

AGENDA

AGENDA AT-A-GLANCE

<p>Day 1, Tuesday Nov 19</p> <p>7:00 AM Registration</p> <p>8:00 AM Opening <i>Plenary Session</i></p> <p>11:50 AM Lunch <i>70 min</i></p> <p>5:25 PM Adjourn</p>	<p>Day 2, Wednesday Nov 20</p> <p>7:30 AM Registration</p> <p>8:00 AM Opening <i>Concurrent Sessions</i></p> <p>11:40 AM Lunch <i>80 min</i></p> <p>5:30 PM Adjourn</p>	<p>Day 3, Thursday Nov 21</p> <p>7:30 AM Registration</p> <p>8:00 AM Opening <i>Concurrent Sessions</i></p> <p>12:30 PM Adjourn</p>
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SESSION TOPIC GUIDE

Beyond Water Infrastructure	Day 2, Concurrent Session 5	1:00 PM – 2:45 PM	York Room
Biological Agent Decontamination	Day 1, Concurrent Session 1	1:00 PM – 3:00 PM	Stratford Room
	Day 2, Concurrent Session 5	1:00 PM – 2:45 PM	
	Day 3, Concurrent Session 7	10:20 AM – 12:00 PM	
Biological Agent Sampling & Analysis Methods	Day 2, Concurrent Session 4	10:00 AM – 11:40 AM	York Room
Chemical Agent Research	Day 3, Concurrent Session 6	8:00 AM – 10:05 AM	York Room
Cross-Cutting Innovation	Day 1, Concurrent Session 2	3:25 PM – 5:25 PM	York Room
Fentanyl Detection & Cleanup	Day 2, Concurrent Session 3	8:00 AM – 9:40 AM	York Room
Public Engagement	Day 1, Concurrent Session 2	3:25 PM – 5:25 PM	Stratford Room
Radiological Agent Research	Day 3, Concurrent Session 7	10:20 AM – 12:00 PM	York Room
Regional, State, & Local Initiatives	Day 1, Concurrent Session 1	1:00 PM – 3:00 PM	York Room
Tech Café & Poster Session	Day 2, Café and Poster Session	2:45 PM – 5:30 PM	York, Stratford, & Providence Rooms
Technology & Software Supporting Disaster Response	Day 2, Concurrent Session 4	10:00 AM – 11:40 AM	Stratford Room
Waste Management	Day 3, Concurrent Session 6	8:00 AM – 10:05 AM	Stratford Room
Water Infrastructure Protection & Decontamination	Day 2, Concurrent Session 3	8:00 AM – 9:40 AM	Stratford Room

DAY 1: TUESDAY, NOVEMBER 19, 2019

7:00 am Registration

Plenary Session

York & Stratford Rooms

8:00 am **Welcome**

Timothy Boe, Conference Chair | *U.S. Environmental Protection Agency*

8:10 am **Introduction**

Ted Stanich, Acting Associate Administrator | *U.S. Environmental Protection Agency, Office of Homeland Security*

8:25 am **US Biodefense Enterprise and National Biodefense Strategy**

Robert Kadlec, Assistant Secretary of Health and Human Services | *U.S. Department of Health and Human Services*

8:55 am **National Biodefense Strategy Calls for a Robust Decontamination Capability**

Tonya Nichols | *U.S. Environmental Protection Agency*

9:25 AM **BREAK**

9:50 AM **Coastal Operational Resiliency (AnCOR) Project**

Dana Tulis | *U.S. Coast Guard*

10:20 AM **The Skripal Incident - Addressing the Decontamination Challenge**

Norman Govan | *U.K. Defence Science and Technology Laboratory*

10:50 AM **Waste Management following the Novichok Incidents in the UK**

Sara Casey | *U.K. Department for Environment, Food and Rural Affairs*

11:20 AM **The California Camp Fire: EPA's Response Efforts**

Martin McComb | *U.S. Environmental Protection Agency*

11:50 AM **LUNCH**

Concurrent Sessions 1

Regional, State, & Local Initiatives

York Room

Biological Agent Decontamination

Stratford Room

1:00 PM **Animal Carcass Disposal Following Hurricane Florence**

John Howard, Joseph Hudyncia | *North Carolina Department of Agriculture and Consumer Services*

