



## Conference Speaker and workshop List

### Keynote Presentations:

## Collection at a Mass Crime Scene: A Look at the Pulse Nightclub Tragedy

*On June 12, 2016, a mass shooting and hostage situation took place at the Pulse Nightclub in Orlando, Florida. Leaving at least 49 people dead and injuring more than 50 others, it is the deadliest mass shooting in U.S. history. Join Detective Ed Michael of the Orlando Police Department, who was part of the initial SWAT response and pivotal in leading the after-action collection and processing of the over 350 digital evidence items from the scene as he discusses: The steps to take to locate and process evidence in a complex crime or disaster scene; How to utilize teams, resources and tools to accelerate the investigation; and Ways to process large data sets of cellphone evidence to quickly locate relevant data while the situation is still unfolding.*

**-Presented by**

**-Ed Michael, Orlando P.D.**

**-Special Agent Lynn Billings, FBI Evidence Response Team Leader**

## Maasland Homicide Investigation

*This case presentation will outline the multi-discipline forensic investigation of Todd Howley for the murder of Paul Maasland.*

**-Presented by Superintendent Guy Faucher, OPP.**

## **Presentations & Workshops:**

# **Death Investigation in Ontario**

*This presentation will provide an overview of new initiatives into death investigations as well as an update on Opioid related deaths.*

**-Presented by Dr. Dirk Huyer, Chief Coroner of Ontario.**

# **Criminal Dismemberment: The Psychology of the Offender**

*This presentation will discuss the academic literature and case reviews involving the dismemberment of victims.*

**-Presented by Dr. Peter Collins.**

# **3D Documentation of Clandestine Graves**

*This presentation compares traditional manual methods of documenting a clandestine grave with new 3D Digital methods.*

**-Presented by Tori Berezowski, research project from the University of Toronto.**

# **Utilizing 3D Laser Scanning From Crime Scene to Courtroom**

*This presentation will cover general system operating principles, scene deployment and case examples.*

**-Presented by Greg Schofield, TPS.**

# Acute Stress Disorder, Cumulative Stress Disorder and the Forensic Identification Specialist

*This presentation will cover the nature of stress in Forensic work, its impact on both the emotional and physical health. Current research on prevention will also be discussed.*

**-Presented by Dr. Peter Collins**

# Canadian Armed Forces - Rapid Deployment Forensic Capabilities

*Review of CAF capabilities and how it may assist other agencies.*

**-Presented by KP McNamara**

# Provincial Strategy Tech Symposium

*Computer forensic technical sessions – full day session day two.*

**-Presented by S/Sgt Sharon Hanlon, OPP**

# Leveraging AI in Forensic Investigations

*How can machine learning and artificial intelligence be leverage in digital forensics investigations to help narrow results and find relevant information more quickly? From Child Exploitation, Hate Crimes, Harassment, and Terrorism, AI can be used to identify important text and images across large datasets pulled from computers and mobile phones. Jamie McQuaid, Forensics Consultant at Magnet Forensics, will discuss the value of machine learning and the best way to implement this technology into your investigative workflow.*

**-Presented by Jamie McQuaid**

# Mobile Challenges, Past, Present and Future of device investigations

*As manufacturers continue to improve device security and encryption, we ask: Where will the most valuable data reside? What can you do to both acquire and analyze it effectively? This session discusses the past, present, and future of mobile investigations and explains how these trends may shape your investigations. In particular, we will explore alternative acquisition methods and will de-mystify mobile forensic acquisition tools and techniques so that you will be better equipped to get more value from your toolset.*

**-Presented by Jamie McQuaid**

# Driving your investigations forward with vehicle and mobile phone forensics

*Most motor vehicle owners (and renters) synch their mobile phones to their vehicles. Together, these devices and systems hold an abundance of valuable digital evidence for investigators. Learn about the basics of vehicle forensics and what data can be retrieved from a car's infotainment and telematics systems. See how you can bring the digital evidence into a single analysis platform to quickly analyze it, plot connections by time-line and map GPS coordinates. You'll learn that vehicle systems can often let you access data in cases where encryption blocks access to data on mobile phones. Learn techniques that are not commonly known to investigators and forensic examiners. The presenter will also talk about the future of investigation as it relates to vehicle and cell phone forensics.*

**-Presented by Steele Haye and Mica Sadler**

# Biology from Crime Scene to Lab

*This workshop will highlight and discuss the impacts and interdependencies of police and laboratory procedures on recovery, submission and testing of evidence.*

**-Presented by Fran Muller and John Wilson, CFS.**

# Making the Invisible Visible: The use of Infrared Light in the search for Blood Evidence

*This workshop will present the use of handheld portable infrared light sources including hands-on practical exercises.*

**-Presented by Kristina Kovarik, CFS Biology.**

# Swabbing items for submission to CFS

## Biology

*This workshop will focus on when to swab vs. when to submit the evidence unexamined as well as steps to optimize recovery of DNA while minimise contamination.*

**-Presented by Wendy Lalonde, CFS Biology.**

## Mass Casualty Management

*This presentation will discuss the procedures and equipment developed by Ottawa Police Service to direct the management of mass casualty events.*

**-Presented by Sgt. Chris Kiez and Sgt Sam Roberts, OPS**

## Effective Sequence for Fingerprint Detection and Touch DNA

*This presentation will discuss how to effectively utilize non-destructive fingerprint detection methods to increase the success of subsequent DNA testing.*

**-Presented by Brian Dalrymple.**

# Footwear Impression Enhancement for Analysis Purposes

*This live demonstration will feature how to use the “subtraction” enhancement for removal of substrate interference.*

**-Presented by Jill Smith & D/Cst. Jason Goodfellow, YRP.**

# Narrow Band Filter for Fingerprint Enhancement

*This presentation will discuss the use of a new narrow band filter that can be used with both lasers and banded light sources to optimize fingerprints.*

**-Presented by Brian Dalrymple**

# Foundations of Fire Scene Investigations

*This presentation will provide the foundations information on fire scene examination to allow officers to determine if and when the Fire Marshal Office should be called. Topics include fire chemistry, analyzing patterns, area of origin and ignition sources.*

**-Presented by Thomas Hoppe, OFM.**

# Use of Liquid Latex for Debris Removal

*This presentation will discuss the feasibility of using liquid latex to remove debris and contaminants from vehicles to facilitate the recovery of latent impressions.*

**-Presented by Michael HO, UTM and D/Cst. Mathew George, YRP**

# Recovery of Human Remains

*This presentation will review and update the optimal methods and equipment used in the forensic recovery of human remains.*

**-Presented by– Drew Groves, Bryce MacLean and Rob Vingerhoets – DRPS & YRP**

# 3D Tools for Bullet Trajectory and BSPA

*This workshop will showcase the utilization of 3D technology in the analysis of shooting scene and bloodstain pattern reconstruction.*

**-Presented by Eugene Liscio.**