

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY



CHEMICAL SECURITY SEMINARS 2024 PROGRAM

WEEK 1: JULY 11

10:00 AM - 3:00 PM ET

VIRTUAL VIA MICROSOFT TEAMS LIVE

AGENDA

WEEK 1: JULY 11
10:00 AM – 3:00 PM ET

10:00 AM **Opening Remarks**

10:05 AM **Session 1: Keynote Remarks**

10:10 AM **Session 2: State of Chemical Security**

11:10 AM **Session 3: Transnational Threats
Impacting Chemical Security**
(Closed Press)

12:30 PM **30-Minute Break**

1:00 PM **Session 4: Federal Partner Priorities for
Addressing Emerging Chemical Threats**

2:00 PM **Session 5: The Impacts of Artificial
Intelligence on Chemical Security**

3:00 PM **Closing Remarks**

MICROSOFT TEAMS LIVE

TROUBLESHOOTING AND INFORMATION

This year's Seminars are being hosted through a Microsoft Teams live event, which are a bit different from regular Teams meetings.

- If you ask a question in the chat, don't be surprised if you don't see it pop-up right away—the chat moderators may decide to answer it privately, publish it, or hold it to address at a later time.
- If you're having issues connecting, feel free to ask for help in the chat, or email ChemicalSummitReg@hq.dhs.gov. Someone from the Seminars team will try to assist you.

Supported operating systems:

- Windows 7 and later
- macOS X 10.10 and later

Supported mobile operating systems:

- Android 4.4 and later
- iOS 10 and later

Supported web browsers:

- Chrome (last 3 versions)
- Edge RS2 and later
- Firefox (last 3 versions)
- Internet Explorer 11
- Safari

SURVEY — WEEK 1

Your feedback is important to us! The thoughts and insights you provide help us shape the topics, format, and speakers for future Chemical Security Seminars and Summits.

<https://forms.office.com/g/XF2DTLrAZM>

ACRONYMS

AI	Artificial Intelligence	CISA	Cybersecurity and Infrastructure Security Agency
ANSP	Ammonium Nitrate Security Program	DHS	Department of Homeland Security
CBRN	Chemical, Biological, Radiological, Nuclear	DOE	Department of Energy
CESER	Office of Cybersecurity, Energy Security, and Emergency Response	FBI	Federal Bureau of Investigation
CFATS	Chemical Facility Anti-Terrorism Standards	INTERPOL	The International Criminal Police Organization
CIRCIA	Cyber Incident Reporting for Critical Infrastructure Act of 2022	USCG	United States Coast Guard
		TSA	Transportation Security Administration

CISA CHEMICAL SECURITY RESOURCES

On July 28, 2023, Congress allowed the statutory authority for CFATS to expire. Therefore, CISA cannot enforce compliance with the CFATS regulations at this time. To reach us, please contact CFATS@hq.dhs.gov. CISA encourages facilities to maintain security measures. CISA's voluntary program, ChemLock, offers a multitude of resources. See below for more.

CHEMLOCK ON-SITE ASSESSMENTS AND ASSISTANCE

CISA chemical security personnel provide on-site assessments and assistance that can help your facility identify the specific security risks your on-site chemicals present, as well as tailored, scalable suggestions for security measures that will best enhance your facility's security posture based on your unique circumstances and business model. [Learn more about ChemLock On-Site Assessments and Assistance.](#)

CHEMLOCK TRAINING

CISA provides live, on-demand training to assist owners, operators, facility personnel, and retailers learn about the threats that chemicals pose and what security measures can be put in place to reduce the risk of dangerous chemicals being weaponized. [Learn more about ChemLock Training.](#)

CHEMLOCK EXERCISES

Through the ChemLock program, facilities can request CISA's expertise in facilitating a live tabletop exercise that is tailored to your facility and the specific response scenario you want to test. You can also opt to run your own chemical security-focused exercise! CISA Tabletop Exercise Packages (CTEPs) include downloadable resources, like manuals and templates, to help you customize and conduct your own tailored chemical security exercise. Scenarios include active shooter, chemical release, cyberattack, drone threats, insider threat, and more. Learn more about [ChemLock Exercises.](#)

There are many more services, tools, and resources available at no-cost through ChemLock.

