

### BEST ORAL PRESENTATIONS/PAPERS

At each conference, WMS recognizes the two best oral presentations/papers. To honor high quality presentations, the American Nuclear Society (ANS) and the American Society of Mechanical Engineers (ASME) presents an award for the Best Presentations/Papers.

2023	
<p><b>ANS Award</b></p> <p>"Leveraging Machine Learning and Imaging Technologies for Autonomous Container Inspection"</p> <p>Authors: Steven Lukow, Ross Lee, David Grow, Joseph Hafen, Jonathat Gigax, Los Alamos National Laboratory</p>	<p><b>ASME Award</b></p> <p>"Developing a Single-Shell Tank Performance Assessment Model for Hanford Tank Farms"</p> <p>Authors: Kearn Lee, David Watson, Marcel Bergeron, Washington River Protection Solutions; Trevor Budge, Mart Oostrom, INTERA, Inc.</p>
2022	
<p><b>ANS Award</b></p> <p>"Performance of a Scaled Tank Side Cesium Removal Test System at High Solids Loading"</p> <p>Authors: Philip Schonewill, Phillip Gauglitz, Richard Daniel, Carolyn Burns, Stephen Davidson, Pacific Northwest National Laboratory; Matt Landon, Washington River Protection Solutions</p>	<p><b>ASME Award</b></p> <p>"Mobile Platform for Structural Health Monitoring Using Convolutional Neural Network"</p> <p>Authors: Himanshu Upadhyay, Santosh Joshi, Roger Boza, Walter Quintero, Leonel Lagos, Applied Research Center - FIU</p>
2021	
<p><b>ANS Award</b></p> <p>"Biofouling in a Chromium Plume-Control Interim Measure Extraction Well at Los Alamos National Laboratory"</p> <p>Authors: Brinson Willis, Giday WoldeGabriel, Danny Katzman, Paul Reimus, Tech2 Solutions/Newport News Nuclear, BWXT (N3B), Los Alamos</p>	<p><b>ASME Award</b></p> <p>"Problematic Waste: The Road to Implementing Improved Management Solutions: a UK Case History"</p> <p>Authors: Mark Cowper, Marc Rigby, Irina Tanase, Radioactive Waste Management; Matthew Buckley, NDA; Helen Cassidy, Holly Cresswell, Tom Fletcher, Oliver Steele, LLW Repository Ltd; Jenny Kent, Sally Scourfield, Galson Sciences Ltd</p>
2020	
<p><b>ANS Award</b></p> <p>"When Every Drum is a Win – Tackling a Thirty-Five Thousand Drum Legacy"</p> <p>Authors: Rebecca Peters, Thomas Smith, Lori Southern, Clarence Lee, Cameco Corporation</p>	<p><b>ASME Award</b></p> <p>"A Preliminary Radiological Risk Assessment Model for Disposition of Remote-Handled Transuranic Wastes at LANL Area G"</p> <p>Authors: John Tauxe, Doug Anderson, Aaron Bandler, Paul Black, Hayley Brittingham, Kelly Crowell, Paul Duffy, Aharon Fleury, Leslie Gains-Germain, Terry Jennings, Amy Jordon, Robert Lee, Daniel Levitt, Patti Meeks, Gregg Occhiogrosso, Ralph Perona, Amy Rice, Randall Ryt, Christopher Schaupp, Neptune and Company</p>

