

2017 IACA International Symposium

DRAFT PROGRAM OF SPEAKERS & PRESENTERS

(subject to change)

V3. dated April 20, 2017



KEYNOTE SPEAKERS

Dr. Laura Huey

Associate Professor of Sociology at the University of Western Ontario and Director of the Canadian Society of Evidence Based Policing (CAN-SEBP)

Dr. Laura Huey is the Director of the Canadian Society of Evidence Based Policing and Professor of Sociology at the University of Western Ontario. She is also a Senior Research Fellow with the Police Foundation, a member of the Board of SERENE-RISC, a Senior Researcher with the Canadian Network for Research on Terrorism, Security and Society and a Research Fellow for the London Police Service. She also sits on the Ontario Association of Chiefs of Police Crime Prevention Committee, the Canadian Association of Police Governance Research & Policy Committee, and the Board of the Canadian Association of Police Educators.

'Not Everything That Can Be Counted Counts' Why Good Data is Imperative in Evidence Based Policing

Dr. Huey's talk begins with a brief overview of the principles of evidence based policing, before moving on to a presentation of some of the old, new and emergent research-based tools and resources available to crime analysts. Dr. Huey will then talk more specifically about the work of the Canadian Society of Evidence Based Policing and the recent launch of the Good Data Initiative – a multi-year project aimed at generating discussion and development of best practices in data collection, retention, use and sharing. Drawing on both the relevant research literature, and on her own experiences of trying to work with 'no data' and 'bad data', Dr. Huey will highlight why generating, keeping, using and sharing 'good data' is a critically important public safety issue, and how we can collectively begin to address major deficits in these areas.

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Dion McArthur

President of Business Watch International Inc.

Dion McArthur, has been working with law enforcement, dealing with property crimes for nearly 24 years. His experience and in-depth understanding of the law enforcement industry, acquired through long-standing and close relationships with the Regina Police Service, have allowed him to participate in the development of strategies and products to combat crime. Mr. McArthur is also the past president of the Regina Crime Stoppers Program and served on the board for seven years developing innovative ways of revolutionizing the program.

Since 1998, Mr. McArthur has been the President of Business Watch International Inc., Regina, Saskatchewan (BWI). As the founder of a startup operation, Mr. McArthur was responsible for product development, marketing and corporate communications. In addition to communicating client requirements to the development team and ensuring that the final product met expectations, he personally trained police officers and analysts on the use of the system. His active involvement in many jurisdictions' efforts to realize automated reporting ordinances and legislation, and co-presenting with many police departments to various city councils and committees, he helped pave the way for automated reporting for pawn, second hand and scrap metal dealers in North America.

Before BWI, there was no automated reporting of pawn, second hand and scrap metal transactions in North America, so he had to develop innovative ways of using computer systems for these investigations. He has worked on every type of crime from thefts from homes to homicide investigations.

Mr. McArthur to this day spends most of his time talking with police officers and crime analysts doing trainings and assisting with investigations. He knows that property crimes are like a pebble in the pond. So many crimes spin off of property crimes, that there is a need to bring this information to others that maybe have not worked property crime investigations before. He particularly likes working with crime analysts to help them identify trends and larger sets of criminal activity.

The Power of Pawn Data

Abstract to follow

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Robert Haas

Retired Police Commissioner, City of Cambridge, Massachusetts

Robert C. Haas recently retired as the Police Commissioner for the City of Cambridge, Massachusetts where he served in that capacity since April 2007. During his tenure with Cambridge Police Department, Haas explored various approaches in moving from what would have been considered a reactive consumer of analytical products to thinking about ways of offsetting future social harms through analytical “forecasting methods.” He was particularly interested in learning how analytics could play a role in offsetting future social harm in the broader context of social justice, and initiated a research project along with two other adjacent city police agencies. He also worked on the development of internal benchmarking of police performance across various social justice issues, and became less-reliant on the conventional methods in which most police agencies measure successes through crime reduction.

Prior to his appointment as Police Commissioner, Haas was appointed by the Governor of Massachusetts to initially serve as the Undersecretary for Law Enforcement and then as the Secretary of Public Safety. Haas had administrative oversight for eighteen state-level public safety agencies and thirty-eight boards and commissions. Some of the agencies for which he was responsible, included the Massachusetts State Police, Department of Fire Services, National Guard, Department of Corrections, Sex Offender Registry Board, Board of Parole, Massachusetts Emergency Management Agency, Criminal Justice Information System, just to name a few. He was also designated as the Governor’s Homeland Security Advisor. While serving in that role, Haas was responsible for developing the Commonwealth’s first Homeland Security Strategy and the establishment of the Commonwealth Fusion Center. Much of work with the Fusion Center and Boston’s Regional Intelligence Center (BRIC) involved making the distinction between roles of crime analysts and intelligence analysts, and development of analytical products that were made available to broad audience of consumers in the public and private sectors.