 [CHEMLOCK WEBPAGE](#)

 [EMAIL THE CHEMLOCK TEAM](#)

SESSION 1
10:05 - 10:10 AM

KEYNOTE
ADDRESS

ALEJANDRO MAYORKAS
SECRETARY, DEPARTMENT OF
HOMELAND SECURITY



Alejandro Mayorkas was sworn in as Secretary of the Department of Homeland Security by President Biden on February 2, 2021.

A political refugee born in Havana, Cuba, he is the first Latino and immigrant confirmed to serve as Secretary of Homeland Security. He has led a distinguished 30-year career as a law enforcement official and a nationally recognized lawyer in the private sector.

Mayorkas served as the Deputy Secretary of the U.S. Department of Homeland Security from 2013 to 2016, and as the Director of U.S. Citizenship and Immigration Services from 2009 to 2013.

He received his bachelor's degree with distinction from the University of California at Berkeley and a law degree from Loyola Law School.

“...The safety and security of 3,242 high risk chemical facilities across all 50 states, the safety and security of our communities, and the safety and security of the American people are not political bargaining chips. They are not a frivolous use of government resources. Our national security has not been and cannot become a partisan endeavor.”

*— from Secretary Mayorkas' Keynote Address
at the 2023 Chemical Security Summit*

SESSION 2
10:10 - 11:10 AM

STATE OF CHEMICAL SECURITY

KELLY MURRAY
ASSOCIATE DIRECTOR
CISA CHEMICAL SECURITY



Kelly Murray is the Associate Director of Chemical Security at CISA. In this role, she oversees the Agency's efforts to administer the currently lapsed Chemical Facility Anti-Terrorism Standards (CFATS) regulation, the ChemLock program, proposed Ammonium Nitrate Security Program, and numerous international nonproliferation initiatives.

Associate Director Murray has been part of the Chemical Security program since January 2008 where she has served in a variety of roles from program analyst to Compliance Branch Chief before rising to her current role in 2021.

-
- ▶ [Connect with Associate Director Murray on LinkedIn.](#)
 - ▶ [Watch Associate Director Murray's State of Chemical Security session at the 2023 Chemical Security Summit on YouTube.](#)
 - ▶ [Reach out to Associate Director Murray via email.](#)

Closed
Press

SESSION 3: 11:10 AM - 12:30 PM

TRANSNATIONAL THREATS IMPACTING CHEMICAL SECURITY

Threats against critical infrastructure are evolving, and it's more important than ever for those with potentially dangerous chemicals to remain aware and implement strong security practices based on the current threat landscape.

The FBI will be speaking about domestic terrorism in the United States and how domestic terrorist activity impacts critical infrastructure and chemical facilities.

INTERPOL will also provide their insight into international non-state threats facing the chemical industry and discuss chemical specific threats targeting critical infrastructure.

SPEAKERS AND RESOURCES

COUNTERTERRORISM DIVISION—FBI

Read more about the [FBI's counterterrorism efforts](#).

Follow the [FBI on Facebook](#), [FBI on Instagram](#), [FBI on LinkedIn](#), [FBI on X/Twitter](#), and [FBI on YouTube](#).



SCOTT WATSON

CRIMINAL INTELLIGENCE ANALYST
COUNTER TERRORISM DIRECTORATE—INTERPOL

In his role at INTERPOL, Mr. Watson analyzes global chemical and explosive terrorism events and provides intelligence to INTERPOL member countries about emerging trends and threats.



Read about [INTERPOL's chemical and explosive counterterrorism efforts](#).

Follow INTERPOL's chemical/explosives efforts via [INTERPOL on Facebook](#) and [INTERPOL CBRNE on X/Twitter](#).