2019	
<p><b>ANS Award</b></p> <p>"CNL Technologies for Heavy Water Detritiation"  Authors: Laura Merlo-Sosa, Hugh Boniface, Richard Prokopowicz, Sam Suppiah, Canadian Nuclear Laboratories</p>	<p><b>ASME Award</b></p> <p>"Methodology for Volume Reduction of Radioactive Metallic Waste"  Authors: J. Clara Wren, Thao Do, Jiju Joseph, University of Western Ontario</p>
2018	
<p><b>ANS Award</b></p> <p>"Evaluation of Novel Leaching Assessment for Nuclear Waste Glasses"  Authors: Claire Corkhill, Clare Thorpe, Colleen Mann, Adam Fisher, Russell Hand, Neil Hyatt, University of Sheffield; Brian Riley, Michael Schweiger, Jodi Mayer, Christina Arendt, Pacific Northwest National Laboratory; Albert Kruger, US DOE; David Kosson, Vanderbilt University</p>	<p><b>ASME Award</b></p> <p>"Characterization of Highly Active Cells in Preparation for Post Operational Clean Out at Sellafield"  Authors: Philip Archer, Sellafield Ltd; Tom Page, Cerberus Nuclear Limited; Daniel Parvin, Cavendish Nuclear</p>
2017	
<p><b>ANS Award</b></p> <p>"Radioactive Contamination Tenacity on Building Substrate"  Authors: Rick Demmer, Idaho National Laboratory; Colin Boxall, Lancaster University</p>	<p><b>ASME Award</b></p> <p>"Characterization of Highly Active Cells in Preparation for Post Operational Clean Out at Sellafield"  Authors: Philip Archer, Sellafield Ltd; Tom Page, Cerberus Nuclear Limited; Daniel Parvin, Cavendish Nuclear</p>
2016	
<p><b>ANS Award</b></p> <p>"Effect of Feed Composition on Cold-Cap Formation in Laboratory-Scale Melter"  Authors: Derek Dixon, Michael Schweiger, SeungMin Lee, Jayven Heilman-Moore, Pavel Hrm, Pacific Northwest National Laboratory</p>	<p><b>ASME Award</b></p> <p>"Robotic Grasp Assistance for Decontamination and Decommissioning Tasks: Initial Applications with RoboGlove"  Authors: Joshua Mehling, Jonathan Rogers, Christopher Beck, NASA-Johnson Space Center</p>
2015	
<p><b>ANS Award</b></p> <p>"The Development and Initial Testing of the Ice Pig Cleaning Method for Nuclear Reprocessing Plants"  Authors: Alex Jenkins, Sellafield Ltd; Joe Quarini, Dan McBryde, University of Bristol</p>	<p><b>ASME Award</b></p> <p>"RO Concentrated Water Treatment Equipment for Risk Reduction of Contaminated Water Stored in Tank in Fukushima NPS"  Authors: Yuko Kani, Mamoru Kamoshida, Fumio Takahashi, Hitachi, Ltd; Takashi Asano, Takashi Nishi, Yusuke Kitamoto, Takako Sumiya, Kenji Noshita, Hitachi-GE Nuclear Energy, Ltd</p>
2014	
<p><b>ANS Award</b></p> <p>"Flux Based Evaluation of Perched-Water in the Deep Vadose Zone at the Hanford Site"  Authors: Michael Truex and Mart Oostrom, Pacific Northwest National Laboratory</p>	<p><b>ASME Award</b></p> <p>"Uncertainty in Decommissioning, the Benefits of 3D Simulation"  Authors: Lawrence Wharmby, Luc Ardellier, OREKA Solutions</p>
2013	
<p><b>ANS Award</b></p> <p>"Communicating Performance Assessments Results"  Author: Mark Layton, Savannah River Remediation LLC</p>	<p><b>ASME Award</b></p> <p>"Methods for Reduction of the Minimal Detectable Activity in Neutron Assay of High Mass/High Z Objects"  Authors: Alan Simpson and Martin Clapham, Pajarito Scientific Corporation</p>

2012	
<b>ANS Award</b> Authors: Dawn Wellman, Kirk Cantrell, Mark Freshley, Michael Truex, Pacific Northwest National Laboratory; Evan Dresel, Future Farming Systems Research Division	<b>ASME Award</b> Authors: Sanghoon Lee, Woo-Seok Choi, Ki-Young Kim, Je-Eon Jeon, Ki Seog Seo, Korea Atomic Energy Research Institute
2011	
<b>ANS Award</b> Authors: David Hobbs, Kathryn Taylor-Pashow, Fernando Fondeur, Savannah River National Laboratory; Samuel Fink, Savannah River Nuclear Solutions, LLC	<b>ASME Award</b> Authors: Dawn Wellman, Shas Mattigod, Lirong Zhong, Ann Miracle, Fred Tilton, Pacific Northwest National Laboratory; Susan Hubbard, Yuxin Wu, Lawrence Berkeley National Laboratory; Martin Foote, MSE Technology Applications
2010	
<b>ANS Award</b> Authors: Earl Easton, Christopher Bajwa, US NRC	<b>ASME Award</b> Authors: John Morse, Michael Thompson, US DOE; Scott Petersen, CH2M HILL PRC; Matthew Tonkin, S.S. Papadopoulos & Associates, Inc.
2009	
<b>ANS Award</b> Author: Joseph Podlaha, Nuclear Research Institute Rex PLC	<b>ASME Award</b> Authors: Kenneth Krupka, Kirk Cantrell, Todd Schaef, Bruce Arey, William Deutsch, Michael Lindberg, Pacific Northwest National Laboratory; Steve Heald, Argonne National Laboratory
2008	
<b>ANS Award</b> Authors: Leah Spradley, Mark Abkowitz, James Clarke, Vanderbilt University	<b>ASME Award</b> Author: Sean White, Washington Regulatory and Environmental Services
2007	
<b>ANS Award</b> Authors: Keith Witwer, Eric Dysland, AMEC Earth and Environmental, Inc., Geomelt Division; Larry Bagaasen, Steve Schlata, Dong-Sang Kim, Mike Schweiger, Pavel Hрма, Pacific Northwest National Laboratory	<b>ASME Award</b> Authors: Jhon Carilli, Gary Pyles, US DOE National Nuclear Security Administration, Nevada Site Office; Susan Krenzien, Navarro Research and Engineering; John Wrapp, National Security Technologies, LLC
2006	
<b>ANS Award</b> Author: J. Wagner- Fluor Fernald	<b>ASME Award</b> Authors: D. W. Esh, A. C. Ridge, M. Thaggard, US NRC
2005	
<b>ANS Award</b> Authors: Ryan A. Wymore, Lance N. Peterson, North Wind, Inc.; Kent S. Sorenson, Jr., CDM	<b>ASME Award</b> Authors: Margaret MacDonell, John Peterson, Andrew Davidson, Argonne National Laboratory; Shanna Collie, Tetra Tech EM, Inc.