Agenda

Agenda at-a-glance

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|  | Day 1, Tuesday Nov 19 |  | Day 2, Wednesday Nov 20 |  | Day 3, Thursday Nov 21 |
| 7:00 AM | Registration | 7:30 AM | Registration | 7:30 AM | Registration |
| 8:00 AM | OpeningPlenary Session | 8:00 AM | OpeningConcurrent Sessions | 8:00 AM | OpeningConcurrent Sessions |
| 11:50 AM | Lunch70 min | 11:40 AM | Lunch80 min | 12:30 PM | Adjourn |
| 5:25 PM | Adjourn | 5:30 PM | Adjourn |  |  |

Session Topic Guide

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| --- | --- | --- |
| Beyond Water Infrastructure H | Day 2, Concurrent Session 5 1:00 PM – 2:45 PM | York Room |
| Biological Agent Decontamination BDe | Day 1, Concurrent Session 1 1:00 PM – 3:00 PMDay 2, Concurrent Session 5 1:00 PM – 2:45 PMDay 3, Concurrent Session 7 10:20 AM – 12:00 PM | Stratford Room |
| Biological Agent Sampling & Analysis Methods BS | Day 2, Concurrent Session 4 10:00 AM – 11:40 AM | York Room |
| Chemical Agent ResearchC | Day 3, Concurrent Session 6 8:00 AM – 10:05 AM | York Room |
| Cross-Cutting Innovation CBR | Day 1, Concurrent Session 2 3:25 PM – 5:25 PM | York Room |
| Fentanyl Detection & Cleanup CDe | Day 2, Concurrent Session 3 8:00 AM – 9:40 AM | York Room |
| Public EngagementL | Day 1, Concurrent Session 2 3:25 PM – 5:25 PM | Stratford Room |
| Radiological Agent ResearchR | Day 3, Concurrent Session 7 10:20 AM – 12:00 PM | York Room |
| Regional, State, & Local InitiativesL | Day 1, Concurrent Session 1 1:00 PM – 3:00 PM | York Room |
| Tech Café & Poster Session  CBRHWDeDiL | Day 2, Café and Poster Session 2:45 PM – 5:30 PM | York, Stratford, and Providence Rooms |
| Technology & Software Supporting Disaster ResponseDi | Day 2, Concurrent Session 4 10:00 AM – 11:40 AM | Stratford Room |
| Waste ManagementW | Day 3, Concurrent Session 6 8:00 AM – 10:05 AM | Stratford Room |
| Water Infrastructure Protection & Decontamination  HDe | Day 2, Concurrent Session 3 8:00 AM – 9:40 AM | Stratford Room |