Evaluation of Three Devitalization Methods for Plant Origin Materials as Quarantine Treatment at US Ports of Entry

Hong Chen | *U.S. Department of Agriculture*

1:30 PM **Case Study: A Fentanyl Incident, Notification, Response, and Remediation. A Local Jurisdictions Perspective**

Jason Doerflein | *Marion County Public Health Department*

Decontaminating Materials Contaminated with an Enveloped RNA Virus Surrogate for Influenza, Ebola, and Smallpox, and *Francisella* Vegetative Cells using Hot Humid Air

Tony Buhr | *Naval Surface Warfare Center Dahlgren Division*

2:00 PM **How S&T is Supporting the DHS Counterdrug Mission and Combating Opioid Smuggling**
Rosanna Anderson | *U.S. Department of Homeland Security*

Development of a Dry Decontamination Method for Mass Casualty Events – the NIOSH DryCon System
Barbara Alexander | *National Institute for Occupational Safety and Health*

2:30 PM **Teaming of Federal and Private Sector Capabilities on Highly Hazardous Chemical and Biological Agent Remediation Projects**
Amy Dean | *U.S. Army, Chemical Biological Center*

Laboratory Decontamination Using Low-Concentration Hydrogen Peroxide
Leroy Mickelsen | *U.S. Environmental Protection Agency*

3:00 PM **BREAK**

Concurrent Sessions 2

Cross-Cutting Innovation

York Room

Public Engagement

Stratford Room

3:25 PM **Will 2D Nanomaterials be the New Security Threat in the Next Decade?**
Rouzbeh Tehrani | *Temple University*

Measuring Success Beyond Cleanup Levels in Environmental Decontamination
Keely Maxwell, Brittany Kiessling | *U.S. Environmental Protection Agency*

3:55 PM **Recent Advances in Autonomous Radiation Survey and Sample Collection for SRNL**
Mitch Pryor | *University of Texas at Austin*

Mass Casualty Decontamination Research: What Next?
Kate McCarthy-Barnett | *U.S. Department of Homeland Security*

4:25 PM **NASA's Sterilization Working Group for Backwards Planetary Protection for Mars Sample Return Planning**
Alvin Smith | *California Institute of Technology, Jet Propulsion Laboratory*

Management and Disposal of Vehicles Following a Wide Area Incident
Colin Hayes | *Eastern Research Group, Inc.*

4:55 PM **Biological Indicator and Test Program for Sterility Assurance for Mars Sample Return Planning**
J. Nick Benardini | *National Aeronautics and Space Administration*

EPA's Office of Research & Development Engagement Efforts with State, Local, and Tribal Government
Viktoriya Plotkin | *U.S. Environmental Protection Agency*

5:25 PM **DAY 1 ADJOURNS**

DAY 2: WEDNESDAY, NOVEMBER 20, 2019

7:30 AM Registration

Concurrent Sessions 3

Fentanyl Detection & Cleanup

York Room

Water Infrastructure Protection & Decontamination

Stratford Room

8:00 AM **Scenario Specific Opiate Detector Selection**
Evan Durnal | *MRIGlobal*

(Un)expected Water Contamination Research
Matthew Magnuson, Jeffrey Szabo | *U.S. Environmental Protection Agency*

8:25 AM **Evaluation of Environmental Fentanyl Contamination and Sampling Effects for Remediating Affected Areas**
Stuart Willison | *U.S. Environmental Protection Agency*

Microbial Inactivation by Peracetic Acid in Sewage and Feces to Optimize Disinfection of Highly Infectious Waste Waters
Collin Knox Coleman | *University of North Carolina at Chapel Hill*