Leading up to his appointment to the Governor’s Cabinet, Haas had served as the Chief of Police for Westwood, Massachusetts for twelve years. In the early 1990’s, Haas formed partnerships with researchers from the University of Cincinnati and Rutgers University to develop analytical tools designed identify the most prolific individuals and locations within a given community. This tool was deployed to forty police departments in Massachusetts for evaluative purposes. Prior to coming to Massachusetts, Haas began his policing career in Morris Township, New Jersey where he rose through the ranks from patrol officer to lieutenant.

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Haas received a bachelor's degree from William Paterson College, a master's degree in Criminal Justice Administration from Rutgers University, and completed the course requirements for the Law, Policy & Society Doctorial program at Northeastern University. He has continued his work in policing, serving in a consulting role for a variety police agencies across the country.

Thinking Beyond Criminal Analytics

Over the last few decades, crime analysis has made great strides both in terms of scope and sophistication. Over time it has taken on a form of art and science, and with time, science has taken on greater prominence. It has moved from a place of providing analytical products that tended to be more retrospective to a place where analysts are doing some amazing work relative to predictive analysis. We have gone through a period of time where crime analysis was looking at historical trends and attempting to apply those patterns and trends in predicting future tendency. We are exposed to social threats that encompass national and international implications, making even more imperative that we change our modality and how we think about how to incorporate analytics into everything that we do.

Meanwhile, policing has been undergoing its own sociological challenges. Although many of us are experiencing downward trends in conventional crime, we now are faced more than ever in terms of intervening and/or preventing certain threats before they can materialize. Despite those reductions in crime in our most devastated neighborhoods, we have also witnessed growing resentment among those who we have sworn to protect. In large part, it has more to do with us continuing to use outdated and traditional approaches in policing, showing little distinction between those who are causing the greatest social harm and those who have been victims of those harms. We have seen many of the social systems that are designed to protect and serve the most vulnerable in our communities failing. As these systems become overwhelmed and underfunded, the police are expected to deal with these social issues. And yet, the police have not been able to change its modality in how it addressed those social issues.

We are at a place in time when it is imperative that we think differently concerning how we leverage data and develop analytical product that adequately address a wide range of social issues. With these new challenges comes innovative ways of how we think about our approaches, which largely is dependent upon on how we use analytical products. Much of what we are talking about here is predicting human behavior and predicting trends among a wide range of population groups. The advantage is looking at how the private sector has made great strides in marketing and financial projections, all of which is reliant upon futuristic

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tendencies and patterns of human behavior. Are there opportunities where we are able to begin to integrate those tools in how we refine those analytics in forecasting trends and then develop unique approaches in offsetting future social harm? Are there opportunities where we collectively move from a place of social protection to one of social justice?

The discussion will hopefully adequately describe the current state of affairs, and how we find ourselves with unique opportunities where analytics plays such a pivotal role in that transformation. We will explore some of the emerging trends in analytics beyond criminogenic analytics to one that encompasses a broader range of human behaviors in which the police are now expected to address.

Nola Joyce

Retired Deputy Commissioner of Organizational Services, Strategy, and Innovation, Philadelphia Police Department

Nola Joyce has over thirty years of leadership experience in public safety agencies at the state and local levels. She retired from the Philadelphia Police Department in 2016 as Deputy Commissioner of Organizational Services, Strategy, and Innovation. She was the first civilian deputy commissioner for the police department. Throughout her career she led major organizational change efforts using research and analysis to advance public policy and the use of technology to improve program impacts. She is now a private contractor working with police departments, cities, and the federal government helping organizations increase their performance levels through strategic innovation.

Prior to working with the Philadelphia Police Department, Ms. Joyce worked at the Washington, D.C.'s Metropolitan Police Department as a Senior Executive Director leading Organizational Development and was promoted to the Chief Administrative Officer. She also worked for the Chicago Police Department as Deputy Director of Research and Development and for the Illinois Department of Corrections as Manager for Budget, Research and Planning.