DAY 1: TUESDAY, November 19, 2019

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| 7:00 am | Registration |
| Plenary SessionYork & Stratford RoomsSession Chairs: Worth Calfee, Leroy Mickelsen, Lukas Oudejans, Ted Stanich, and Sarah Taft | *U.S. Environmental Protection Agency* |
| 8:00 am | WelcomeTimothy Boe, Conference Chair | U.S. Environmental Protection Agency |
| 8:10 am | IntroductionTed Stanich, Acting Associate Administrator | *U.S. Environmental Protection Agency*, Office of Homeland Security |
| 8:25 am | **U.S. 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 CapabilityTonya Nichols | U.S. Environmental Protection Agency |
| 9:25 AM | BREAK |
| 9:50 AM | Coastal Operational Resiliency (AnCOR) ProjectDana Tulis | *U.S. Coast Guard* |
| 10:20 AM | The Skripal Incident − Addressing the Decontamination ChallengeNorman Govan | *U.K. Defence Science and Technology Laboratory*  |
| 10:50 AM | Waste Management following the Novichok Incidents in the U.K.Sara Casey | *U.K. Department for Environment, Food, and Rural Affairs* |
| 11:20 AM | The California Camp Fire: EPA’s Response EffortsMartin McComb | *U.S. Environmental Protection Agency* |
| 11:50 AM | LUNCH |
| Concurrent Sessions 1 |
|  | Regional, State, & Local InitiativesYork RoomSession Chairs: * Gary Flory | *Virginia Department of Environmental Quality*
* Viktoriya Plotkin | *U.S. Environmental Protection Agency*
 | Biological Agent DecontaminationStratford RoomSession Chairs: * Sanjiv Shah | *U.S. Environmental Protection Agency*
* Worth Calfee | *U.S. Environmental Protection Agency*
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| 1:00 PM | Animal Carcass Disposal Following Hurricane FlorenceJohn Howard, Joseph Hudyncia | North Carolina Department of Agriculture & Consumer Services | Evaluation of Three Devitalization Methods for Plant Origin Materials as Quarantine Treatment at U.S. Ports of EntryHong Chen | U.S. Department of Agriculture |
| 1:30 PM | Case Study: A Fentanyl Incident, Notification, Response, and Remediation. A Local Jurisdiction’s PerspectiveJason 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 AirTony Buhr | Naval Surface Warfare Center Dahlgren Division |
| 2:00 PM | How S&T is Supporting the DHS Counterdrug Mission and Combating Opioid SmugglingRosanna Anderson | U.S. Department of Homeland Security | Development of a Dry Decontamination Method for Mass Casualty Events – The NIOSH DryCon SystemBarbara 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 ProjectsAmy Dean | U.S. Army, Chemical Biological Center | Laboratory Decontamination Using Low-Concentration Hydrogen PeroxideLeroy Mickelsen | U.S. Environmental Protection Agency |
| 3:00 PM | BREAK |
| Concurrent Sessions 2 |
|  | Cross-Cutting InnovationYork RoomSession Chairs: * Timothy Boe | *U.S. Environmental Protection Agency*
* Paul Lemieux | *U.S. Environmental Protection Agency*
 | Public EngagementStratford RoomSession Chairs: * Lahne Mattas-Curry | *U.S. Environmental Protection Agency*
* Brittany Kiessling | *U.S. Environmental Protection Agency*
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| 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 DecontaminationKeely Maxwell, Brittany Kiessling | U.S. Environmental Protection Agency |
| 3:55 PM | Recent Advances in Autonomous Radiation Survey and Sample Collection for SRNLMitch 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 PlanningAlvin Smith | California Institute of Technology, Jet Propulsion Laboratory | Management and Disposal of Vehicles Following a Wide Area IncidentColin Hayes | Eastern Research Group, Inc. |
| 4:55 PM | Biological Indicator and Test Program for Sterility Assurance for Mars Sample Return PlanningJ. Nick Benardini | *National Aeronautics and Space Administration* | EPA’s Office of Research & Development Engagement Efforts with State, Local, and Tribal GovernmentViktoriya Plotkin | U.S. Environmental Protection Agency |
| 5:25 PM  | **DAY 1 ADJOURNS** |

