



# 2024 IACP Technology Conference Educational Program

*All workshop times are listed in Eastern Time. Schedule subject to change.*

## Advanced Encryption Standards: Necessary and Needed

Tuesday, May 21 | 9:30 AM - 10:30 AM | Track: Operational/Analysis

Encryption is the primary means for protecting the confidentiality and authenticity of public safety land mobile radio (LMR) communications. Agencies using the Data Encryption Standard (DES) as their primary means of encryption risk having sensitive law enforcement, emergency response information and citizen's personally identifiable information accessed by unauthorized criminal actors. Panelists will address the vulnerabilities of continued use of DES, remediation actions, and how to identify funding opportunities to establish Advanced Encryption Standards for Project 25 LMR systems.

- James Downes - Cybersecurity and Infrastructure Security Agency (CISA)
- Alan Massie - Federal Bureau of Investigation (FBI), Operational Technology Division, Field Operations Section
- Stuart Sanz - Arlington County Public Safety Communications and Emergency Management
- John Weatherly - Federal Bureau of Investigation, CJIS Division

## Nefarious Uses of Emerging Technologies: Relationship between Bad Actors and Technology Adoption

Tuesday, May 21 | 9:30 AM - 10:30 AM | Track: Emerging Issues

This training session consists of an overview of the Bureau of Justice Assistance SLATT Program and the nefarious uses of emerging technologies and understanding the relationship between bad actors and technology adoption. The presentation is suitable for law enforcement leaders grappling with how to effectively address the adoption and use of new and emerging technologies by individuals seeking to circumvent or gain advantage over law enforcement efforts within their jurisdictions. Presenters will highlight six key topics and understand the threats posed by new and emerging technologies.

- Sarah Chervenak - Institute for Intergovernmental Research (IIR)
- David P. Lewis - Law Enforcement Division, Bureau of Justice Assistance
- Steven Sin – START

## No Code, No Problem: Analysts Don't Need to Learn to Code, They Just Need ChatGPT

Tuesday, May 21 | 9:30 AM - 10:30 AM | Track: Technical

Unlock the full potential of your analytical toolkit, whether it includes Excel, PowerBI, ArcPro, Access, Tableau, i2, or other tools. This presentation will guide attendees in leveraging ChatGPT to enhance analytics. Regardless of technical proficiency, every participant will leave having generated custom code to use with their preferred tools to streamline various analytical tasks. More crucially, attendees will gain insights into optimizing ChatGPT as a potent force multiplier within analysis units. Elevate your analytical prowess without the coding learning curve; ChatGPT is now your personal developer.

- Amanda K. Bruner - CNA Corporation
- Charley Giberti - Research Innovations Incorporated

## Technology Facilitated Elder Fraud – Using the Law Enforcement Cyber Center and Other Resources

Tuesday, May 21 | 9:30 AM - 10:30 AM | Track: Emerging Issues

Elder fraud is a growing problem. With perpetrators often overseas, and criminals taking advantage of technology like artificial intelligence, synthetic content, and cryptocurrency, these crimes are increasingly complex. Learn about common scams and the importance of collaboration and information-sharing between agencies. Find out how technologies are being used by perpetrators, resources to help investigations, and how to educate potential victims. Panelists will share available tools and training for the field led in partnership with the IACP, such as the Law Enforcement Cyber Center.

- Cristina Fernandez - International Association of Chiefs of Police
- James Foley - National White Collar Crime Center (NW3C)
- Jeff Lybarger - National White Collar Crime Center (NW3C)

## GUIDES: A New Smartphone App for Police-Prosecutor Data Sharing

Tuesday, May 21 | 11:00 AM - 12:00 PM | Track: Technical

Police and prosecutors in Long Beach, California, needed a data sharing tool to combat crime, while also making it easier to assist people in need of mental health, substance abuse, and shelter services. The new GUIDES app, developed through U.S. Department of Justice grant funding, is a smartphone application now used to accomplish these goals and more. The GUIDES app is also being used to screen and refer individuals to Long Beach's Law Enforcement-Assisted Diversion (LEAD) program and improve collaboration between public safety partners and local non-profit organizations.

- Byron Bolton - Long Beach City Prosecutor's Office
- Doug Haubert - City of Long Beach
- James Young - Long Beach Prosecutor's Office

## Interoperability of Biometric Systems

Tuesday, May 21 | 11:00 AM - 12:00 PM | Track: Operational/Analysis

Interoperability of biometric systems allows biometric repositories to "talk" to each other in an automated fashion. This effectively creates one larger system that can seamlessly share information according to law, policy, and business rules. The Biometric Triad constitutes the three biometric repositories of the U.S. Departments of Homeland Security, Justice, and Defense. Interoperability serves as an identity force multiplier, augmenting the value of biometrics as a crucial investigative tool for federal, state, local, tribal, and territorial law enforcement.

- Charity Harris - Federal Bureau of Investigation (FBI) Criminal Justice Information Services (CJIS) Division
- Alicia Harrison - Department of Homeland Security (DHS) Office of Biometric Identify Management (OBIM)
- Michael C. Klesius - Department of Homeland Security (DHS) Office of Biometric Identity Management (OBIM)

## Reaping the Benefits of Training Technology in a Post-Pandemic Era

Tuesday, May 21 | 11:00 AM - 12:00 PM | Track: Executive

Training demands for agencies are often fraught with challenges. Agencies must strike a balance in consideration of resources, capacity, and cost for training needs. Learn how technology can be leveraged to engage learners simultaneously with evidence-based, quality, interactive, and scenario-driven content that meets the needs of the modern era. Panelists will share tips and lessons learned in building effective curricula using technology to provide no-cost, POST-compatible course content and resources on contemporary topics through Elevate Blue, an IACP virtual training suite.

