

Track Summary – Security, Emergency Management, and UAVs

Training Classes – February 19 - 21, 2020

CFATS Overview
Mitigating the Active Assailant
Active Shooter Preparedness
Counter-Improvised Explosive Device
Insider Threat
Pandemic Planning
Part 107 Training
HSE Leadership Excellence: Leadership Training and Buy-in Strategies

Breakout Presentations – Thursday February 20, 2020

Where do Security, Environmental and Safety Overlap? - US EPA
HSE Buy-in: How to Get it, How to Give it, How to Keep It
DHS CISA Stakeholder Engagement Strategy – Regional Service Delivery Model
UAS threat to Critical Infrastructure
DHS CISA Cybersecurity – Protecting Critical Infrastructure
AFPM Security – Regulatory Updates
Conducting a Threat Assessment of Your Facility’s Airspace
RF Based Drone Detection
Observation Without Limits – Sensing Threats Around Your Facility Using Radar
Autonomous Drone Programs – Automating Patrols and Building Autonomous Infrastructure

Breakout Presentations – Friday February 21, 2020

UAV’s for Emergency Response; Being Prepared for the Unthinkable
Field Study Use Cases of FLIR and TDLAS Enabled Drones for Methane and VOC Leak Detection
ICI FLIR and TDLAS Enabled Drone Basics of Capabilities and Functionality
An Operator's Perspective: In-House Tools and UAS for Initial Response (Inland Pipeline Response)
Crisis Response vs. Incident Management
Community Outreach in Emergency Response
Developing Unified Command

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Hilton Downtown – Austin, TX – Thursday February 20, 2020

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Breakout Presentations Room 615 – Thursday February 20, 2020

- **10:00 AM - 10:30 AM**
 - **AFPM Security – UAS Toolkit, Regulatory Advocacy Updates**
 - **Jeff Gunnulfsen, AFPM, Senior Director - Security**
- **10:30 AM – 11:15 AM**
 - **DHS CISA Stakeholder Engagement Strategy – Regional Service Delivery Model**
 - Regional Offices could identify organizations that have not traditionally served as members of CISA-led sectors to further inform risk mitigation solutions by focusing on sector-specific regional issues. The resulting regional-level networks would directly expand CISA's reach into multiple stakeholder segments. Creating a “one-stop shop” at the regional level for issues associated with CISA-led sectors would significantly enhance customer experience. Regional-level collaboration mechanisms (discussion forums, roundtables, and workshops) would enhance knowledge transfer among public and private sector stakeholders through discussions tailored to the regional landscape.
 - **Michael Dailey, Stakeholder Engagement Branch Chief, Region VI**
- **11:15 AM - 12:00 PM**
 - **DHS CISA Cybersecurity – Protecting Critical Infrastructure**
 - Cyber threats collectively now exceed the danger of physical attacks against us. This is a major sea change for Critical Infrastructure and for our country’s security.
 - **George Reeves, DHS CISA R6 Cybersecurity Advisor**
- **12:00 PM - 1:00 PM Lunch Break in the Exhibit Hall**
- **1:00 PM – 1:30 PM**
 - **UAS threat to Critical Infrastructure**
 - After years of close coordination, the Federal Aviation Administration (FAA) and Departments of Defense, Energy, Justice, and Homeland Security (DOD, DOE, DOJ, and DHS) obtained congressional relief in order to test, operate, and evaluate systems that detect and mitigate unmanned aircraft systems (UAS) in the United States. The National Defense Authorization Acts of 2017 and 2018 granted the DOD and DOE counter-UAS (C-UAS) authorities in 2018 the FAA Reauthorization Act provided DHS and DOJ with their authorities. FAA also received authority in the FAA Reauthorization Act of 2018 to employ CUAS, for test and evaluation. The Act became Pub. L. 115-254 and amends Titles 46 (Domestic Security), 14 (United States Coast Guard), and 49 (Transportation) Preventing Emerging Threats Act of 2018 (“the Act”) authorizing the DHS and DOJ to engage in certain C-UAS activities, notwithstanding provisions of Title 18 and Title 49 that prohibit the interception of communications and interference with aircraft. The Act authorizes DHS and DOJ to conduct C-UAS activities against unmanned

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aircraft systems (UAS) that poses a credible threat to the safety or security of a “covered facility or asset,” as defined by the Act.

- **Susan Schneider, Security Programs, Infrastructure Security Division**

- **1:30 PM - 2:30 PM**

- **Counter UAS Strategies: Prevention, Detection, Response**

- A roundtable giving an overview of Counter UAS, Regulatory Framework, Presentation/Response Planning and a Primer on Radar and Radio Frequency Detection Systems Strategies

- **Counter UAS Discussion**

- An introduction into what Counter UAS means, the different components of it as well as the difference between detection and mitigation

- **Prevention:** Doing a Threat Assessment of your Facility’s Airspace

- **Detection:** Various Systems and how to use them

- **Observation Without Limits**

- An introduction in Ground and Aerial Radars

- **Aerial Armor and the Benefits**

- An introduction in RF Based Detection

- **Uzi Ibrahim, 4C Marketplace**

- **Michael Quiroga, Asylon**

- **Michael Lichko, Asylon**

- **2:30 PM – 3:00 PM Break**

- **3:00 PM – 4:00 PM**

- **Autonomous Security Programs**

- **Building Autonomous Infrastructure**

- The Crawl, Walk, Run progression from zero to Autonomous UAVs flying around your facility

- **People**

- Training and Certifications

- **Programs**

- Assigning Roles and Responsibilities

- **Policy**

- Interfacing with the FAA

- **Use Case for Automation**

- An introduction into Autonomous Security Design, and the potential Environmental benefits of Autonomous Infrastructure. Use Cases to be discussed are as follows:

- **Security**

- **Emergency Management**

- **Environmental**

- **Industrial Hygiene and Liability Mitigation**

- **Uzi Ibrahim, 4C Marketplace**

- **Michael Quiroga, Asylon**

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- Michael Lichko, Asylon
- **4:00 PM – 5:00 PM**
 - **CFATS 101 Panel Discussion**
 - CFATS 101 - CFATS is the Nation’s first regulatory program focused specifically on security at high-risk chemical facilities. The Cybersecurity and Infrastructure Security Agency (CISA) manages the CFATS program by working with facilities to ensure they have security measures in place to reduce the risks associated with certain hazardous chemicals, and prevent them from being exploited in a terrorist attack
 - Steven Shedd, DHS Chief Regulatory Compliance
 - Shawn Perceful, DHS Senior chemical Security Inspector
 - Ann Ratliff, DHS Regulatory Analyst

Breakout Presentations Room Other Relevant– Thursday, February 19, 2020

6th Floor Exhibit Hall Stage – Oil & Gas General Session

- **12:30 pm – 1:00 pm HSE Buy-in: How to Get it & How to Give it – Tom Hutchins – Kinder Morgan**
- **4:00 pm – 5:00 pm Leadership & Diversity Panel • HollyFrontier – Sucheta Gokhale • Colorado Research Collaboratory – Maury Dobbie • 4C – Uzi Ibrahim**

Training Classes – Friday February 21, 2020

- **Room 615 8:00 AM – 9:00 AM**
 - **Crisis Management Workshop**
 - Scott McHugh, Director of Global Crisis Management, LyondellBassell
- **Room 615 9:00 AM – 10:00 AM**
 - **CFATS 101 Panel Discussion**
 - **Personnel Surety Program**
 - Understanding Risk-Based Performance Standards (RBPS) 12 – Personnel Surety requires facilities to perform background checks on affected individuals (facility personnel and unescorted visitors) which includes checks to verify:
 - Identity
 - Criminal History
 - Legal Authorization to Work
 - Terrorist Ties
 - Steven Shedd, DHS Chief Regulatory Compliance
 - Shawn Perceful, DHS Senior chemical Security Inspector
 - Ann Ratliff, DHS Regulatory Analyst
- **Room 615 10:00 – 12:00 PM**
 - **ACTIVE ASSAILANT Training - Mitigating the Active Assailant – DHS CISA, Region 6**

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- Active assailant incidents are often unpredictable and evolve quickly. In the midst of the chaos, anyone can play an integral role in mitigating the impacts of an active assailant incident. DHS aims to enhance preparedness through a "whole community" approach by providing products, tools, and resources to help you prepare for and respond to an active assailant incident.
- **Topics Covered:**
 - **Active Shooter Preparedness**
 - **Counter-Improvised Explosive Device**
 - **Insider Threat**
- **Presenters:**
 - **Active Shooter Preparedness (PSA Lee Otten)**
 - **Counter-Improvised Explosive Device (OBP, Doug Delancey)**
 - **Insider Threat (Susan Schneider, Chief, CISA Emerging Threats Branch)**

Emergency Management Breakout Presentations Room 615 – Friday, February 21, 2020

- **12:00 PM - 1:00 PM Lunch**
- **1:00 PM - 1:30 PM**
 - **UAV's for Emergency Response; Being Prepared for the Unthinkable – Refinery Response using UAVs**
 - **Johnathan Morrison, Insight Environmental**
- **1:30 PM - 2:00 PM**
 - **An Operator's Perspective: In-House Tools and UAS for Initial Response (Inland Pipeline Response)**
 - **John Wickersham, Emergency Response Specialist, Colonial Pipeline**
- **Room 615 2:00 – 4:00 PM**
 - **Pandemic Planning**
 - This training is based on the FEMA Pandemic Planning Annex. This training will include the following topics:
 - **Federal Response Overview**
 - **Lessons Learned from Coronavirus Response to Date**
 - **Lessons Learned from Influenza Response**
 - **Lessons Learned in Local, State, and Federal Coordination**
 - **Issue Resolutions when dealing with Hurdles in Emergency Response**
 - **Melissa Moses, FEMA**

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Breakout Presentations Room Other Relevant– Friday, February 21, 2020

Room 616A – Oil & Gas Fugitive Emission Monitoring, Inspection and Detection Technologies

- 08:00 am – 08:30 am Quadcopter Drones, Fixed Wing Drone, Helicopters, or Fixed Wing Plane? – David Furry – Leaks Surveys, Inc
- 08:30 am – 09:00 am Methane Detection using Satellites – Stephane Germain – GHGSat
- 09:00 am – 09:30 am MethaneSAT 2021 Satellite Methane Detection Coming Soon – Tom Ingersol – EDF
- 09:30 am – 10:00 am Break to Enjoy the Exhibit Hall Refreshments
- 10:00 am – 10:30 am Satellite–based Hyperspectral Analysis for Emissions Detection, Integrity Monitoring and Compliance – Peter Weaver & Tushar Prabhakar – Orbital Sidekick
- 10:30 am – 11:00 am Airborne LIDAR Pipeline Inspection Systems – Tim Goolsby – Lasen
- 11:00 am – 11:30 am Autonomous Mobile Methane Monitoring – Brendan Smith – SeekOps
- 11:30 am – 12:00 am Drone Based OGI OOOOa (Quadcopter Drone) – Roy Massengale – Enrud

Training Classes – Saturday February 22, 2020

- Room TBD 9:00 AM – 1:00 PM
 - HSE Leadership Excellence Training
 - Leadership Development within HSE
 - How to achieve Buy-in

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