8:50 AM **Decontaminant Reactivity Screen with Select Fentanyls**
Amanda Schenning | *U.S. Army Combat Capabilities Development Command*

The PFAS Effluent Treatment System (DETS): Design, Construction and Testing
Jacob Lalley | *U.S. Army Engineer Research and Development Center*

9:15 AM **Surface Decontamination Options for a Fentanyl Contaminated Building Interior**
Lukas Oudejans | *U.S. Environmental Protection Agency*

Disinfection of *Legionella pneumophila* within Drinking Water Biofilms using Various Treatment Technologies
Jeffrey Szabo | *U.S. Environmental Protection Agency*

9:40 AM BREAK

Concurrent Sessions 4

Biological Agent Sampling & Analysis Methods

York Room

Technology & Software Supporting Disaster Response

Stratford Room

10:00 AM **Feasibility of a Bioaerosol Sampling Network to Measure Resuspended Spores**
Johnathan Thornburg | *RTI International*

A Virtual Reality Platform for Training Personnel on Biological Surface Sampling Techniques
Ellen Shumaker | *RTI International*

10:25 AM **Comparison of Sampling Methods for an Extended Duration Outdoor Biological Study**
Anne Mikelonis | *U.S. Environmental Protection Agency*

An Introduction to the US-EPA CompTox Chemicals Dashboard – Web-based Access to Data for ~900,000 Chemicals
Antony Williams | *U.S. Environmental Protection Agency*

10:50 AM **Development of an Improved Concrete Testing Coupon for Recovery of Viruses in Quantitative Carrier and Decontamination Efficacy Tests**
Lindsay Gabbert | *Plum Island Animal Disease Center*

An Open Source Quick Response System for Tracking Personnel and Resources
Jonathan Pettit | *U.S. Environmental Protection Agency*

11:15 AM **Evaluation of Analytical Methods for the Detection of *Bacillus anthracis* spores: Compatibility with Real-World Samples Collected from Outdoor and Subway Surfaces**
Scott Nelson | *Battelle*

A GIS Application for Developing Biological Sampling Designs and Estimating Resources Necessary for Implementation
Colin Hayes | *Eastern Research Group, Inc.*

11:40 AM **LUNCH**

Concurrent Sessions 5

Beyond Water Infrastructure

York Room

Biological Agent Decontamination

Stratford Room

1:00 PM **Using Stormwater Models to Inform Recovery Efforts Following a Wide-Area Contamination Incident**
Katherine Ratliff | *U.S. Environmental Protection Agency*

Decontamination Studies Related to Vehicles in a Biologically-Contaminated Wide Area: Interior Vehicle Decontamination using Vapor Phase Hydrogen Peroxide
William Richter | *Battelle*

1:25 PM **Wash Penalty Factors: Insight into the Effects of Water Wash Down of Building Materials for RN Decontamination**
Michael Kaminski | *Argonne National Laboratory*

Virucidal Efficacy of DiKlor® Chlorine Dioxide on Diverse Vehicle Surface Materials in an Automated Commercial Truck Wash under Field Conditions
Julian Rosenberg | *Sabre Companies*

1:50 PM **Logistics Modeling of a Wide Area Decontamination Operation using Wash Down Techniques**
Katherine Hepler | *Argonne National Laboratory*

Decontamination of Category A Viruses on Porous Surfaces and Sensitive Equipment using Chloride Dioxide
Daniel Lorch | *METSS Corporation*

2:15 PM **Water-On-Wheels (WOW) Emergency Water Treatment System Cart**
James Goodrich | *U.S. Environmental Protection Agency*

Novel Methods for Environmental Remediation of *Bacillus* species
Christine Tomlinson | *U.S. Environmental Protection Agency*

2:40 PM

ANNOUNCEMENT: Call for a CBRN Mitigation and Recovery International Technical Working Group
Michael Kaminski | *Argonne National Laboratory*

Technology Café & Poster Session

York, Stratford, & Providence Rooms

2:45–5:30 PM Join us in the York and Stratford Rooms to view posters, interact with poster presenters, and review posters as part of the student poster competition, and the Providence Room to view technical demonstrations to gain hands-on experience with some of the technology discussed at the conference.