- Eric W. Drifmeyer - International Association of Chiefs of Police

## The Rise of Generative AI and LLMs: Building a ChatGPT for the European Law Enforcement Community

Tuesday, May 21 | 11:00 AM - 12:00 PM | Track: Emerging Issues

Generative AI and Large Language Models (LLM), such as ChatGPT, are the most disruptive technologies to have emerged over the last 10 years. After exploring the initial impact of LLMs on the work of police, the Europol Innovation Lab (EIL) is now actively looking at ways to leverage LLM technology to build a ChatGPT for the LEA community. Case studies range from using LLMs to extract relevant information from large volumes of data for strategic analysis, to supporting investigators by acting as co-pilot during live investigations and dialogue with the LLM to maximize information available.

- J  r  my Kesp  te - Europol
- Oscar Wijsman - Netherlands Police

## Artificial Intelligence and You: Guidance for Mid- and Small-Size Agencies

Tuesday, May 21 | 1:00 PM - 2:00 PM | Track: Executive

Law enforcement agencies, including small- and mid-sized ones, need to better understand artificial intelligence (AI) use. Recent advances in AI have focused national and international attention use and public trust. As data systems increasingly digitize, commercially available solutions applying AI are used to make them more effective and efficient. In some cases, agencies find they are using AI without even knowing it. This session explores the advantages and challenges of AI for agencies of all sizes, assists leaders in identifying AI use, and offers some AI management tools.

- Keith Kelly - Athens-Clarke County Police Department
- Jonathan Lewin - INTERPOL Washington, U.S. National Central Bureau, U.S. Department of Justice
- Donald R. Zoufal - CrowZ Nest Consulting, Inc./Illinois Association of Chiefs of Police

## Combating Cybercrime – The Brazilian Federal Police Perspective

Tuesday, May 21 | 1:00 PM - 2:00 PM | Track: Operational/Analysis

The objective of the presentation is to report on the way in which the Brazilian Federal Police was structured to combat cybercrimes, indicating the main pillars to base the search for excellence. Brazilian Federal Police went through a profound reformulation of their structure, which will be highlighted during this presentation, along with the current status of cybercrime in Brazil.

- Otavio Russo - Brazilian Federal Police

## Facial Examination Training – Keeping the Tool in the Investigation Toolbox

Tuesday, May 21 | 1:00 PM - 2:00 PM | Track: Emerging Issues

Emerging technologies and a first-rate training program supporting those technologies are a must for law enforcement. Unfortunately, the ability for police to utilize Facial Recognition (FR) technologies has been inhibited by the negative public perception that FR Systems imply. Investigations following the horrific activities surrounding January 6th, 2021, and other high-profile events, have magnified the value of FR technology. To keep this valuable tool in the criminal investigation toolbox, proper and comprehensive training of FR end users is essential for police.

- Caleb Garcia - Maryland-National Capital Park Police
- Steven L. Johnson - Organization of Scientific Area Committees (OSAC) for Forensic Science
- Lora S. Sims - Ideal Innovations, Inc.

## How to Operationalize Secure, Interoperable Messaging without Dependence on Risky Consumer Apps

Tuesday, May 21 | 1:00 PM - 2:00 PM | Track: Technical

Collaboration is a buzzword in almost every industry because these tools are transforming communications by sharing efficiently and reducing information overload. So why isn't collaboration the buzzword in public safety? Police have adopted text-based messaging without any of the protocols used for deploying all other tools like ConOps and SOPs. Learn how a major metropolitan area has adopted collaboration technology to replace SMS and risky consumer messaging apps. Panelists will discuss how they have achieved seamless information sharing and the resulting operational outcomes.

- Eric Baker - Texas Department of Public Safety
- James Barnett - Houston Police Department
- Bryan Buccini - Harris County Sheriff's Office
- Niki Papazoglakis - Mobility 4 Public Safety

## AI Use and Guardrails: International Collaboration for Law Enforcement

Tuesday, May 21 | 2:30 PM - 3:30 PM | Track: Emerging Issues

Law enforcement is enhancing capabilities with advanced AI-based technologies to address modern crime. While the intended use is primarily for critical investigations and general welfare, unintentional failures can lead to a loss of reputation. The Royal Canadian Mounted Police (RCMP) and NuEnergy.ai recognize that global collaboration is in the best interest of law enforcement for a fast-moving technology like AI. Presenters are pursuing best practices to help secure continued access to AI-led tools through governance, establishing AI guardrails, promoting transparency, and monitoring public trust.

- Irakli Beridze - UNICRI, United Nations
- Nitish Bhardwaj - NuEnergy.ai
- Niraj Bhargava - NuEnergy.ai
- Paul Boudreau - Royal Canadian Mounted Police

## Beyond the Pings: Decoding Digital Trails in Modern-Day Law Enforcement Investigations

Tuesday, May 21 | 2:30 PM - 3:30 PM | Track: Operational/Analysis

Going beyond theoretical knowledge, this presentation offers practical examples demonstrating the New York State Police Cellular Analysis Response Team's (CART) tangible impact and pivotal role in leveraging cellular data analysis, digital forensics, cutting-edge investigative techniques, and collaborative partnerships to enhance capabilities during investigations. As police navigate the era of technological advancements, learn actionable strategies to improve investigative capabilities. Attendees will hear how to unlock the power of cellular data and reshape the future of law enforcement.

- Sarah Laranjo - New York State Police, Intelligence & Analysis Unit
- Samuel Lizzio - New York State Police, Cellular Analysis Response Team

## Community-Driven Real-Time Crime Centers

Tuesday, May 21 | 2:30 PM - 3:30 PM | Track: Executive

Real-time crime centers (RTCC) have become valuable tools in enhancing public safety and crime prevention. However, in order to truly serve the needs of citizens, these centers must be community-driven. By actively involving and empowering community members, RTCCs can ensure a more accurate, comprehensive understanding of local crime dynamics, expand the reach of their RTCC, and foster trust between police and the public. This approach is instrumental in tailoring crime prevention strategies, building safe neighborhoods, and promoting a shared responsibility in combating crime.