DAY 2: WEDNESDAY, november 20, 2019

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| 7:30 AM | Registration |
| Concurrent Sessions 3 |
|  | Fentanyl Detection & CleanupYork RoomSession Chairs: * John Archer | *U.S. Environmental Protection Agency*
* Lawrence Kaelin | *U.S. Environmental Protection Agency*
 | Water Infrastructure Protection & DecontaminationStratford Room Session Chairs:* Anne Mikelonis | *U.S. Environmental Protection Agency*
* Katherine Ratliff | *U.S. Environmental Protection Agency*
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| 8:00 AM | Scenario Specific Opiate Detector SelectionEvan Durnal | MRIGlobal | (Un)expected Water Contamination ResearchMatthew Magnuson, Jeffrey Szabo | U.S. Environmental Protection Agency |
| 8:25 AM | Evaluation of Environmental Fentanyl Contamination and Sampling Effects for Remediating Affected AreasStuart Willison | U.S. Environmental Protection Agency | Microbial Inactivation by Peracetic Acid in Sewage and Feces to Optimize Disinfection of Highly Infectious Waste WatersCollin Knox Coleman | University of North Carolina at Chapel Hill |
| 8:50 AM | Decontaminant Reactivity Screen with Select FentanylsAmanda Schenning | U.S. Army Combat Capabilities Development Command | The PFAS Effluent Treatment System (DETS): Design, Construction, and TestingJacob Lalley | U.S. Army Engineer Research and Development Center |
| 9:15 AM | Surface Decontamination Options for a Fentanyl Contaminated Building InteriorLukas Oudejans | U.S. Environmental Protection Agency | Disinfection of *Legionella pneumophila* within Drinking Water Biofilms Using Various Treatment TechnologiesJeffrey Szabo | *U.S. Environmental Protection Agency*  |
| 9:40 AM | BREAK |
| Concurrent Sessions 4 |
|  | Biological Agent Sampling & Analysis MethodsYork RoomSession Chairs:* Sanjiv Shah | *U.S. Environmental Protection Agency*
* Sarah Taft | *U.S. Environmental Protection Agency*
 | Technology & Software Supporting Disaster ResponseStratford RoomSession Chairs:* Stuart Willison | *U.S. Environmental Protection Agency*
* Paul Lemieux | *U.S. Environmental Protection Agency*
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| 10:00 AM | Feasibility of a Bioaerosol Sampling Network to Measure Resuspended SporesJonathan Thornburg | RTI International | A Virtual Reality Platform for Training Personnel on Biological Surface Sampling TechniquesEllen Shumaker | *RTI International* |
| 10:25 AM | Comparison of Sampling Methods for an Extended Duration Outdoor Biological StudyAnne Mikelonis | U.S. Environmental Protection Agency | An Introduction to the U.S.-EPA CompTox Chemicals Dashboard – Web-Based Access to Data for ≈900,000 ChemicalsAntony 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 TestsLindsay Gabbert | Plum Island Animal Disease Center | An Open Source Quick Response System for Tracking Personnel and ResourcesJonathan 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 SurfacesScott Nelson | Battelle | A GIS Application for Developing Biological Sampling Designs and Estimating Resources Necessary for ImplementationColin Hayes | Eastern Research Group, Inc. |
| 11:40 AM | LUNCH |
| Concurrent Sessions 5 |
|  | Beyond Water InfrastructureYork RoomSession Chairs:* Jeff Szabo | *U.S. Environmental Protection Agency*
* Stuart Willison | *U.S. Environmental Protection Agency*
 | Biological Agent DecontaminationStratford Room* Gary Flory | *Virginia Department of Environmental Quality*
* Shannon Serre | *U.S. Environmental Protection Agency*
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| 1:00 PM | Using Stormwater Models to Inform Recovery Efforts Following a Wide-Area Contamination IncidentKatherine Ratliff | U.S. Environmental Protection Agency | Decontamination Studies Related to Vehicles in a Biologically-Contaminated Wide Area: Interior Vehicle Decontamination Using Vapor Phase Hydrogen PeroxideWilliam Richter | Battelle |
| 1:25 PM | Wash Penalty Factors: Insight into the Effects of Water Wash Down of Building Materials for RN DecontaminationMichael Kaminski | Argonne National Laboratory | Virucidal Efficacy of DiKlor® Chlorine Dioxide on Diverse Vehicle Surface Materials in an Automated Commercial Truck Wash under Field ConditionsJulian Rosenberg | Sabre Companies |
| 1:50 PM | Logistics Modeling of a Wide Area Decontamination Operation Using Wash Down TechniquesKatherine Hepler | Argonne National Laboratory | Decontamination of Category A Viruses on Porous Surfaces and Sensitive Equipment Using Chloride DioxideDaniel Lorch | METSS Corporation |
| 2:15 PM | Water-On-Wheels (WOW) Emergency Water Treatment System CartJames Goodrich | U.S. Environmental Protection Agency | Novel Methods for Environmental Remediation of *Bacillus* SpeciesChristine Tomlinson | *U.S. Environmental Protection Agency* |
| 2:40 PM |  | ANNOUNCEMENT: Call for a CBRN Mitigation and Recovery International Technical Working GroupMichael Kaminski | Argonne National Laboratory |
| Technology Café & Poster SessionYork, 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