SESSION 4: 1:00 - 2:00 PM

FEDERAL PARTNER PRIORITIES FOR ADDRESSING EMERGING CHEMICAL THREATS

Domestic violent extremists and foreign adversaries continue to threaten our nation's critical infrastructure. At the same time, advancements in technology and an increase in extreme weather conditions make it essential to prioritize our nation's security. Join Associate Director Kelly Murray as she speaks with CISA Chemical Security's federal partners to discuss how the nation is addressing the emerging threats to the chemical sector and how collaboration amongst these federal partners is key to doing so.

SPEAKERS AND RESOURCES



CAPTAIN ANDREW MEYERS
CHIEF, OFFICE OF PORT & FACILITY COMPLIANCE, USCG

Visit the [Office of Port & Facility Compliance—USCG website](#) to download materials, and keep up with the USCG by following them via [USCG on Facebook](#), [USCG on Instagram](#), [USCG on LinkedIn](#), [USCG on X/Twitter](#), and [USCG on YouTube](#).



TODD KLESSMAN
CIRCIa RULEMAKING TEAM LEAD, CISA

Visit the [CISA CIRCIa webpage](#) to find background information and a variety of fact sheets all about cyber incident reporting requirements. Visit cisa.gov/report, email report@cisa.gov, or call 844-SAY-CISA to share information about unusual cyber activity and/or incidents.



MARA WINN
DEPUTY DIRECTOR, PREPAREDNESS, POLICY AND RISK ANALYSIS
CESER, DOE

The Office of Cybersecurity, Energy Security, and Emergency Response (CESER) has a bounty of information about their mission, partnerships, and priorities on the [CESER website](#). Follow [CESER on X/Twitter](#) and [CESER on LinkedIn](#).



SONYA PROCTOR
ASSISTANT ADMINISTRATOR, SURFACE OPERATIONS, TSA

TSA Surface Operations offers a variety of resources to stakeholders of all types and sizes, including the [Surface Transportation Cybersecurity Toolkit](#). Find these resources on the [TSA Surface Operations website](#).

SESSION 5: 2:00 - 3:00 PM

THE IMPACTS OF ARTIFICIAL INTELLIGENCE ON CHEMICAL SECURITY



DR. SEAN EKINS
FOUNDER AND CEO
COLLABORATIONS PHARMACEUTICALS, INC.

IN CONVERSATION WITH DR. ERIKA BROCKFELD MCCLURE

Artificial intelligence (AI) can be a huge boon for companies that are looking to augment their business models and streamline processes. But this technology can also be used by bad actors for nefarious purposes that could have impacts on global security. A drug-developing AI invented 40,000 potentially lethal molecules that, if misused, could easily be abused and contribute to the creation of a biochemical weapon. Dr. Ekins led the team that did this by simply moving their machine learning model to go towards toxicity, rather than away from it. Tune into this session to learn more about this case study, the potential for bad actors to replicate this process, as well as implications for chemical facilities that may possess dangerous chemicals.

Dr. Sean Ekins is the founder and CEO of Collaborations Pharmaceuticals, Inc., which is focused on using machine learning approaches for rare and neglected disease drug discovery. He has a passion for advancing new technologies for drug discovery and has authored or co-authored more than 350 peer-reviewed papers and edited five books on drug discovery research and the use/misuse of AI.

Sean graduated from the University of Aberdeen, where he received his M.Sc., Ph.D. in Clinical Pharmacology and D.Sc. in Science. In prior roles, he worked as a postdoctoral fellow at Lilly Research Laboratories, a senior scientist at Pfizer and Eli Lilly, and at several startup companies at increasingly senior levels.

RESOURCES

Read about [the dual use of artificial intelligence-powered drug discovery](#)

Visit the [Collaborations Pharmaceuticals website](#)

Connect with [Dr. Ekins on LinkedIn](#)

Follow [Dr. Ekins on X/Twitter](#)

Contact [Dr. Ekins via email](#)

2024 CHEMICAL SECURITY SEMINARS - WEEK 1 SPEAKER BIOGRAPHIES

BROCKFELD MCCLURE, ERIKA

Dr. Erika Brockfeld McClure is a Policy, Rulemaking, and Evaluation Specialist for CISA Chemical Security. She is currently leading the rulemaking initiative for the ANSP. Dr. Brockfeld McClure also advises senior leadership on policy concerns and serves as the methods and evaluation subject matter expert for the program office.