- Amy Gauldin - Winston-Salem Police Department
- Matthew Greathouse - Lexington Police Department

- Darin Hull - Cobb County Police Department
- Mark Wood, Lieutenant-Executive Officer, Indianapolis Metropolitan Police Department (IMPD) – Fusus

## Drones in Law Enforcement: Oklahoma City Police Department's Patrol-Led Deployment Model

Tuesday, May 21 | 2:30 PM - 3:30 PM | Track: Technical

Law enforcement agencies are developing specialized drone units that respond to a request from patrol, however they are often delayed as the pilots are not in a patrol division. Oklahoma City Police Department (OKCPD) has implemented a drone program in which patrol officers are equipped with drones for rapid response to calls in-progress, in a method known as patrol-led deployment. An advanced and effective unmanned aerial system program in law enforcement, OKCPD is paving the way for other agencies to build drone programs at scale, gain actionable insights from aerial intelligence, and increase safety for first responders and the communities they serve.

- Jason Bussert - Oklahoma City Police Department
- Dax Laporte - Oklahoma City Police Department

## Shielding Your Digital Privacy to Protect Your Physical Safety

Tuesday, May 21 | 2:30 PM - 3:30 PM | Track: Emerging Issues

Responding to an incident should never involve worrying that someone might compromise your privacy and identify, embarrass, or target you, your family, or your department. A picture can disclose a home address, 10 seconds of a voice can allow AI to develop a convincing audio fake, and a data breach can be a detriment to employment. This session will discuss how AI and big data are changing digital privacy and the actions attendees can take today to ensure safety – on- and offline – in the future. Learn how to control what is harvested and protect your department, your family, and yourself.

- Jodi Masters-Gonzales, Chair, Digital Exhaust Threats & Mitigation Cross Sector Council, InfraGard - Humble Science LLC
- Stacey Wright, CISSP, Cyber Security Working Group co-chair, CCDE & LEIT member, NSA Cybercrime Working Group member – CyberWA

## Cryptocurrency – Technology and Tools for a Successful Investigation

Wednesday, May 22 | 8:00 AM - 9:00 AM | Track: Emerging Issues

Criminals are using cryptocurrency to finance illegal operations, as well as stealing the life savings of vulnerable victims. Cryptocurrency has reached every type of law enforcement investigation, from gangs to human trafficking to fraud. Police agencies must obtain the technology needed to trace, freeze, and seize cryptocurrency accounts. Attendees will leave this presentation understanding the different tracing technologies and tools available, as well as how these technologies can be used to enhance investigations and disrupt crimes before they occur.

- Dave Berry - REACT Task Force
- Tanaya Rose - REACT Task Force
- Erin West - REACT Task Force

## Mobility First: Pushing Information to the Edge Improves Operations and Officer Safety

Wednesday, May 22 | 8:00 AM - 9:00 AM | Track: Technical

"Information to the edge" is a transformative concept that is dramatically improving outcomes in public safety operations and increasing officer safety. Actual use cases and lessons learned from a large state patrol and large sheriff's office will be shared. The presentation will cover harnessing real-time data effectively, seamlessly integrating smartphones to empower officers, developing public/private video partnerships, coordinating field assets with a free government application, ensuring two-way benefit of information to and from the edge, synergizing a real-time crime center to maximize effectiveness, and policy considerations.



- Eric Baker - Texas Department of Public Safety
- Dave Ellis - Spokane County Sheriff's Office/Spokane Valley Police
- Keith Redlin - Samsung US
- Dale Stockton - Carlsbad (CA) Police Department

## Modernizing Identity: Exploring the World of Mobile Driver's Licenses (mDLs) – Are You Ready?

Wednesday, May 22 | 8:00 AM - 9:00 AM | Track: Emerging Issues

The mobile driver's license (mDL) is the future of licensing and proof of identity. These “digital” driver licenses or ID cards are provisioned to mobile devices allowing citizens to share the minimal amount of data needed for a transaction. The mDL gives officers the most up-to-date and reliable information, ensuring they have the data they need. Several agencies have already implemented mDLs, and collaboration is occurring worldwide to implement this technology. Learn how law enforcement can leverage this technology to enhance efficiency, security, and accuracy in identity verification.

- Lori Daigle - State of Colorado Drivers Services
- Scot Haug, Chief of Police - Post Falls Police Department
- Tim Roufa - Florida Highway Patrol

## Responding to Hurricane Ian, Florida's Deadliest Hurricane: Drones and Communications Technology

Wednesday, May 22 | 8:00 AM - 9:00 AM | Track: Operational/Analysis

Hurricane Ian (September 2022) caused catastrophic loss of life and damage, particularly on hard-to-reach barrier islands. Drones provided livestreaming for mission mapping, asset deployment (open roadways), and searches for trapped people, home security, beached vessels, and hazardous materials. Communications were maintained by prepositioning equipment, quick response teams using floating mobile hotspots and Compact Rapid Deployables, and technology developed in collaboration with law enforcement to withstand major weather events.

- Robert Dooley - Florida Highway Patrol
- Rich Gatanis - Southern Manatee Fire Rescue
- Harry Markley - FirstNet Authority
- Fred Scalera - FirstNet Built with AT&T

## Revitalizing CompStat for Modern Policing

Wednesday, May 22 | 8:00 AM - 9:00 AM | Track: Executive

CompStat started in the 90s, but much has changed for police over the last 30 years. Departments use more data than ever – RMS/CAD systems, BWC footage, ALPR – posing new challenges. An effective CompStat meeting needs timely and accurate information. Static maps and stale crime statistics are commonplace but insufficient for leaders to understand crime trends, implement strategies, and empower officers, investigators, and analysts to execute. Presenters will teach attendees how to revitalize CompStat meetings for the 21st century and get the most from real-time data.

- Randy Goddard - Los Angeles Police Department
- Maya Jacobs - Peregrine
- Leonard Nerbetski - Peregrine
- Nick Sanders - Albuquerque Police Department

## CJIS Security Policy Modernization 5.9.3 and Beyond: What it Means to Your Agency

Wednesday, May 22 | 9:45 AM - 10:45 AM | Track: Emerging Issues

This presentation will cover CJIS Security Policy Modernization changes, impacts, and the way forward to address sweeping change of security control groups. Presenters will discuss CJIS Security Policy 5.9.3, both impact analysis and recommendations. Perspectives will be shared

from IACP, IJIS Institute, FBI CJIS Division, law enforcement executives, industry leaders, and state practitioners.

