



2021 Chemical Security Seminars Agenda – Detailed Virtual: Microsoft Teams Live (Registrants will receive links)

Week 1 – Wednesday, December 1, 2021
Theme: Chemical Threats and Countermeasures

11 AM – 3 PM ET (8 AM – 12 PM PT)

11:00 – 11:05 AM

Introductions and Welcome

Emcee: Annie Hunziker Boyer, Branch Chief, Policy, Rulemaking, and Engagement Branch,
Cybersecurity and Infrastructure Security Agency (CISA) Chemical Security

11:05 – 11:20 AM

Seminars Kick-Off

Speaker: Brandon Wales, Executive Director, CISA

11:20 – Noon

Session 1: State of Chemical Security

CISA has made substantial progress inspecting facilities, approving security plans, and building relationships with stakeholders to address security at our nation's high-risk chemical facilities. This session will highlight accomplishments from 2021 and will outline Associate Director Kelly Murray's vision for the future of the Chemical Facility Anti-Terrorism Standards (CFATS) program and ChemLock, CISA's brand new, completely voluntary chemical security initiative.

Speaker: Kelly Murray, Associate Director, CISA Chemical Security

Noon – 12:10 PM

Break

12:10 – 1:00 PM

Session 2: Fireside Chat: Industry Perspective on the Threat Landscape

As the threat environment evolves, industry security professionals must remain vigilant in preventing the exploitation of chemicals, and public-private collaboration is key to minimizing such risks. During this session, chemical security experts will address the challenges they face in threat mitigation, as well as the resources they use to identify, analyze, and understand cyber and physical threats to the industry worldwide.

Speakers: Scott Whelchel, Chief Security Officer, Global Director, Emergency Services and Security,
Dow and Chair, Chemical Sector Coordinating Council (SCC)

Gary Davis, Director of Security-Americas, Air Liquide and Vice Chair, Chemical SCC

Matt Fridley, Director of Security and Safety, Brenntag North America, and Immediate Past
Chair, Chemical SCC

Moderator: Annie Hunziker Boyer, CISA Chemical Security

1:00 – 1:10 PM

Break

1:10 – 1:40 PM

Session 3: Federal Bureau of Investigation (FBI) Chemical Threat Briefing*

The FBI receives numerous complaint calls and information regarding business email compromise scenarios where a fraudulent actor tries to impersonate a legitimate company and steals the victim company's assets in a fraudulent purchase. Some of the victims never get back their stolen assets. The FBI's Weapons of Mass Destruction Directorate (WMDD) works in tandem with the Internet Crimes Unit to provide awareness to companies who may fall victim to this type of crime, what they should look out for, and whom they should contact if they notice any suspicious requests for their products.

Speaker: Lisa Parnpichate, Supervisory Special Agent, FBI WMDD

***Closed Press**

1:40 – 1:50 PM

Break

1:50 – 2:50 PM

Session 4: Breakout Sessions

Risk-Based Performance Standards (RBPS) Deep Dive

As each chemical facility faces different security challenges, CISA developed 18 Risk-Based Performance Standards (RBPS) that all chemical facilities determined to be high-risk must meet in their security plans in order to comply with CFATS. CISA Chemical Security personnel will present a deep dive into the 18 performance standards and five overarching security objectives that the RBPS address, as well as best practices and lessons learned from industry.

Speaker: Kelly Spade, Program Analyst, Standardization and Evaluations, Compliance Branch, CISA Chemical Security

Moderator: Zeina Azar, Section Chief, Standardization and Evaluations Section, Compliance Branch CISA Chemical Security

Voluntary Chemical Security Initiatives: CISA ChemLock

Whether a small business or an international company, everyone who interacts with dangerous chemicals has a role to play in understanding the risk and taking collective action to prevent chemicals from being weaponized by terrorists. Learn how CISA's new ChemLock program provides facilities that possess dangerous chemicals services and tools to help them better understand the risks they face and to improve their chemical security posture in a way that works for their business model.

