



WM2024 Papers of Note

This award is based solely on the paper submitted, not its poster or oral presentation. The Paper Reviewers determine eligibility and then the relevant Track Co-Chairs, and subject matter experts, select their Track's "Paper of Note" There were 22 Papers selected from WM2024.

Paper# 24662 - Track 1 - "Results from the Eurad Routes Work Package - Towards Future European Collaboration on Radioactive Waste Management" Authors: Marianne Suignard, François Marsal, IRSN; Marie Charlotte Bornhöft, DMT GmbH & Co. KG; Chris De Bock, ONDRAF/NIRAS; Liz Harvey, Galson Sciences Ltd; Ole Kastbjerg Nielsen, DEKOM; Iryna Kutina, SSTC NRS; Melanie Maitre, Virginie Wasselin, Andra; Adrien Rooses, Orano; Anastasia Savidou, NCSR; Marja Vuorio, COVRA; Nadja Zeleznik, EIMV

Paper# 24207 - Track 2 - "Aluminum Solubility, Speciation, and Reactivity Under Low Water Conditions in Radioactive Tank Waste at Hanford" Authors: Carolyn Pearce, Emily Nienhuis, Trenton Graham, Xin Zhang, Zheming Wang, Kevin Rosso, Gregory Schenter, Pacific Northwest National Laboratory; Andrew Stack, Larry Anovitz, Oak Ridge National Laboratory; Mateusz Dembowski, Los Alamos National Laboratory; Jacob Reynolds, Washington River Protection Solutions' Aurora Clark, University of Utah

Paper# 24405 - Track 2 - "In-situ Corrosion Study of Uranium Metal Encapsulated in Magnox Sludge: Joint Synchrotron X-ray and Neutron Imaging Analysis" Authors: Philip Hutchinson, Antonios Banos, Thomas Scott, University of Bristol

Paper# 24494 - Track 2 - "Testing of Microchannels and Lab-Grown Stress Corrosion Cracks for Quantification of Aerosol Transmission" Authors: Sam Durbin, Philip Jones, Dominic Fascitelli, Sandia National Laboratories

Paper# 24630 - Track 2 - "ANSTO's Synroc Technology Options for the Treatment of GEN IV Nuclear Reactor Wastes" Authors: Dan Gregg, Rohan Holmes, Gerry Triani, ANSTO

Paper# 24118 - Track 3 - "Fifty Years – The Evolution of Performance Assessments for Low-Level Waste Disposal Facilities" Authors: Matthew Kozak, Sunil Mehta, INTERA, Inc.; Marcel Bergeron, Kearn Lee, Washington River Protection Solutions

Paper# 24567 - Track 3 - "Revalidation of Radiological Fingerprints Across a Complex Nuclear Site: A Journey Towards Good Practice in Development and Management" Authors: Natalie Sutherland, NRS Dounreay; Richard Gunn, Cavendish Nuclear; James Doherty, Ellison Andrew, Dounreay; Vittoria Baldioli, Vittoria Baldioli

Paper# 24553 - Track 4 - "Transportation and Return to Storage of Aged Spent Fuel Canisters" Author: Brian Gutherman, Gutherman Technical Services, LLC

Paper# 24159 - Track 5 - "Using GIS and 360-Degree Video Surveys to Identify Microreactor Transport Risk Locations Along a Hypothetical Public Highway" Authors: Micah Taylor, Brian Hom, Ben Jensen, Pacific Northwest National Laboratory

Paper# 24027 - Track 5 - "Update on DOE's Atlas Railcar Project" Authors: Kevin Connolly, Mike Schultze, Oak Ridge National Laboratory; Steven Maheras, Pacific Northwest National Laboratory; Scott Dam, Spectrum, Inc.; Patrick Schwab, US DOE

Paper# 24438 - Track 6 - "Determination of Airborne Release Fractions for Fixative Technologies under Impact Stress for D&D Activities" Authors: Melissa Komninakis, Joseph Sinicrope, Applied Research Center - FIU; Bryan Torres, Nicholas Espinal, Florida International University; James Nicholson, Savannah River National Laboratory

Paper# 24271 - Track 6 - "Development of a Long Reach Modular Robotic Deployment System for Through Wall and Vertical Access Ports" Authors: James Hill, Eadon Consulting Ltd.; Nicholas Clarke, Sellafeld Ltd

Paper# 24538 - Track 7 - "Soil Washing: Sustainable Cost-Effective Treatment for Per and Polyfluoroalkyl Substances" Authors: Nathan Nagle, Joseph Quinnan, Julia Vidonish Aspinall, Olivia Mathews, ARCADIS US, Inc.; Colin Morrell, TUQ4

Paper# 24600 - Track 7 - "Assessing Effects of Climate Change on Legacy Waste at the Enewetak Atoll" Authors: Rajiv Prasad, Bruce Napier, Tracy Ikenberry, Saikat Ghosh, Male Rajage Premathilake, Taiping Wang, Tarang Khangaonkar, Sourav Taraphdar, Lai-Yung (Ruby) Leung, Pacific Northwest National Laboratory

Paper# 24603 - Track 7 - "ALTEMS: Long-term Performance Monitoring of the SRNL F-Area Basin 3 Cap Using Autonomous 4D Electrical Resistivity Difference Tomography" Authors: Judy Robinson, Pacific Northwest National Laboratory; Thomas Danielson, Hansell Gonzalez-Raymat, Carol EddyDilek, Savannah River National Laboratory; Jeffrey Thibault, Savannah River Nuclear Solutions

Paper# 24624 - Track 7 - "Soil Water Balance Model Selection and Benchmark Testing for Evaluating Uranium Mill Tailings Disposal Cell Evapotranspiration Covers" Authors: Michael Morse, RSI, Contractor to DOE LM

Paper# 24204 - Track 8 - "Describing the Approach for Site Restoration and End State Planning at the Nuclear Power Demonstration Site" Authors: Courtney Power, Canadian Nuclear Laboratories

Paper# 24099 - Track 9 - "Update on Savannah River Site H-Canyon Exhaust Tunnel Erosion Analysis*" Authors: William Wells, Nickolas Trisnadi, Andrew Priest, Stephen Harris, Larry Deschaine, Daniel Odell, Savannah River National Laboratory; Jane Carter, Saiying Bowers, Savannah River Nuclear Solutions

Paper# 24105 - Track 9 - "Borehole Disposal of Radioactive Waste in Israel - Characterization Program and Borehole" Authors: Noa Balaban, Ofra Klein-BenDavid, Gilboa Pe'er, NRCN; Rani Calvo, Geological Survey of Israel

Paper# 24648 - Track 9 - "Membrane-free Removal of Cerium and Zirconium Hydroxide Precipitates by Continuous Ultrasonic Filtration" Authors: Jim Coons, Audrey Roman, Keri Campbell, Los Alamos National Laboratory

Paper# 24307 - Track 10 - "GAME ON! Addressing the Nuclear Skills Shortage Through an Interactive Radioactivity Card Game for School Pupils" Authors: Sarah Lu, Los Alamos National Laboratory; Shaun Hemming, Jamie Purkis, University of Southampton

Paper# 24128 - Track 11 - "Incorporating Lessons Learned from Nuclear Waste Management and Decommissioning in SMR Design" Authors: Aaron Erim, World Nuclear Association; Arne Larsson, Cyclife Sweden; Michel Pieraccini, EDF DP2D; Douglas Kerr, Jacobs; Aaron Erim, Henri Zaccai, World Nuclear Association