She is a co-founder and faculty member of the Major Cities Chiefs' Executive Police Leadership Institute. Ms. Joyce is an Adjunct Faculty member of Temple University's Criminal Justice Department. She guided the development and operation of the Philadelphia Police Department's Real Time Crime Center and the Delaware Valley Intelligence Center and greatly increased the department's analytical capability. She built program models in Philadelphia, Washington, D.C., and Chicago that brought the police, city services, and the community

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together to work on chronic crime and disorder problems. Many of these efforts are acknowledged as best practices in the field.

Ms. Joyce was appointed to the National Academy of Science's Panel on Modernizing the Nation's Crime Statistics. She is also an advisor to the American Law Institute's Principles of the Law, Police Investigations Project. Ms. Joyce is an Executive Fellow with the Police Foundation, a member of the International Association of Chiefs of Police (IACP) Research Advisory Council and the Police Executive Research Forum's Research Council. She received the Gary P. Hayes award from the Police Executive Research Forum and the IACP/Sprint Award for Excellence in Law Enforcement Research.

Ms. Joyce holds three master's degrees, including a M.S. in Homeland Defense and Security from the Naval Postgraduate School and completed course work toward a Doctor of Philosophy in Criminal Justice at Temple University.

Current and Future Demands for Analytics in Policing

Abstract to follow

Dr. Margo Watt

Professor of Psychology at St. Francis Xavier University

Dr. Watt is a Clinical Forensic Psychologist. She is director of the Forensic Psychology Program at St. Francis Xavier University, adjunct professor at both Dalhousie and Acadia Universities, and Honourary Research Associate at the University of New Brunswick (UNB). She also is a member of the IWK's Youth Forensic Research team and the Centre for Criminal Justice Studies.

Dr. Watt has conducted forensic risk assessments, complex mental health assessments, and clinical direction of mental health services for the Correctional Service of Canada (CSC) for the past 20+ years. Her research interests include: the assessment and prediction of risk; personality characteristics of specific types of offenders (e.g., women offenders); and stress among correctional staff. Among her publications is a book entitled: *Explorations in Forensic Psychology: Cases in Criminal and Abnormal Behaviour*, from which her presentation is derived.

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Criminal Behaviour Cases in Canada (Black Widow and Russell Williams)

Abstract to follow

Robert Aboumitri

Criminal Intelligence Analysis Manager, Royal Canadian Mounted Police

Robert Aboumitri is a Criminal Intelligence Analysis Manager with the Royal Canadian Mounted Police (RCMP), he is currently in charge of the Greater Toronto Area (GTA) North Criminal Analysis Section which consists of a serious and organized crime analytical support team, and a team specializing in communications data analysis. During the last fifteen years, Robert has supported numerous investigations and is regularly consulted as a subject matter expert in the field of communications data analysis.

In 2007, in recognition of his expertise, Robert was seconded to the United Nations to assist in a major international investigation. At the end of his assignment, he took a position with a major international tribunal (based in The Netherlands) as the head of an analytical team of Criminal Intelligence Analysts specializing in communications data analysis

In 2014, Robert was declared an expert in "the analysis and interpretation of cellular communications and data, and the analysis and interpretation of cellular telephone records as it relates to the location and movement of cellular devices in conjunction with cellular communication transmission towers" by the Supreme Court of Nova Scotia.

Robert is currently leading a team responsible for introducing and implementing innovative ideas and solutions to further operations and enhance productivity in "O" Division .

Robert is the recipient of several medals and awards including; an Operational Service Medal, a Queen's Diamond Jubilee Medal, and a Commissioner's Commendation for Outstanding Service.

Leveraging Data to Inform and Advance Investigations

Frequent present day usage of mobile devices turns them into 'trackers' in the hands of their users. These devices keep and provide specifics about many aspects of their user's life. They adopt the lifestyle of their user; they are his/her unique 'digital print'.

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In-depth specialized communications data analysis can reveal significant information that may be impossible to obtain using other methods or sources. Communications data analysis considerably increases the success rate of all investigations.

This presentation will detail several techniques that can be applied to analyse and interpret communications data. It will also highlight several methods to effectively illustrate, visualise, and present the resulting analytical findings.

PRESENTERS

Matthew Robinson

Royal Canadian Mounted Police

Matt Robinson has been a RCMP Criminal Intelligence Analyst for nearly ten years. During this time he has enjoyed specializing in a variety of cutting edge methods and technologies that have enhanced traditional analytical capabilities, including Risk Terrain Modeling and Cell Site Analysis. This expertise enabled him to apply analytical techniques to complex problems ranging from border security to homicide and missing person investigations. Matt believes that new areas of opportunity are continually expanding, thereby enabling the analyst to contribute to law enforcement agencies in new ways that were not possible only a few years ago. He currently works for the RCMP in Washington DC and lives with his family in Virginia.

