

Session	Author	Affiliation	Title	Abstract	Q&A
Plenary	Tonya Nichols	U.S. EPA	<a href="#">National Biodefense Strategy Calls for a Robust Decontamination Capability</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Dana Tullis	U.S. Coast Guard	Coastal Operational Resiliency (AnCOR) Project	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Norman Govan	U.K. Defence Science and Technology Laboratory	The Skripal Incident – Addressing the Decontamination Challenge	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Sara Casey	U.K. Department for Environment, Food, and Rural Affairs	Waste Management following the Novichok Incidents in the U.K.	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Robert Kadlec	U.S. Department of Health and Human Services	U.S. Biodefense Enterprise and National Biodefense Strategy		<a href="#">Q&amp;A</a>
	Martin McComb	U.S. EPA	<a href="#">The California Camp Fire: EPA's Response Efforts</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
Concurrent Session 1: Regional, State and Local Initiatives	John Howard	North Carolina Department of Agriculture & Consumer Services	Animal Carcass Disposal Following Hurricane Florence	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Jason Doerflein	Marion County Public Health Department	<a href="#">Case Study: A Fentanyl Incident, Notification, Response, and Remediation. A Local Jurisdiction's Perspective</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>

	Rosanna Anderson	U.S. Department of Homeland Security	How S&T is Supporting the DHS Counterdrug Mission and Combating Opioid Smuggling	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Amy Dean	U.S. Army, Chemical Biological Center	Teaming of Federal and Private Sector Capabilities on Highly Hazardous Chemical and Biological Agent Remediation Projects	<a href="#">View</a>	<a href="#">Q&amp;A</a>
Concurrent Session 1: Biological Agent Decontamination	Hong Chen	U.S. Department of Agriculture	Evaluation of Three Devitalization Methods for Plant Origin Materials as Quarantine Treatment at U.S. Ports of Entry	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Tony Buhr	Naval Surface Warfare Center Dahlgren Division	<a href="#">Decontaminating Materials Contaminated with an Enveloped RNA Virus Surrogate for Influenza, Ebola, and Smallpox, and <i>Francisella</i> Vegetative Cells Using Hot Humid Air</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Barbara Alexander	National Institute for Occupational Safety and Health	<a href="#">Development of a Dry Decontamination Method for Mass Casualty Events – The NIOSH DryCon System</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Leroy Mickelsen	U.S. EPA	<a href="#">Laboratory Decontamination Using Low Concentration Hydrogen Peroxide</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
CONCURRENT SESSION 2 – CROSS- CUTTING INNOVATION	Rouzbeh Tehrani	Temple University	Will 2D Nanomaterials be the New Security Threat in the Next Decade?	<a href="#">View</a>	<a href="#">Q&amp;A</a>

	Mitch Pryor	University of Texas at Austin	Recent Advances in Autonomous Radiation Survey and Sample Collection for SRNL	View	<a href="#">Q&amp;A</a>
	Alvin Smith	California Institute of Technology, Jet Propulsion Laboratory	<a href="#">NASA's Sterilization Working Group for Backwards Planetary Protection for Mars Sample Return Planning</a>	View	<a href="#">Q&amp;A</a>
	J. Nick Benardini	National Aeronautics and Space Administration	Biological Indicator and Test Program for Sterility Assurance for Mars Sample Return Planning	View	<a href="#">Q&amp;A</a>
Concurrent Session 2 – Public Engagement	Keely Maxwell	U.S. Environmental Protection Agency	<a href="#">Measuring Success Beyond Cleanup Levels in Environmental Decontamination</a>	View	<a href="#">Q&amp;A</a>
	Kate McCarthy- Barnett	U.S. Department of Homeland Security	Mass Casualty Decontamination Research: What Next?	View	<a href="#">Q&amp;A</a>
	Colin Hayes	Eastern Research Group, Inc	Management and Disposal of Vehicles Following a Wide Area Incident	View	<a href="#">Q&amp;A</a>
	Viktoriya Plotkin	U.S. Environmental Protection Agency	EPA's Office of Research & Development Engagement Efforts with State, Local, and Tribal Government	View	<a href="#">Q&amp;A</a>

Concurrent Session 3 – Fentanyl Detection & Cleanup	Evan Durnal	MRIGlobal	Scenario Specific Opiate Detector Selection	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Stuart Willison	U.S. Environmental Protection Agency	<a href="#">Evaluation of Environmental Fentanyl Contamination and Sampling Effects for Remediating Affected Areas</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Amanda Schenning	U.S. Army Combat Capabilities Development Command	<a href="#">Decontaminant Reactivity Screen with Select Fentanyls</a>	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Lukas Oudejans	U.S. Environmental Protection Agency	Surface Decontamination Options for a Fentanyl Contaminated Building Interior	<a href="#">View</a>	<a href="#">Q&amp;A</a>
Concurrent Session 3 – Water Infrastructure Protection & Decontamination	Matthew Magnuson, Jeffrey Szabo	U.S. Environmental Protection Agency	(Un)expected Water Contamination Research	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Collin Knox Coleman	University of North Carolina at Chapel Hill	Microbial Inactivation by Peracetic Acid in Sewage and Feces to Optimize Disinfection of Highly Infectious Waste Waters	<a href="#">View</a>	<a href="#">Q&amp;A</a>