Speaker: Annie Hunziker Boyer, Branch Chief, Policy, Rulemaking, and Engagement Branch, CISA Chemical Security

Moderator: Audrey Speer, Program Specialist, Policy, Rulemaking, and Engagement Branch, CISA Chemical Security

Jack Rabbit III Program Updates

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) Chemical Security Analysis Center (CSAC) led the Jack Rabbit project of large-scale outdoor chlorine release trials, with a collaborative team of partners and cosponsors from government, industry, and academia. These field trials and follow-on studies filled critical data gaps for toxic inhalation hazard (TIH) chemical release modeling and emergency response procedures.

Building upon the successes of phases I and II, Jack Rabbit III continues the series of open-air toxic chemical release trials in a multi-agency effort to fill critical knowledge and data gaps and develop technologies to safeguard the nation from chemical threats. This session will provide an update on the findings of Jack Rabbit III.

Speakers: Dr. Shannon Fox, Director, Department of Homeland Security (DHS), Science and Technology Directorate (S&T), Chemical Security Analysis Center (CSAC)
Dr. Sun McMasters, Senior Research Scientist, DHS, S&T, CSAC
Jim Zarzycki, Senior Research Scientist, DHS, S&T, CSAC
Brian Owen, Researcher, DHS, S&T, CSAC

Moderator: Dr. Ryan Donaghy, Deputy Branch Chief, Policy, Rulemaking, and Engagement Branch, CISA Chemical Security



Week 2 — Wednesday, December 8, 2021 Theme: Cyber Threats and Emerging Trends

11 AM – 3 PM ET (8 AM – 12 PM PT)

11:00 AM – 11:05 AM

Introductions and Welcome

Emcee: Kristin Rubin, Section Chief, Communications and Engagement, Policy, Rulemaking, and Engagement Branch, CISA Chemical Security

11:05 – 11:15 AM

Week 2 Keynote

Speaker: Eric Goldstein, Executive Assistant Director, Cybersecurity Division, CISA (Invited)

11:15 – 12:45 PM

Session 1: FBI Case Study on Economic Espionage in the Chemical Sector*

Historically, economic espionage has targeted defense-related and high-tech industries. But recent FBI cases have shown that no industry, large or small, is immune to the threat. Any company with a proprietary product, process, or idea can be a target; any unprotected trade secret is vulnerable to theft by those who wish to illegally obtain innovations to increase their market share at a victim company's expense. In this case study, the FBI will present a case on economic espionage at a chemical facility and threats to the chemical sector.

Speakers: Jason Vanthomme, Supervisory Special Agent, FBI

Bill Leckrone, Special Agent, FBI

***Closed press**

12:45 – 1:00 PM

Break

1:00 – 1:45 PM

Session 2: Cyber Threat Hunting: Industrial Control Systems Security

Industrial control systems (ICS) are integral to operations, function, security, and safety. Compromise of these systems could lead to physical harm, loss or corruption of data, and reputational harm, among others. This session provides an overview of the threat to ICS, how CISA is working across many industries to enhance ICS security, and the resources that CISA provides to help facilities maintain secure ICS.

Speakers: Alex Reniers, Section Chief, Industrial Control Systems Section, CISA Cybersecurity Division

1:45 – 1:55 PM

Break

1:55 – 2:55 PM

Session 3: Cyber-Physical Convergence in the Private Sector

The growth of digital infrastructure and the increased adoption of technological solutions introduce several potential benefits for enhancing day-to-day operations and supporting real-time, guaranteed performance in safety-critical applications. However, increasingly interconnected cyber-physical systems (CPS) can also create expanded attack surfaces, where cyber and physical assets can be targeted, separately or simultaneously, to result in compromised systems and infrastructure. This session will focus on operating in today's threat environment of hybrid attacks that target both physical and cyber assets and the risks associated with siloed security functions. Speakers will also discuss the benefits of developing a holistic management strategy that emphasizes converged cyber and physical security functions that align with organizational priorities and business objectives.