EKINS, SEAN

Dr. Sean Ekins is the founder and CEO of Collaborations Pharmaceuticals, Inc., which is focused on using machine learning approaches for rare and neglected disease drug discovery. [Learn more about Dr. Ekins' research and Collaborations Pharmaceuticals, Inc.](#) or email him at sean@collaborationspharma.com.



HUNZIKER BOYER, ANNIE

Annie Hunziker Boyer is the Policy, Rulemaking, and Engagement Branch Chief for CISA Chemical Security. In this role she oversees the organization's chemical security engagement, communications, and policy initiatives, including its international efforts.



KLESSMAN, TODD

Todd Klessman leads the rulemaking efforts for CISA CIRCIA, a role he has been serving in for more than a year. Mr. Klessman has served in a variety of positions in CISA, including Deputy Associate Director for Chemical Security, Senior Counselor to the CISA Director, and Senior Policy Advisor for the Assistant Director for Infrastructure Security.



MAYORKAS, ALEJANDRO

Alejandro Mayorkas is the Secretary of the Department of Homeland Security, a role he was sworn into by President Biden in 2021. Secretary Mayorkas was previously the Deputy Secretary of Homeland Security from 2013-2016. This is the third Chemical Security Seminar or Summit at which he has given a keynote address.



2024 CHEMICAL SECURITY SEMINARS - WEEK 1 SPEAKER BIOGRAPHIES

MEYERS, CAPT. ANDY

Captain Andy Meyers is the Coast Guard's Chief of Port and Facility Compliance where he oversees programs that advance the safety, security, and environmental stewardship of the nation's ports and facilities. He also leads the Coast Guard's Cyber Risk Management Task Force. Captain Meyers has more than 23 years of service.



MURRAY, KELLY

Kelly Murray is the Associate Director for CISA Chemical Security, where she oversees the Agency's efforts to administer the currently lapsed Chemical Facility Anti-Terrorism Standards (CFATS) regulation, the ChemLock program, proposed Ammonium Nitrate Security Program, and numerous international initiatives.



PROCTOR, SONYA

Sonya Proctor is the Assistant Administrator for TSA Surface Operations, which aligns surface transportation security operations under direct executive leadership to provide the most effective and efficient security solutions for the four modes of land-based transportation: mass transit, freight rail, highway motor carrier, and pipeline.



WATSON, SCOTT

Scott Watson is a Criminal Intelligence Analyst working for the Chemical and Explosive Terrorism Prevention Unit at INTERPOL where he analyzes global and chemical and explosive terrorism events and provides intelligence to INTERPOL member countries about emerging trends and terrorist threats related to chemical and explosive terrorism.



WINN, MARA

Mara Winn is the Deputy Director for the Preparedness, Policy, and Risk Analysis division of the Office of Cybersecurity, Energy Security, and Emergency Response (CESER). In this role, she leads efforts to support energy sector security and resilience through coordination and communication with DOE's government and industry partners.





THANK YOU!

A Note from Associate Director Kelly Murray

Colleagues,

It's an honor to have you joining us for the 2024 Chemical Security Seminars: Week 1. Although we aren't together in person this year, the bright side is being able to host an even wider, more diverse group of stakeholders. Coming together with the common goal of strengthening our global culture of chemical security, this year allows us to connect participants from across the country and around the world. In fact, this year, we've had some of the highest numbers of registration we've ever seen in our 17+ years of hosting Chemical Security events.

After today's sessions, I know that you will walk away with important information for your company or organization. Our team has worked diligently to provide you with content that is relevant, fresh, and useful in helping you enhance chemical security at your facilities and in your communities. I hope that after our final session today, you leave with a keenness to attend next week's sessions, eager for new, completely different content.

Our nation's chemical security remains my top priority, and I know all of you share that strength of purpose and commitment. Thank you for being here this week, and I'll see you again on July 18!

Sincerely,
Kelly Murray
Associate Director, CISA Chemical Security