	Jacob Lalley	U.S. Army Engineer Research and Development Center	<a href="#">The PFAS Effluent Treatment System (DETS): Design, Construction and Testing</a>	View	<a href="#">Q&amp;A</a>
	Jeffrey Szabo	U.S. Environmental Protection Agency	<a href="#">Disinfection of <i>Legionella pneumophila</i> within Drinking Water Biofilms Using Various Treatment</a>	View	<a href="#">Q&amp;A</a>
Concurrent Session 4 – Biological Agent Sampling & Analysis Methods	Johnathan Thornburg	RTI International	<a href="#">Technologies Feasibility of a Bioaerosol Sampling Network to Measure Resuspended Spores</a>	View	<a href="#">Q&amp;A</a>
	Anne Mikelonis	U.S. Environmental Protection Agency	<a href="#">Comparison of Sampling Methods for an Extended Duration Outdoor Biological Study</a>	View	<a href="#">Q&amp;A</a>
	Lindsay Gabbert	Plum Island Animal Disease Center	<a href="#">Development of an Improved Concrete Testing Coupon for Recovery of Viruses in Quantitative Carrier and Decontamination Efficacy Tests</a>	View	<a href="#">Q&amp;A</a>

	Scott Nelson	Battelle	Evaluation of Analytical Methods for the Detection of <i>Bacillus anthracis</i> Spores: Compatibility with Real-World Samples Collected from Outdoor and Subway Surfaces	View	<a href="#">Q&amp;A</a>
Concurrent Session 4 – Technology & Software Supporting Disaster Response	Ellen Shumaker	RTI International	A Virtual Reality Platform for Training Personnel on Biological Surface Sampling Techniques	View	<a href="#">Q&amp;A</a>
	Antony Williams	U.S. Environmental Protection Agency	An Introduction to the U.S.-EPA CompTox Chemicals Dashboard – Web-Based Access to Data for ~900,000 Chemicals	View	<a href="#">Q&amp;A</a>
	Jonathan Pettit	U.S. Environmental Protection Agency	An Open Source Quick Response System for Tracking Personnel and Resources	View	<a href="#">Q&amp;A</a>
	Colin Hayes	Eastern Research Group, Inc.	A GIS Application for Developing Biological Sampling Designs and Estimating Resources Necessary for Implementation	View	Q&A

Concurrent Session 5 – Beyond Water Infrastructure	Katherine Ratliff	U.S. Environmental Protection Agency	Using Stormwater Models to Inform Recovery Efforts Following a Wide-Area Contamination Incident	View	<a href="#">Q&amp;A</a>
	Michael Kaminski	Argonne National Laboratory	Wash Penalty Factors: Insight into the Effects of Water Wash Down of Building Materials for RN Decontamination	View	<a href="#">Q&amp;A</a>
	Katherine Hepler	Argonne National Laboratory	Logistics Modeling of a Wide Area Decontamination Operation Using Wash Down Techniques	View	<a href="#">Q&amp;A</a>
	James Goodrich	U.S. Environmental Protection Agency	Water-On-Wheels (WOW) Emergency Water Treatment System Cart	View	<a href="#">Q&amp;A</a>
Concurrent Session 5 – Biological Agent Decontamination	William Richter	Battelle	Decontamination Studies Related to Vehicles in a Biologically- Contaminated Wide Area: Interior Vehicle Decontamination Using Vapor Phase Hydrogen Peroxide	View	<a href="#">Q&amp;A</a>
	Julian Rosenberg	Sabre Companies	Virucidal Efficacy of DiKlor® Chlorine Dioxide on Diverse Vehicle Surface Materials in an Automated Commercial Truck Wash under Field Conditions	View	<a href="#">Q&amp;A</a>