5:30 PM **DAY 2 ADJOURNS**

DAY 3: THURSDAY, NOVEMBER 21, 2019

7:30 AM Registration

Concurrent Sessions 6

Chemical Agent Research

York Room

8:00 AM Development and Application of Unventilated Monitoring to Recovery following a Chemical Release

David Bradley | *U.S. Department of Homeland Security*

8:25 AM Establishing Risk-based Action Levels for Unique Exposure Scenarios in Response to Illegal Pesticide Applications

Kristen Keteles | *U.S. Environmental Protection Agency*

8:50 AM Evidence-based Mass Casualty Decontamination Strategies for Responding to Chemical Incidents

Joanne Larner | *University of Hertfordshire*

9:15 AM Systematic Optimization of High Activity Neutralization Materials for Bulk Chemical Agent Detoxification

Patrick Burton | *Sandia National Laboratories*

9:40 AM Relating Laboratory-Scale Dispersion Experiments to Full-Scale Field Data from Jack Rabbit II

Michael Pirhalla | *U.S. Environmental Protection Agency*

Waste Management

Stratford Room

Responding to African Swine Fever (ASF): Research to Develop New Methods to Manage ASF Infected Animal Carcasses

Gary Flory | *Virginia Department of Environmental Quality*

Assessment of the Biosecurity of Animal Mortality Size Reduction Using Horizontal Grinders Prior to On-Farm Composting

Paul Lemieux | *U.S. Environmental Protection Agency*

Simulation of Incineration of Waste Generated from Cleanup following Chemical/Biological Incidents

Martin Denison | *Reaction Engineering International*

Control of Emissions from Combustion of Cesium-Contaminated Biomass via Sorbent Injection

Paul Lemieux | *U.S. Environmental Protection Agency*

Disaster Waste Management (WM) Tools - Improving Their Effectiveness While Minimizing Resource Needs

Timothy Boe | *U.S. Environmental Protection Agency*

10:05 AM BREAK

Concurrent Sessions 7

Radiological Agent Research

York Room

10:20 AM Overview of the MACCS Consequence Analysis Computer Code

AJ Nosek | *U.S. Nuclear Regulatory Commission*

10:45 AM Effective RN Decontamination of Sensitive Equipment Method Formulation Using Non-Radiological Surrogates

Zakir Kazi | *Defence Research and Development Canada*

Biological Agent Decontamination

Stratford Room

Efficacy of Waterless Spray on Sensitive Equipment Decontamination System

William Guglielmo | *ITL Solutions*

The Use of Low Concentration Hydrogen Peroxide Vapor for the Inactivation of Ebola Virus Surrogates MS2 and Phi6 Bacteriophages

Joseph Wood | *U.S. Environmental Protection Agency*

11:10 AM **Assessment of Non-Destructive Decontamination Methodologies for Mixed Porous Surfaces under High Humidity and UV Conditions**
Ryan James | *Battelle*

Evaluation of an Electrostatic Sprayer for Personnel PPE Bio Decontamination – Mannequin Testing
John Archer | *U.S. Environmental Protection Agency*

11:35 AM **EPA’s Integrated Rad Remediation Decision Support Tool (IRRD-ST) to Optimize Radiological Cleanup Decisions**
Bruce Letellier | *Serco Inc.*

The D7 Decontaminant: Results of Recent Laboratory Tests and Field Applications Against Toxic Chemicals and Biological Pathogens
Mark Tucker | *Decon7 Systems, LLC*

Closing

Stratford Room

12:00 PM **Closing Remarks**
Sarah Taft | *U.S. Environmental Protection Agency*

12:30 PM **CONFERENCE ADJOURNS**