- James J. Emerson (USMC Ret.) - National White Collar Crime Center (NW3C)
- Charlie S. Schaeffer - Microsoft Corporation
- David M. Shipley - CISC/LInX RM (Colorado Information Sharing Consortium)
- John Weatherly - Federal Bureau of Investigation, CJIS Division

## Criminal Responses to Law Enforcement Technologies

Wednesday, May 22 | 9:45 AM - 10:45 AM | Track: Emerging Issues

The Homeland Security Investigations (HSI) Forensic Laboratory will discuss its experiences with how criminals have responded to emerging law enforcement technologies to conceal their identities or create new ones. Topics discussed will include intentional alteration of fingerprints to defeat automated fingerprint checks, counterfeiting of identification documents incorporating readable barcodes and chips, photo morphing to circumvent facial recognition verifications in identity documents, and digital alteration of identity documents for electronic submissions without physical verification.

- Carl Lichvarcik - HSI Forensic Laboratory
- Elaine Wooton - HSI Forensic Laboratory

## Delivering Cyber Excellence: An Introduction to the DoD Cyber Crime Center – DC3

Wednesday, May 22 | 9:45 AM - 10:45 AM | Track: Operational/Analysis

The executive director of the Department of Defense (DoD) Cyber Crime Center (DC3) will discuss innovative and unique cybersecurity (CS) capabilities and offerings, the newest cybersecurity trends, innovative cyberattack threat deterrence, and key insights on today's most challenging CS issues. As a Federal Cyber Center, DC3 provides innovative capabilities and expertise to enable and inform key stakeholders. DC3 offers integrated services such as training, digital and multimedia forensics, vulnerability disclosure, CS support to the Defense Industrial Base, analysis and ops enablement, and advanced technical solutions.

- Joshua Cole - Department of Defense Cyber Crime Center
- Jude Sunderbruch - Department of Defense Cyber Crime Center

## The Digital Witness: Using Digital Witnesses to Identify and Prosecute Offenders

Wednesday, May 22 | 9:45 AM - 10:45 AM | Track: Operational/Analysis

The Denver District Attorney's Office relies on digital witnesses to identify, arrest, and prosecute offenders. Presenters will highlight identification, corroboration, and use at trial to hold offenders accountable limiting victim testimony. The presentation will also address the impact of trauma on survivors, and how digital witnesses are utilized to combat those challenges in the investigative and prosecutorial process. Presenters will demonstrate why the use of the digital witness is a promising and necessary practice for law enforcement in building criminal cases.

- Chris Gray - Denver District Attorney's Office
- Jacob Huffine - Denver Police Department

## Transforming the Victim Journey with Humberside Police, UK

Wednesday, May 22 | 9:45 AM - 10:45 AM | Track: Executive

As forces struggle with increased demand and fewer resources, the Humberside Police, United Kingdom, has worked with Salesforce to transform the victim journey and improve satisfaction, reduce failure demand, and make it easier for officers to perform their duties. Now, victims and citizens can be proactively and automatically updated on their channel of choice in a humanized and personalized way. From contact to closure, victims and members of the public contacting police forces will receive automatic updates with key information, case progression, and resources including victim services and witness care.

- Paul Anderson - Humberside Police
- Andy Doran - Salesforce
- Sabih Khan - Salesforce
- Chris Philpott - Humberside Police

## A Monk, a Cop, and a Marine – Diverse Perspectives on the Use of Artificial Intelligence

Wednesday, May 22 | 11:30 AM - 12:30 PM | Track: Executive

This presentation will explore the implications of integration and use of artificial intelligence (AI) within law enforcement technology and practices. This panel will examine current and future use of AI from the optics of policy, ethics, and operations. Spirited discussion will seek to understand existing presence and use, the basis for developing trust, and the need for guardrails.

- James J. Emerson (USMC Ret.) - National White Collar Crime Center (NW3C)
- Jan Fuller - Redmond Police Department
- George Perera - Miami-Dade Police Department
- Venerable Tenzin Priyadarshi - Dalai Lama Center for Ethics and Transformative Values, Massachusetts Institute of Technology

## Drowning in Data: Strategies for Successful Data Migration to Cloud Storage

Wednesday, May 22 | 11:30 AM - 12:30 PM | Track: Technical

As digital data grows exponentially, police agencies are looking toward the cloud to effectively manage the multitude of Digital assets. In making that move, what does an agency do with their legacy data that has already been created? How does historical investigative data remain secure, searchable, and accessible? This presentation will highlight the Seattle Police Department's Bureau of Justice Assistance (BJA) grant-funded effort to transfer over two petabytes of data from a legacy Digital Evidence Management System (DEMS) and in-car video system into a cloud-based DEMS platform.

- Brandon Epstein - Medex Forensics
- Bertram C. Lyons - Medex Forensics
- Geoffrey Smith - CNA
- Jesus R. Valenzuela - Seattle Police Department

## Improving Homicide Investigations through Digitization, Machine Learning, and Advanced Statistics

Wednesday, May 22 | 11:30 AM - 12:30 PM | Track: Operational/Analysis

This presentation explains how the Los Angeles, California, Police Department (LAPD), the FBI, and researchers at Justice & Security Strategies (JSS) and the University of California, Los Angeles (UCLA) digitized and analyzed "Murder Books" (homicide case files) to improve case clearances. Over 4,000 homicide investigations have been optically scanned and researchers have developed machine learning techniques to improve solvability. Explanations of digitization, machine learning, and advanced statistical techniques will be discussed. Findings and policy implications will be presented.

- Jeff Brantingham - University of California, Los Angeles
- Craig D. Uchida - Justice & Security Strategies, Inc.