	Daniel Lorch	METSS Corp	Decontamination of Category A Viruses on Porous Surfaces and Sensitive Equipment Using Chloride Dioxide	View	<a href="#">Q&amp;A</a>
	Christine Tomlinson	U.S. Environmental Protection Agency	Novel Methods for Environmental Remediation of <i>Bacillus</i> Species	View	<a href="#">Q&amp;A</a>
Concurrent Session 6 – Chemical Agent Research	David Bradley	U.S. Department of Homeland Security	Development and Application of Unventilated Monitoring to Recovery following a Chemical Release	View	<a href="#">Q&amp;A</a>
	Kristen Keteles	<i>U.S. Environmental Protection Agency</i>	Establishing Risk-Based Action Levels for Unique Exposure Scenarios in Response to Illegal Pesticide Applications	View	<a href="#">Q&amp;A</a>
	Joanne Larner	University of Hertfordshire	Evidence-Based Mass Casualty Decontamination Strategies for Responding to Chemical Incidents	View	<a href="#">Q&amp;A</a>
	Patrick Burton	Sandia National Laboratories	Systematic Optimization of High Activity Neutralization Materials for Bulk Chemical Agent Detoxification	View	<a href="#">Q&amp;A</a>
	Michael Pirhalla	U.S. Environmental Protection Agency	Relating Laboratory-Scale Dispersion Experiments to Full- Scale Field Data from Jack Rabbit II	View	<a href="#">Q&amp;A</a>



Concurrent Session 6 – Waste Management	Gary Flory	Virginia Department of Environmental Quality	Responding to African Swine Fever (ASF): Research to Develop New Methods to Manage ASF Infected Animal Carcasses	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Paul Lemieux	U.S. Environmental Protection Agency	Assessment of the Biosecurity of Animal Mortality Size Reduction Using Horizontal Grinders Prior to On-Farm Composting	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Martin Denison	Reaction Engineering International	Simulation of Incineration of Waste Generated from Cleanup following Chemical/Biological Incidents	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Paul Lemieux	U.S. Environmental Protection Agency	Control of Emissions from Combustion of Cesium- Contaminated Biomass via Sorbent Injection	<a href="#">View</a>	<a href="#">Q&amp;A</a>
	Timothy Boe	U.S. Environmental Protection Agency	Disaster Waste Management (WM) Tools – Improving Their Effectiveness While Minimizing Resource Needs	<a href="#">View</a>	<a href="#">Q&amp;A</a>
CONCURRENT SESSION 7 – RADIOLOGICAL AGENT RESEARCH	AJ Nosek	U.S. Nuclear Regulatory Commission	Overview of the MACCS Consequence Analysis Computer Code	<a href="#">View</a>	<a href="#">Q&amp;A</a>

	Zakir Kazi	Defence Research and Development Canada	Effective RN Decontamination of Sensitive Equipment Method Formulation Using Non- Radiological Surrogates	View	<a href="#">Q&amp;A</a>
	Ryan James	Battelle	Assessment of Non-Destructive Decontamination Methodologies for Mixed Porous Surfaces under High Humidity and UV Conditions	View	<a href="#">Q&amp;A</a>
	Bruce Letellier	Serco Inc.	EPA's Integrated Rad Remediation Decision Support Tool (IRRD-ST) to Optimize Radiological Cleanup Decisions	View	<a href="#">Q&amp;A</a>
Concurrent Session 7 – Biological Agent Decontamination	William Guglielmo	ITL Solutions	Efficacy of Waterless Spray on Sensitive Equipment Decontamination System	View	<a href="#">Q&amp;A</a>
	Joseph Wood	U.S. Environmental Protection Agency	The Use of Low Concentration Hydrogen Peroxide Vapor for the Inactivation of Ebola Virus Surrogates MS2 and Phi6 Bacteriophages	View	<a href="#">Q&amp;A</a>
	John Archer	U.S. Environmental Protection Agency	Evaluation of an Electrostatic Sprayer for Personnel PPE Bio Decontamination – Mannequin Testing	View	<a href="#">Q&amp;A</a>

	Mark Tucker	Decon7 Systems, LLC	The D7 Decontaminant: Results of Recent Laboratory Tests and Field Applications Against Toxic Chemicals and Biological Pathogens	View	<a href="#">Q&amp;A</a>
General Poster Session	Kirk Baker	U.S. Environmental Protection Agency	<a href="#">Potential Local to Regional Scale Impacts from Wildfire Re- emission of Hypothetical Radiological Contamination Incidents</a>	View	
	Tony Buhr	Naval Surface Warfare Center Dahlgren Division	Combining Spore Germination and Heat Inactivation to Decontaminate Materials Contaminated with <i>Bacillus anthracis</i> Spores	View	
	Julia Capri	Consolidated Safety Services, Inc.	Analysis of Chemical Warfare Agents by GC-MS Using Multimode Inlet for Large Volume Injection	View	
	Julia Capri	Consolidated Safety Services, Inc.	Preparation and Analysis of Opioids in Environmental Samples	View	
	Joanne Larner	University of Hertfordshire	Evaluation of Emergency Skin Decontamination Protocols in Response to an "Acid Attack"	View	

