

HOUSTON COMPLEX COORDINATED TERRORIST ATTACK PROGRAM



EMERGING AND UNEXPECTED THREATS SEMINAR

GUEST SPEAKERS

William J. Byrd, Jr.

**Branch Chief, Counter-IED Information Sharing
DHS Office for Bombing Prevention**

William Byrd has spent 20 years supporting the federal government and the intelligence community. William is currently the Branch Chief for Counter-IED Information Sharing for the DHS Office for Bombing Prevention, part of the newly formed Cybersecurity & Infrastructure Security Agency (CISA).

Previously, William served as a Senior Advisor within the Office of the Director of National Intelligence (ODNI) Partner Engagement Office and just prior to that served on a joint duty assignment as Deputy Group Chief for the Joint Counterterrorism Assessment Team (JCAT) within the National Counterterrorism Center.



At DHS Headquarters, William was the Deputy Director and Senior Intelligence Officer for the Office of Intelligence & Analysis (I&A) Current Intelligence Division, where he was an advocate for state, local, tribal and territorial (SLTT) law enforcement intelligence requirements and led collaborative initiatives on terrorism warning with analysts from across the community.

Also with I&A, William was the Deputy of the Field Analytic Support Taskforce as well as the Branch Chief for the Terrorist Tactics and Targets Branch. As part of the leadership team for the Homeland Counterterrorism Division, he was in charge of a large group of analysts providing analysis on terrorist tactics, techniques and procedures (TTPs) and covering suspicious activity reporting, weapons and explosives, and special events intelligence support.

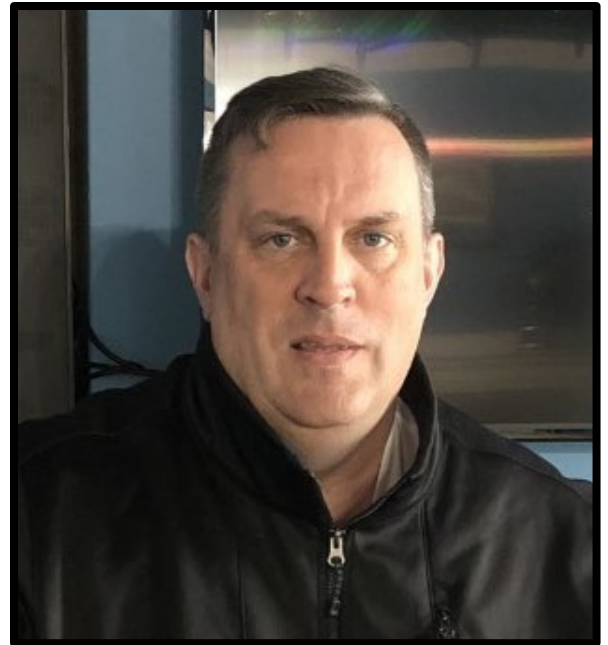
He received his Bachelor's degree from Salisbury University and his Master's degree from Johns Hopkins University.

Fire as a Weapon

Captain Timothy A. Carroll

Field Intelligence Officer
Fire Department of New York

Captain Timothy Carroll, is a 25-year veteran of the Fire Department of New York (FDNY), has been working in the intelligence branch of the FDNY Center for Terrorism and Disaster Preparedness (CTDP) for the past 12 years. As part of Capt. Carroll's duties at CTDP, he serves as a writer, along with other contributors, for the FDNY *Watchline*, an open-source weekly intelligence bulletin for emergency responders.



Tim's contributions as an interagency liaison have vastly extended the Department's outreach with intelligence partners both in the N.Y.C. region and at the federal level. Mr. Carroll has been a member of the departments risk assessment and analysis team for critical infrastructure sites throughout the city. His projects at CTDP include a program to improve the first responder's family preparedness levels as well as the development of a national standard for active shooter response by firefighters. Capt. Carroll is a certified Master Exercise Practitioner (M.E.P.) from FEMA's Emergency Management Institute, who has designed and executed exercises in collaboration with public and private partners of the FDNY, including the N.Y.S. National Guard, Yankee Stadium, Con Edison and the United States Military Academy at West Point. Tim is a Level II (nationally certified) Fire Instructor, and has taught at the FDNY training academy, and the NY State Homeland Security Training Facility at Oriskany.