## Infrastructure-Free Real-Time Crime Centers (RTCCs) for Rapid Response and Investigations

Wednesday, May 22 | 11:30 AM - 12:30 PM | Track: Operational/Analysis

Real-time crime centers (RTCC) are increasingly popular for cities enhancing emergency response and investigations. RTCCs integrate technologies like live-streaming cameras, license plate readers, gunshot detection, and drones, providing unprecedented situational awareness. However, a physical RTCC is not viable for every city. In this session, presenters will explore the



concept of an infrastructure-free RTCC using a robust, open software platform, transforming agencies of any size to address emergencies and solve complex crimes.

- Garrett Langley - Flock Safety
- Ricky Pinksaw - Emporia Police Department
- Christopher Settle - Town of Culpeper Police Department
- Dalton Webb, Retired Sergeant (Fort Worth Police Department) - Flock Safety

## Teaching Youth about Online Safety with TraffickSTOP

Wednesday, May 22 | 11:30 AM - 12:30 PM | Track: Emerging Issues

With reliance on technology growing, youth are increasingly targeted by perpetrators online. Teaching youth about online safety can raise awareness of crimes perpetrated online and in turn help youth protect themselves. This session will show participants how to teach students about online grooming and how perpetrators target youth for crimes such as human trafficking and sexual exploitation. The presenters will demonstrate how to talk with students about setting healthy boundaries and protecting their identities, using parts of NW3C's TraffickSTOP curriculum developed with the IACP.

- Laura Cook - National White Collar Crime Center (NW3C)
- Jeff Lybarger - National White Collar Crime Center (NW3C)
- Moe McClanahan - National White Collar Crime Center (NW3C)

## A Journey through the Deepfake Landscape – Unmasking Threats and Building Defenses

Wednesday, May 22 | 1:30 PM - 2:30 PM | Track: Emerging Issues

This presentation introduces deepfakes, how they are generated, and methods for detection. Presenters will examine different types of deepfakes and analyze their dual-use potential for responsible applications and disinformation, including real-world incidents. Speakers will also how they developed a deepfake detection tool in collaboration with journalists and intelligence analysts. They will share insights from their research and user interviews highlight the need for usable and effective countermeasures to address the challenges posed by deepfakes.

- Brandon Epstein - Medex Forensics
- Saniat J. Sohrawardi - Rochester Institute of Technology
- Y. Kelly Wu - Rochester Institute of Technology

## Cyber Security Hygiene: A Roadmap for Maturing Your Cyber Security Program

Wednesday, May 22 | 1:30 PM - 2:30 PM | Track: Technical

The rapidly changing nature of cyber security hygiene makes it difficult to build a cyber security program from scratch. Fortunately, there are frameworks filled with guidelines and best practices to improve cyber security risk management and help agencies adhere to various rules and regulations. This session will help attendees understand the considerations in choosing between the Cyber Security Framework (CSF), ISO 27001, and NIST 800.53; how to get started, knock out "low hanging fruit," and implement free resources; while simultaneously planning how to achieve everything else.

- Spring-Eve See - Mark43
- Stacey Wright, CISSP, Cyber Security Working Group co-chair, CCDE & LEIT member, NSA Cybercrime Working Group member - CyberWA
- Larry Zorio, III - IJIS Cybersecurity Working Group and Mark43

## Finding the Needle in the Haystack – Extracting Ballistic Evidence from Firearms, Casings, and Bullets

Wednesday, May 22 | 1:30 PM - 2:30 PM | Track: Executive

NIBIN and eTrace are the gold standard for analyzing spent shell casings and crime guns, but there is more to the story. Technological advancements in ballistics and forensics allow

investigators using crime gun intelligence to gather evidence from both the inside and outside of the firearm; the spent shell casings, and now, even the bullets can be examined for evidence. By applying all the tenets of crime gun intelligence and by using all available resources, the crime gun, spent casing, and expended round can yield evidence and leads connecting criminal offenders with shootings.

- Alex Eastman - Dallas Police Department
- Ray Guidetti - Hackensack Police Department
- Dean M. Kueter, Jr. - Brooks Bawden Moore
- Robert C. Troyer - District of Colorado

## Neurotechnology Innovations that Promote Officer Health and Wellness

Wednesday, May 22 | 1:30 PM - 2:30 PM | Track: Emerging Issues

Officers are exposed to significant work-related stressors, which increase their risk for stress-related physical and mental health conditions. Mindfulness meditation may improve human resilience, but requires sustained, focused attention, which can be challenging to master. Recent research suggests that mindfulness meditation may be more accessible and effective by integrating mindfulness training with brain-sensing wearable devices. This presentation discusses the latest evidence and future approaches to neurofeedback-mediated mindfulness training for law enforcement.

- Heather Rusch - U.S. Department of Justice
- Shaun L. Ward - Charlotte-Mecklenburg Police Department

## Using Vehicle Histories and License Plate Readers as Tools to Reduce Local and Violent Crimes

Wednesday, May 22 | 1:30 PM - 2:30 PM | Track: Operational/Analysis

There is a need to use more technology to monitor traffic based on the increased use of highways when it comes to drugs and human trafficking. The placement of license plate readers (LPR) is not just for the borders and major highways, but is also imperative for roadways through smaller and rural communities. Monitoring LPRs is just the beginning – the next phase includes the use of analytics; sharing information with other agencies on the federal, state, local levels; and collaboration with fusion centers, intelligence centers, and local real-time crime centers (RTCC).

- Eric Durante - U.S. Drug Enforcement Agency, Phoenix
- David P. Lewis - Law Enforcement Division, Bureau of Justice Assistance
- James Sheehan - Northern NJ-Jersey City/Newark UASI

## “NYPD Street View” An Augmented Reality Smartphone Application for Enhanced Situational Awareness

Wednesday, May 22 | 3:15 PM - 4:15 PM | Track: Operational/Analysis

The Augmented Reality (AR) Application provides real-time access to pre-existing data in a rapid, user-friendly manner. This first-of-its-kind application provides enhanced situational awareness, as well as improved public safety outcomes, allowing users all relevant data points to make informed decisions. Geospatial data is presented in an AR setting, allowing users to interact with it through the device camera. It is relevant for any agency, large or small, and provides awareness like never before on a user-friendly platform for a generation of officers raised on smart phone technology.

