanda Lawter | **Session 70** | **Tuesday AM**
The Behavior of Non-pertechnetate Forms of Technetium in Grout

Track 5: Packaging and Transportation

Steve Maheras | **Session 101** | **Tuesday PM**
Adaption of a Highway Risk-Informed Transportation Package Approval Process for Microreactors to Maritime Transport

Steve Maheras | **Session 152** | **Wednesday AM**
Site Infrastructure Evaluation for the North Anna Nuclear Power Station

Miriam Juckett | **Session 175** | **Wednesday PM**
Process for Developing Package Performance Project Protocols

Miriam Juckett | **Session 175** | **Wednesday PM**
External Engagement in Planning a DOE Package Performance Project

Harold Adkins | **Session 195** | **Wednesday PM**
Panel: Transport of MicroReactors

Track 7: Environmental Remediation

Trenton Graham | **Session 14** | **Monday AM**
Determining Solubility of Aluminum and Phosphate Gels in Hanford Waste

Rob Mackley | **Session 51** | **Monday PM**
Panel: Vertical Delineation of Groundwater Contamination and Aquifer Properties at DOE Sites

Sameera Horawalavithana | **Session 86** | **Tuesday AM**
Panel: Regulatory Acceptance of Artificial Intelligence and Machine Learning in Environmental Remediation

Amanda Lawter | **Session 114** | **Tuesday PM**
Subsurface Sequestration of Technetium and Uranium Using Bismuth Subnitrate

Rob Mackley | **Session 114** | **Tuesday PM**
Intermediate Scale Test Platform for Alternate Ion Exchange Resin Performance Testing at the Hanford 200 West Pump-and-Treat

Fred Day-Lewis | **Session 144** | **Wednesday AM**
Challenges and Approaches to Estimating Vertical Concentration Profiles around Long-Screened Wells

Amanda Lawter | **Session 148** | **Wednesday AM**
Poster: Evaluation of Bioremediation Technologies at the 200-DV-1 Operable Unit

Hilary Emerson | **Session 144** | **Wednesday AM**
Testing Spectral Induced Polarization for Monitoring In Situ Remediation Technology Delivery and Reactivity

Judy Robinson | **Session 183** | **Wednesday PM**
Reducing Seismic Imaging Uncertainty to Provide Improved Subsurface Characterization

Xuehang Song | **Session 210** | **Thursday AM**
Enhancing Pump-and-Treat Optimization with a Deep Learning Surrogate Model

Judy Robinson | **Session 210** | **Thursday AM**
Vadose Zone Model Calibration Using Machine Learning with Geophyiscal Monitoring Data

Inci Demirkanli | **Session 229** | **Thursday PM**
End-State Driven Performance-Based Optimization Tool for Large-Scale Groundwater Remedies

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

Matt Asmussen | **Session 36** | **Monday PM**
Developing a Hanford Grout Modeling Framework

Reid Peterson | **Session 36** | **Monday PM**
Enabling HLW Sludge Delivery Through In-tank Processing in the Southeast Quadrant of the Hanford Tank Farms

David Peeler | **Session 39** | **Monday PM**
Expand High-Level Waste Glass Processing Envelope

Amanda Lines | **Session 72** | **Tuesday AM**
Comprehensive On-line Monitoring for Real-Time Liquid/Slurry Characterization

Tom Brouns | **Session 95** | **Tuesday PM**
Panel: DOE EM Testbeds: A Path to Deployment for Safe and Effective Cleanup

Hilary Emerson | **Session 113** | **Tuesday PM**
Field-Scale Lysimeter Studies of Glass and Cementitious Waste Forms at the Hanford Site

Matt Asmussen | **Session 113** | **Tuesday PM**
Multiphase Waste Form Performance Collaboration with ANSTO

Tom Brouns | **Session 169** | **Wednesday PM**
Panel: The Role of National Laboratories in Delivering Value through National Missions

Praveen Thallapaly | **Session 240** | **Thursday PM**
Panel: Advancement of HEPA Filters at DOE Sites

Track 10: Leveraging Education and Workforce Development Programs in the Future

Natalie Bohrmann | **Session 40** | **Sunday PM**
Poster: Impact of Silica Particle Size on the Rheological Behavior of Simulated Low-Activity Waste Melter Commissioning Feed

Abigail Robb | **Session 40** | **Sunday PM**
Poster: Understanding the Impact of Anions on the Chemical Activity of Hanford Tank Waste—Application to Cesium Removal by CST

Evangelina Shreeve | **Session 33** | **Monday PM**
Panel: Education to Power the Future

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

Session 184 | **Wednesday PM**

Inci Demirkanli | **Poster:** Web-Based Tools for Supporting Data-Driven Pump-and-Treat Performance Analysis and Optimization

Amanda Lawter | **Poster:** Solid-Phase Characterization of Subsurface Technetium and Uranium Remediation Technologies