His teaching style and knowledge has given him the opportunity to present to a diverse audience across the world including the US State Department Diplomatic Security, FBI, US Army War College, London Fire Brigade and many more first responders throughout the country. In Tim's fire service career, one of his most significant accomplishments was when he was asked to be the primary writer for the FDNY's response to active shooter policy. Capt. Carroll worked as a firefighter on the Upper East Side of Manhattan before his promotions. As a first-line supervisor in the field, Tim's assignments mostly include firehouses in the South Bronx and Harlem. Tim resides in Northport, N.Y. with his wife Maura and their five children.

Cyberattacks

Paula S. deWitte, J.D., Ph.D. P.E.
Professor of Practice
Texas A&M University

Paula S. deWitte, J.D., Ph.D., P.E, is an Associate Professor of Practice in the Computer Science and Engineering Department at Texas A&M University, College Station and the Maritime Business Administration Department at Texas A&M University, Galveston where she is building the maritime cybersecurity program.



Paula deWitte is also an Adjunct Professor of Law at the Texas A&M University Law School, Fort Worth. She is a licensed attorney (Texas) and a registered patent attorney (USPTO). She holds a Bachelors and Masters from Purdue University where in 2015 she was honored as the Distinguished Alumna in the Department of Mathematics, School of Science. She obtained her Ph.D. in Computer Science from Texas A&M University (1989) and a law degree from St. Mary's University (2008). She holds a patent on drilling fluids optimization [US Patent US 8812236 B1]. She teaches Cybersecurity Law, Cybersecurity Risk, and Marine Law. Her research interests are in those areas as well as in building resilient systems especially in the supply chain.

Unmanned Aerial Systems and Underwater Autonomous Systems

Zachary Kallenborn

Policy Fellow

Schar School of Policy and Government

Zachary Kallenborn analyzes horrible ways people kill one another: drone swarms, weapons of mass destruction, and apocalyptic terrorism. Officially, Zachary is a Policy Fellow at the Schar School of Policy and Government, a Research Affiliate with the Unconventional Weapons and Technology Division of the National Consortium for the Study of Terrorism and Responses to Terrorism (START), an officially proclaimed U.S. Army "Mad Scientist," and Senior Consultant at ABS Group.



He has published over 40 articles in a wide range of peer-reviewed, wonky, and popular outlets, including the Brookings Institution, Foreign Policy, Slate, War on the Rocks, and Studies in Conflict and Terrorism. Journalists have written about and shared that research in the New York Times, NPR, Forbes, the New Scientist, WIRED, and the BBC, among dozens of others.

For a complete biography, along with publications and presentations, see zkallenborn.com or following him on twitter: [@zkallenborn](https://twitter.com/zkallenborn)

Chemical, Biological and Radiological Terrorist Attacks



Steve S. Sin, Ph.D.

Policy Fellow

Schar School of Policy and Government

Dr. Steve S. Sin is the Director of the Unconventional Weapons and Technology Division (UWT) of the National Consortium for the Study of Terrorism and Responses to Terrorism (START), headquartered at the University of Maryland. He develops, leads, and manages interdisciplinary research projects spanning across a broad range of national and homeland security challenges. His expertise includes countering weapons of mass destruction; emerging technologies and threats;

environment; adversary decision modeling; and Northeast Asia regional security. His expertise in Northeast Asia regional security is focused on North Korea, including its nuclear program; cyber capabilities; intelligence apparatus; and regime survival.

Prior to joining START, Dr. Sin was the Senior Research Associate and Section Chief at the National Center for Security & Preparedness (NCSP) at the State University of New York (SUNY) at Albany, a strategic partner with the New York State Division of Homeland Security & Emergency Services (DHSES). Dr. Sin's extensive experience also includes a career as a U.S. Army Officer. He holds a Ph.D. in political science from the University at Albany (SUNY) and is multilingual in English, Korean, Mandarin Chinese, and Japanese.