- Krista Ashbery - New York Police Department
- Charles Minch - New York Police Department
- Andrey Vishnevskiy - New York Police Department

## ATF's Automated Solutions for Combatting Firearm Violence

Wednesday, May 22 | 3:15 PM - 4:15 PM | Track: Technical

Maximize Crime Gun Intelligence and expedite identification and arrest of criminal shooters and firearms traffickers by automating eTrace and NESS – the Bureau of Alcohol, Tobacco, Firearms, and Explosives (ATF) web-based investigative tools that tell the story of a crime gun. Learn how to tailor an existing case management system to connect seamlessly with ATF's Firearms Tracing System (submission and retrieval) through the new eTrace DIRECT API. Connect with NESS+ RMS to automatically import shooting and gun recovery data into NESS, which is overlaid with NIBIN leads to provide near real-time intel on interrelated violent firearm crimes.

- Edward Stely - Bureau of Alcohol, Tobacco, Firearms, and Explosives
- Christie Weidner - Bureau of Alcohol, Tobacco, Firearms, and Explosives

## Building a Common Operating Picture from the PSAP to the Field

Wednesday, May 22 | 3:15 PM - 4:15 PM | Track: Emerging Issues

The next wave of innovation extends Next Generation 911 (NG911) into the field, equipping law enforcement teams of all sizes with situational awareness, location accuracy, and critical incident details that inform safer, effective, and faster response. Building a common operating picture is essential as NG911 facilitates accelerated access to relevant information through critical application integrations. Join thought leaders from RapidDeploy, Kansas 911 Coordinating Council, Critical Response Group, and Skyline to learn how video and data integrations are advancing NG911 solutions.

- Troy Briggs - Haskell County Sheriff
- Tom Burgoon - Skyline Technology Solutions
- Steven Raucher - RapidDeploy
- Mike Rodgers - Critical Response Group, Inc.

## New Technologies to Address School Communications Challenges

Wednesday, May 22 | 3:15 PM - 4:15 PM | Track: Operational/Analysis

Police departments and local schools are using technology to improve school safety, communications, and response time. In a growing number of states, Alyssa's Law is requiring adoption of panic alarms that are directly connected to 911. One example of this technology is a panic button worn on a lanyard. Schools and their buses are also using integrated push-to-talk, cameras, and GPS tracking. Other communities are establishing Mobile 911 Answering Points to handle calls during critical incidents to address lessons learned from past school shootings. During this presentation, agencies will share their experiences with this technology.

- Paul Hildreth - Fulton County Schools
- Harry Markley - FirstNet Authority
- Jason Stoddard - Charles County Public Schools

## Recognizing and Combating Technology-Facilitated Abuse

Wednesday, May 22 | 3:15 PM - 4:15 PM | Track: Emerging Issues

Technology-facilitated abuse is a threat or act of violence amplified by using information and communication technologies or digital media. With the integration of technology into daily lives, perpetrators have unprecedented access to victims via digital tools to intrude, harass, and intimidate. An unbiased approach encourages victim reporting and increases the likelihood that perpetrators are held accountable. Law enforcement and victim services experts will share trauma-informed strategies and practical skills to enhance responses to victims of gender-based violence.

- Jesenia Alonso - International Association of Chiefs of Police

## Bridging that Trust Gap Using AI Analytics and Community Policing: The Greensboro Police Department Approach

Thursday, May 23 | 9:45 AM - 10:45 AM | Track: Technical

In 2022, Greensboro Police Department embarked on a journey aimed at increasing the sense of trust and safety among residents. Using a multifaceted approach of AI survey analytics and community policing to engage residents, they began measuring safety perception, transparency,

and district-specific priorities. This session explores translating and deploying actionable outcomes from the data for all levels, from officers to leadership, community engagement teams, and residents themselves, to bridge the gaps between community priorities and agency focus.

- Jenny Caviness - Greensboro Police Department
- Eyal Halamish - Zencity
- John Thompson - Greensboro Police Department

## Internet of Things (IoT) – Rethinking Officer Safety and Evidence Collection in a Digital World

Thursday, May 23 | 9:45 AM - 10:45 AM | Track: Emerging Issues

Law enforcement often encounter Internet of Things (IoT) devices, like doorbell cameras, security cameras, and virtual home assistants. Various routines can create an officer safety or evidence destruction possibilities. Attendees will receive guidance on recognizing common IoT devices, possible hazards, and types of evidence that may be found. Attendees will be introduced to a simulated “smart home” to show possible capabilities of IoT devices. Due to advancing technology, proper training and updates to existing policies may be needed for officer safety and the acquisition of digital evidence.

- Isaac VJ Strickland - U.S. Department of Homeland Security, FLETC/CYD

## Minutes Matter: Using Free Tools to Automate Intelligence Products

Thursday, May 23 | 9:45 AM - 10:45 AM | Track: Operational/Analysis

This presentation focuses on using free tools to automate common law enforcement intelligence products and serves as a case study on the transformative power of automation from the Blacksburg Police Department (BPD). While working with analysts from a federal grant program, BPD has been able to integrate disparate RMS and CAD systems from multiple surrounding agencies into one system and automate the creation of offender workups, address workups, and link charts using nothing more than tools available in Microsoft Office. Using these tools, BPD has transitioned to a regional intelligence analysis hub.