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| 7:30 AM | Registration |
| Concurrent Sessions 6 |
|  | Chemical Agent ResearchYork RoomSession Chairs:* Lukas Oudejans | *U.S. Environmental Protection Agency*
* Lawrence Kaelin | *U.S. Environmental Protection Agency*
 | Waste ManagementStratford Room Session Chairs:* John Archer | *U.S. Environmental Protection Agency*
* Joseph Wood | *U.S. Environmental Protection Agency*
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| 8:00 AM | Development and Application of Unventilated Monitoring to Recovery following a Chemical ReleaseDavid Bradley | *U.S. Department of Homeland Security* | Responding to African Swine Fever (ASF): Research to Develop New Methods to Manage ASF Infected Animal CarcassesGary Flory | *Virginia Department of Environmental Quality* |
| 8:25 AM | Establishing Risk-Based Action Levels for Unique Exposure Scenarios in Response to Illegal Pesticide ApplicationsKristen Keteles | U.S. Environmental Protection Agency | **Assessment of the Biosecurity of Animal Mortality Size Reduction Using Horizontal Grinders Prior to On-Farm Composting** Paul Lemieux | *U.S. Environmental Protection Agency* |
| 8:50 AM | Evidence-Based Mass Casualty Decontamination Strategies for Responding to Chemical IncidentsJoanne Larner | University of Hertfordshire | Simulation of Incineration of Waste Generated from Cleanup following Chemical/Biological IncidentsMartin Denison | Reaction Engineering International |
| 9:15 AM | Systematic Optimization of High Activity Neutralization Materials for Bulk Chemical Agent DetoxificationPatrick Burton | Sandia National Laboratories | Control of Emissions from Combustion of Cesium-Contaminated Biomass via Sorbent InjectionPaul Lemieux | U.S. Environmental Protection Agency |
| 9:40 AM | Relating Laboratory-Scale Dispersion Experiments to Full-Scale Field Data from Jack Rabbit IIMichael Pirhalla | U.S. Environmental Protection Agency | Disaster Waste Management (WM) Tools – Improving Their Effectiveness While Minimizing Resource NeedsTimothy Boe | U.S. Environmental Protection Agency |
| 10:05 AM | BREAK |
| Concurrent Sessions 7 |
|  | Radiological Agent ResearchYork RoomSession Chairs:* Timothy Boe | *U.S. Environmental Protection Agency*
* Katherine Ratliff | *U.S. Environmental Protection Agency*
 | Biological Agent DecontaminationStratford RoomSession Chairs:* Anne Mikelonis | *U.S. Environmental Protection Agency*
* Leroy Mickelsen | *U.S. Environmental Protection Agency*
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| 10:20 AM | Overview of the MACCS Consequence Analysis Computer CodeAJ Nosek | U.S. Nuclear Regulatory Commission | Efficacy of Waterless Spray on Sensitive Equipment Decontamination SystemWilliam Guglielmo | ITL Solutions |
| 10:45 AM | Effective RN Decontamination of Sensitive Equipment Method Formulation Using Non-Radiological SurrogatesZakir Kazi | Defence Research and Development Canada | The Use of Low Concentration Hydrogen Peroxide Vapor for the Inactivation of Ebola Virus Surrogates MS2 and Phi6 BacteriophagesJoseph Wood | U.S. Environmental Protection Agency |
| 11:10 AM | Assessment of Non-Destructive Decontamination Methodologies for Mixed Porous Surfaces under High Humidity and UV ConditionsRyan James | Battelle | Evaluation of an Electrostatic Sprayer for Personnel PPE Bio Decontamination – Mannequin TestingJohn 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 PathogensMark Tucker | Decon7 Systems, LLC |
| ClosingStratford Room |
| 12:00 PM | Closing RemarksSarah Taft | U.S. Environmental Protection Agency |
| 12:30 PM | CONFERENCE ADJOURNS |