Speakers: Sandra Parker, Global Improvement Director – Cybersecurity, Dow

Bradford Wilke, Senior Advisor for Cyber-Physical Convergence, CISA

Moderator: Todd Klessman, Deputy Associate Director, CISA Chemical Security

2:45 – 2:55 PM

Closing Remarks

Emcee: Kristin Rubin, CISA Chemical Security



Week 3 – Wednesday, December 15, 2021
Theme: Chemical Security Planning and Preparedness

11 AM – 3 PM ET (8 AM – 12 PM PT)

11:00 AM – 11:05 AM

Introductions and Welcome

Emcee: Dr. Ryan Donaghy, Deputy Branch Chief, Policy, Rulemaking, and Engagement Branch, CISA
Chemical Security

11:05 – 11:25 AM

Week 3 Keynotes

Speakers: Dr. David Mussington, Executive Assistant Director, Infrastructure Security Division, CISA
Alaina Clark, Assistant Director, Stakeholder Engagement Division, CISA

11:25 AM – 12:15 PM

Session 1: Case Study on Recent Disruptions in the Supply of Chlorine: Impact and Response

An unprecedented supply chain strain led to the shortage of chlorine and other water treatment chemicals early this year. This session will provide an overview of how this came to be, the impact to the nation's water supply, where we are going from here, and the coordinated public and private response.

Speakers: Robyn Brooks, Vice President, Health, Environment, Safety and Security, The Chlorine Institute

Steve Allgeier, Environmental Engineer, Office of Ground Water and Drinking Water, Water Security Division, Environmental Protection Agency (EPA)

12:15 – 12:25 PM

Break

12:25 – 1:25 PM

Session 2: Breakout Sessions

**Chemical Facility Anti-Terrorism Standards (CFATS) Personnel Surety Program (PSP)
Demo and Overview**

The CFATS Personnel Surety Program (PSP) ensures that individuals seeking access to restricted areas and critical assets are vetted for terrorist ties, as required under Risk-Based Performance Standard (RBPS) 12(iv). This session will focus on demonstrating the application tool and options to meet the reporting requirements for RBPS 12(iv), as well as best practices for implementation.

Speaker: Zeina Azar, Section Chief, Standardization and Evaluations, Compliance Branch CISA
Chemical Security

Moderator: Kelly Spade, Program Analyst, Standardization and Evaluations, Compliance Branch, CISA Chemical Security

CISA Exercises Workshop

CISA conducts cyber and physical security exercises with government and industry partners to enhance the security and resilience of critical infrastructure by working with partners to design and conduct exercises that range from small-scale, discussion-based exercises to large-scale, operations-based exercises. CISA also offers a broad portfolio of downloadable CISA Tabletop Exercise Packages (CTEPs) to serve as an off-the-shelf solution for various stakeholders' exercise needs. This session will provide an overview of the CTEP scenarios available for chemical security stakeholders and will leave attendees with an understanding of how to locate and select the appropriate scenarios, advice on how to facilitate and conduct an exercise for their organization, and who to reach out to within CISA to get assistance or to ask additional questions.

Speaker: Kevin Wilson, Senior Exercise Specialist, CISA Exercises

Moderator: Dr. Ryan Donaghy, CISA Chemical Security

Probabilistic Analysis for National Threats Hazards and Risks (PANTHR) Overview

DHS S&T has established the Probabilistic Analysis for National Threats Hazards and Risks (PANTHR) program to strengthen customer engagement within the homeland security enterprise by aligning chemical, biological, radiological, and nuclear (CBRN) hazard awareness and characterization activities to provide timely, accurate, and defensible decision support tools and knowledge to stakeholders. PANTHR provides critical technical information on CBRN hazards to decisionmakers and operators to enable better informed decisions to prevent, prepare for, mitigate, respond to, and recover from a weapon of mass destruction event.

Speaker: Jessica Cox, Lead Chemist and Chemical Threat Characterization Program Manager, DHS, S&T, CSAC

Moderator: Kristin Rubin, Section Chief, Communications and Engagement, Policy, Rulemaking, and Engagement Branch, CISA Chemical Security

1:25 – 1:35 PM

Break

1:35 – 2:35 PM

Session 3: Case Study on Disaster Planning and Preparedness

This session will provide some best practices and lessons learned from first responders and industry regarding engagement with first responders before and during a natural or man-made disaster.

Speaker: Robert Greenberg, CEO, G&H International Services, Inc.

2:35 – 2:55 PM

2021 Chemical Security Seminars Closing Remarks

Speaker: Kelly Murray, Associate Director, CISA Chemical Security