- Amanda K. Bruner - CNA Corporation
- Courtney Corriere - Blacksburg Police Department
- Charley Giberti - Research Innovations Incorporated

## Policy to Performance: Virtual De-escalation Training to Meet Growing Mandates

Thursday, May 23 | 9:45 AM - 10:45 AM | Track: Emerging Issues

Mandates for law enforcement de-escalation training are growing rapidly along with recognition and development of best practices related to both emotional self-regulation and community interaction. However, there is often not always clear definitions of subject matter, much less agreement on how to implement it. Training is the translation of policy to performance. In a world of rapidly changing requirements, this presentation will cover the design of actionable virtual training, starting with curriculum assessment and concluding with course certification, to provide an engaging and affordable training experience for officers.

- Timothy Bonadies - Real Training Systems
- Mark Maidens, Sr. - Police Training Institute/Champaign County Sheriff's Office
- Kimberley A. McClure - Western Illinois University
- Donald R. Zoufal - CrowZ Nest Consulting, Inc./Illinois Association of Chiefs of Police

## Walk, Run, then Fly: How DNA and Genetic Genealogy is Transforming 21st Century Crimefighting

Thursday, May 23 | 9:45 AM – 10:45 AM | Track: Emerging Issues

In 2018, the public and law enforcement community witnessed the power and impact of Forensic Investigative Genetic Genealogy (FIGG). After eluding law enforcement for 30 years, Joseph DeAngelo, also known as the Golden State Killer, was arrested and prosecuted in California. Five

years later, more than a thousand cases have seen resolution with FIGG, but more needs to be done and police leaders play a critical role. This session will cover a few high-profile criminal cases solved using FIGG and walk through the strategy of making forensic DNA work for law enforcement.

- Stephen Kramer - Federal Bureau of Investigation (Retired)
- Ed O'Carroll - Fairfax County Police Department

## 7 Steps to Launch a Successful Drone as First Responders (DFR) Program

Thursday, May 23 | 11:30 AM - 12:30 PM | Track: Operational/Analysis

Hear firsthand how law enforcement agencies have successfully launched drone programs. Presenters will share how drone software can provide end-to-end support for any agency's unmanned aerial system (UAS) program. Whether a drone novice or scaling operational capabilities to drone as first responder (DFR) and remote-piloting, attendees hear from experts what it takes to succeed.

- Abrem Ayana - Brookhaven Police Department
- Barry Brennan - Flying Lion
- Rob McDonnell - Motorola Solutions
- Norm Serrano - Motorola Solutions
- Dave Wilson - Motorola Solutions

## Artificial Intelligence for Officer Wellness and Early Supervisor Assistance

Thursday, May 23 | 11:30 AM - 12:30 PM | Track: Emerging Issues

As law enforcement agencies become increasingly reliant on technology, the intersection of artificial intelligence (AI) and officer wellness presents a groundbreaking opportunity. This session delves into the innovative use of AI to support mental wellness among officers, while acknowledging prevalent concerns about the use of AI. Recognizing the unique stressors and trauma faced by law enforcement personnel, presenters will examine ways agencies can leverage data from diverse sources including computer-aided dispatch, records management systems, internal affairs, complaints, and other department databases.

- Andy Henricksen - PowerDMS by NEOGOV
- J.T. Hoar - Fall River Police Department

## Enhancing Public Safety by Submitting Arrest Fingerprint Records through Mobile Livescan Technology

Thursday, May 23 | 11:30 AM - 12:30 PM | Track: Technical

This presentation will demonstrate the benefits of field-based, mobile, electronic fingerprint collection to enhance public safety, including implementation of this technology, how to deploy, the immediate benefits to investigations, and lessons learned. Speakers will highlight the emerging technology of iris scanning as a biometrics technology and its capabilities as an investigative tool. Attendees will be provided an implementation roadmap, learn about technology and infrastructure support, and understand how to use wireless technology to support the program.

- Daven Byrd - Arizona Department of Public Safety
- Joseph Skoczen - Arizona Department of Public Safety
- Melanie Veilleux - Arizona Department of Public Safety

## Integrating Communications Systems for Broader Reach and Interoperability

Thursday, May 23 | 11:30 AM - 12:30 PM | Track: Operational/Analysis

The growing practice of integrating land mobile radio (LMR) systems with LTE is creating direct connections where they did not easily exist. This integration allows for tying together of talk



groups and creating interoperability talk groups with schools, fire, volunteer fire, EMS, and more. Previously this would require expensive investments in radios for all parties. Presenters will share how states are integrating systems into statewide talk groups that can include rural agencies, highlighting a recent test with school resource officers using radios and LTE devices, which indicated LTE devices were preferred.

- Rob Dehnert - City of West Des Moines
- Harry Markley - FirstNet Authority
- Jason Sandholdt - Marion County

## Unlocking Potential: IT Leaders' Guide to Crafting Data Strategies for Mission Outcomes

Thursday, May 23 | 11:30 AM - 12:30 PM | Track: Executive

Modern technology, including the cloud, AI/ML, and mobile devices, promised to improve decision making, emergency response, citizen-engagement, and crime prevention. However, building an IT and data strategy that takes advantage of modern technology while integrating into the mission of public safety can be complicated. Legacy systems, siloed data sets, and a disconnect between operations and IT can hinder the promises that modern technology provides. This panel will include leadership perspectives on developing actionable strategies to employ data and technology to improve the mission of public safety.

- Kent Augustine - New Mexico Department of Public Safety
- Dave Fontneau - Orange County Sheriff's Office
- Matthew Melton - Amazon Web Services
- Vanetta Pledger - City of Alexandria

## Cybercrimes: There Is Nothing Virtual About the Trauma

Thursday, May 23 | 1:30 PM - 2:30 PM | Track: Emerging Issues

Cybercrimes are advancing rapidly and present unique challenges for officers and professional staff. Exposure to compromising, humiliating images of victims or the obliteration of a lifetime of savings for older adults can produce a sense of hopelessness, placing officers and professional staff at an increased psychological risk due to chronic exposure. Law enforcement and victim services experts will share approaches for implementing trauma-informed strategies to mitigate the effects of vicarious trauma, ultimately contributing to the wellbeing of staff and the communities they serve.