	Joanne Larner	University of Hertfordshire	Decontamination of Hair and Related Issues Following a Mass Casualty CBRN/HazMat Incident	<a href="#">View</a>	
	Joanne Larner	University of Hertfordshire	Development of a Rapid, High-Throughput Method for Quantifying Residual Caesium in Building Materials as Part of a Decontamination Evaluation Procedure	<a href="#">View</a>	
	Joanne Larner	University of Hertfordshire	Lilliput or Brobdingnag: Does Scale Influence Decontamination Studies?	<a href="#">View</a>	
	Joanne Larner	University of Hertfordshire	Derivation and Use of an Empirical, Time-Resolved Model for Predicting Residual Skin Contamination as a Decision- Aiding Tool for First Responders (“ASPIRE”)	<a href="#">View</a>	
	Joanne Larner	University of Hertfordshire	Primary Response Incident Scene Management (PRISM): New U.S. Federal Guidance for Responding to a Chemical Incident	<a href="#">View</a>	

	Joanne Larner	University of Hertfordshire	Downstream Hazards Associated with Mass Casualty Decontamination can be Contained or Minimised by Adoption of the PRISM Triple Protocol	<a href="#">View</a>	
	Noah Craft	Virginia Wesleyan University	<a href="#">A Novel Method Using Phycoremediation to Reduce Toxic Metals in Surface Waters</a>	<a href="#">View</a>	
	Brian France	TDA Research, Inc.	Decontamination Systems for First Responders	<a href="#">View</a>	
	Vukica Jovanović	Old Dominion University	<a href="#">Examining the Extent of Environmental Compliance Requirements on Mechatronic Products and their Implementation through Product Lifecycle Management</a>	<a href="#">View</a>	
	Michael Kaminski	Argonne National Laboratory	<a href="#">The Argonne SuperGel for CBRN Decontamination</a>	<a href="#">View</a>	
	Michael Kaminski	Argonne National Laboratory	<a href="#">Radiological Recovery Logistics Tool</a>	<a href="#">View</a>	
	Jacob Lalley	U.S. Army Engineer Research and Development Center	<a href="#">Intelligence Database and Tools for Chemical Hazards – A Program to Develop Tools to Assist Soldiers in an Environment with Toxic Industrial Chemicals</a>	<a href="#">View</a>	

	Tonya Nichols	U.S. Environmental Protection Agency	Decontamination through a One Health Lens	<a href="#">View</a>	
	Michael Omary	<i>APD Clean Water Technologies Group</i>	"Smart Water Ions Filtration Technology" (SWIFT™) "Ecology Healer Filter Reactor" (EHR™)	<a href="#">View</a>	
	Lukas Oudejans	U.S. Environmental Protection Agency	Research on Low Level Hydrogen Peroxide Fumigation for Remediation of Indoor Environments	<a href="#">View</a>	
	Barrett Richter	Battelle	A Stochastic Model for Evaluating Interconnected Critical Infrastructure Decontamination and Recovery	<a href="#">View</a>	
	David See	Battelle	<a href="#">Physical Removal Options for Porous/Permeable Materials Contaminated with a Persistent Chemical Warfare Agent</a>	<a href="#">View</a>	
	Jonathan Shireman	APTIM Federal Services	<a href="#">Fate and Transport Modeling of Urban Radiological Contamination</a>	<a href="#">View</a>	
	Michelle Sunderman	Battelle	Evaluation of Altered Environmental Conditions as a Decontamination Approach for Non-Spore-Forming Biological Agents	<a href="#">View</a>	

	Nathaniel Talley	Luna Innovations Inc.	<a href="#">E.coREADi: Automated Microbiological Water Analysis</a>	<a href="#">View</a>	
	Scott Vogel	American Bio Recovery Association	<a href="#">Are You Properly Assessing Risk when the Call Comes in?</a>	<a href="#">View</a>	
Student Poster Competition	Owen Gibson	U.S. Coast Guard	<a href="#">Analyzing U.S. Coast Guard Facilities for Operational Resiliency</a>	<a href="#">View</a>	
	Katherine Hepler	Argonne National Laboratory	<a href="#">The Effects of Contaminant- Aging on Decontamination Efficacy for Rapid Remediation of Concrete Surfaces</a>	<a href="#">View</a>	
	Collin Knox Coleman	University of North Carolina at Chapel Hill	<a href="#">The Impact of Antecedent Growth Conditions and Primary Effluent Derived Test Organisms in Point-of-Use Disinfection Testing</a>	<a href="#">View</a>	
	Jessie Pope	Mississippi State University	<a href="#">Conceptual Development and Testing of a Chitosan/Graphene Oxide (CSGO) "Bandage" to Isolate and Remove Chemical Contamination from Surfaces</a>	<a href="#">View</a>	
	Nicolas Santiago	Argonne National Laboratory	<a href="#">Temperature Controlled Radiological Decontamination</a>	<a href="#">View</a>	

	Emily Titus	AFIT	<a href="#">Personnel Decontamination: Understanding the 90% Solution</a>	<a href="#">View</a>	
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