- Jesenia Alonso - International Association of Chiefs of Police

## Department-Wide Mobile Device Deployment: Planning and Implementation Tips for Success

Thursday, May 23 | 1:30 PM - 2:30 PM | Track: Technical

This presentation will discuss a mid-sized law enforcement agency's successful department-wide mobile device deployment. Planning will be discussed as it pertains to obtaining funding as well as community buy-in. Device management and compliance will be addressed with regards to CJIS and public records requests, including the issues related to the B.Y.O.D. (Bring Your Own Device) model. Presenters will share the benefits of providing every officer with a department issued mobile device, as well as available features and resources.

- Mathew Post - Chicopee, MA, Police Department
- Eric Watson - Chicopee, MA, Police Department

## Reimagining your Information Technology Budget Towards Innovation and Modernization

Thursday, May 23 | 1:30 PM - 2:30 PM | Track: Operational/Analysis

Is your organization stymied by the need to modernize your technology, but lacking budgetary flexibility? Attendees will hear how the Los Angeles, California, Police Department overhauled their IT operations and found new solutions while remaining within the confines of a no-growth

budget. In this session, attendees will learn the importance and benefit of managing public funding effectively, how to leverage modern IT solutions to maintain and improve organizational accountability, and ways to promote efforts within the community to build collaborative relationships.

- Jens Back - Motorola Solutions
- Robert Bean - Los Angeles Police Department
- Rob McDonnell - Motorola Solutions
- John McMahon - Los Angeles Police Department

## Using AI to Reduce Crime and Mitigate Bias

Thursday, May 23 | 1:30 PM - 2:30 PM | Track: Operational/Analysis

Explore the complexities of AI in police patrol management, tackling key pain points, such as ensuring data integrity, maintaining tactical relevance, and respecting civil liberties. This presentation will delve into the potential to use AI to boost operational efficiency while steadfastly upholding legal and ethical standards. Designed to empower law enforcement professionals, the session will also provide attendees with a set of objective criteria for choosing the most suitable police patrol management tool for their agency.

- Renée Mitchell - Axon Enterprise, Inc.
- Simen Oestmo - SoundThinking, Inc.
- Duncan Purves - University of Florida

## Analyzation of Use of Force Incidents through a Review Unit

Thursday, May 23 | 2:45 PM - 3:45 PM | Track: Executive

Police agencies have one thing in common: use-of-force incidents. It is vital to understand all the elements of these types of incidents. One way to account for these elements is to develop a review unit specifically addressing them during their review process. The best way to demonstrate the effectiveness of a review is to delve into an actual use-of-force incident and show how a review unit can be more beneficial than standard review processes.

- Thomas Goshen - Cook County Sheriff's Office
- Jason McCall - Cook County Sheriff's Office

## Artificial Intelligence Bulletin Ingestion and Distribution System

Thursday, May 23 | 2:45 PM - 3:45 PM | Track: Emerging Issues

With hundreds of email bulletins produced daily, manual management and awareness is impossible. Artificial Intelligence Bulletin Ingestion and Distribution System (AIBIDS) is the answer. AIBIDS automates the process by receiving various bulletins, then, using AI including post-image processing, AIBIDS will analyze and extract pertinent metadata from pictures and narratives to make the information searchable. After analysis, AIBIDS standardizes the format of thousands of different bulletins into a singular format for upload into HSN or other LEA or CJIS-compliant commercial platforms.

- Ryan Barnett - Vetted Holdings LLC
- John H. Rinker - Finder Software Solutions

## Prepare Your Staff for the Transition to NG911

Thursday, May 23 | 2:45 PM - 3:45 PM | Track: Operational/Analysis

The shift to Next Generation 911 (NG911) will provide emergency telecommunicators with accurate location data and real-time multimedia to coordinate effective responses in their communities. Agencies are wrestling with how to make a seamless transition, including providing training for expanding and supporting new call handling and dispatch processes. This presentation will discuss tips for managing an NG911 transition through the lens of preparing frontline communicators. Finally, hear how the Ottawa Police Service is planning its transition, training staff, and mitigating the risks to employee mental health.

- Stephen Bond - Ottawa Police Service

- Emily Carter - Merritt Group
- Rohan Galloway-Dawkins - Versaterm

## Ransomware, Extortionware, and Your Department

Thursday, May 23 | 2:45 PM - 3:45 PM | Track: Technical

Public safety agencies are common ransomware and extortionware targets, resulting in corrupted evidence, dismissed cases, endangered victims, embarrassing emails going public, and the loss of a community's trust in the police. This panel discussion between experts in ransomware targeting of public safety agencies will go beyond the current headlines to analyze non-public cases and withheld details to reveal developing trends in the sector. Presenters will discuss the most effective prevention and mitigation techniques specific to the public safety sector.

- Tyler Brodbeck, U.S Army Intelligence Officer - Public Safety Threat Alliance & Motorola Solutions
- Jennifer Gold, President NY Metro InfraGard, co-founder National Artificial Intelligence & Cybersecurity ISAO, U.S. Marine Corps Cyber Auxiliary member - Apollo Information Systems
- Stacey Wright, CISSP, Cyber Security Working Group co-chair, CCDE & LEIT member, NSA Cybercrime Working Group member – CyberWA

## Rapid DNA – Moving at the Speed of your Investigation

Thursday, May 23 | 2:45 PM - 3:45 PM | Track: Operational/Analysis

The faster DNA results are available, the more useful they are to investigators to help them generate actionable leads. Rapid DNA accelerates DNA processing to less than two hours, improving upon a months-long process. Beyond using Rapid DNA results for quicker and more efficient investigations, Rapid DNA can be used at booking to identify repeat offenders—keeping rapists, murderers, and other violent criminals behind bars and off the streets. Rapid DNA can also help identify victims of mass casualty events such as the Camp Fire, Conception Boat Fire, and the Maui Fires, bringing closure to families.

- Dean M. Kueter, Jr. - Brooks Bawden Moore
- Brandon Pannone - Lee County Sheriff's Office
- Karen Sadoway - Edmonton Police Service
- Charlie S. Schaeffer - Microsoft Corporation