Case Studies using Risk Terrain Modelling

Risk Terrain Modeling is crime analysis tool developed by the Rutgers Center on Public Security to improve anticipatory accuracy over traditional 'hot spot' methodologies. This improvement is achieved by looking at both statistics and specific criminogenic features within the environment. The effectiveness of this approach will be demonstrated by looking at actual case studies involving border security and auto theft.

The Contribution of Cell Site Analysis to Criminal Intelligence

Matt will present on his personal experiences using Cell Site Analysis to help solve missing persons and homicide cases in both the United States and Canada. Some of these prosecutions were significantly aided by analysing phone data that had been sitting for years in some cases. Cell Site Analysis, when used prudently along with other pieces of evidence, can make a significant contribution to criminal intelligence.

Dr. Brian Kelly

Assistant Professor, Department of Security Systems and Law Enforcement Technology at Farmingdale State College, State University of New York (SUNY)

Dr. Brian Kelly is an Assistant Professor within the Department of Security Systems and Law Enforcement Technology at Farmingdale State College, State University of New York (SUNY). As a full time tenure track faculty member possessing 13 years experience in higher education, he instructs hundreds of students in Crime Analysis and Crime Mapping, as well as

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Criminal Justice Database Operations. Brian is a retired law enforcement officer from the state of New Jersey, who previously implemented and utilized crime mapping as a gang investigator for New Jersey's largest county jail. He also remains current in the field as a Licensed Private Detective, Certified Fraud Examiner, and a guest lecturer for anti-fraud curriculum and seminars in the New York region of the Association of Certified Fraud Examiners. Dr. Kelly is an active member of various professional and academic organizations, including the IACA.

The Influence of GIS-based Curriculum in Higher Education: A Multiple-Case Study of Academic Trends

The purpose of the multiple case study will examine purposefully selected academic departments within various universities which maintain course curriculum encompassing crime analysis and crime mapping. As part of this trend, further exploration will exhibit success rates of the programs who offer these unique courses, emphasizing real-world elements, including but not limited to GIS-based offerings in criminal justice and homeland security.

Robert Aboumitri

Criminal Intelligence Analysis Manager, Royal Canadian Mounted Police

Robert Aboumitri is a Criminal Intelligence Analysis Manager with the Royal Canadian Mounted Police (RCMP), he is currently in charge of the Greater Toronto Area (GTA) North Criminal Analysis Section which consists of a serious and organized crime analytical support team, and a team specializing in communications data analysis. During the last fifteen years, Robert has supported numerous investigations and is regularly consulted as a subject matter expert in the field of communications data analysis.

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Robert is the recipient of several medals and awards including; an Operational Service Medal, a Queen's Diamond Jubilee Medal, and a Commissioner's Commendation for Outstanding Service.

Role and Impact of Specialized Analysis in Major Crime Investigations

Mobile device data can go much further than identify contact frequency between two or more persons. In-depth cell site data analysis can highlight the general whereabouts of a device during a specific time. It could even uncover the likely route that the device user took. Examining and mapping the start and end cell sites (including the azimuth and other data) and layering the results with additional evidence (DNA, Wi-Fi, witnesses, CCTV, pictures, social media posts, etc.) considerably enhances the successful conclusion of any major crime investigation.

Robert will use a Nova Scotia homicide case that he worked on detailing his role as the analyst and discussing his interaction with the investigators, service providers, and prosecutors. Robert will also describe the analytical work that he undertook and talk about the court evidence that he presented which greatly assisted in obtaining a successful conviction.

Terra Hunniford

Royal Canadian Mounted Police

Terra Hunniford has been with the Royal Canadian Mounted Police for 10 years and has been in her current role as an Internet Investigative Analyst for the last 5 years. In 2008, Terra was assigned the Team Lead position for a group of 8 Intelligence Exchange researchers dedicated to the 2010 Olympic Joint Intelligence Group. It was during this time Terra gained an interest and awareness of the importance of the online aspect of investigations. After the wrap-up of the 2010 Olympics, Terra joined the BC Provincial Intelligence Centre as an Open Source Analyst. Terra, along with another Open Source Analyst and a Constable, quickly recognized a law enforcement resource gap in the area of Internet Investigations. Together this three person team conceived, implemented and executed the creation of a specialized unit that assists with investigations involving online activity and evidence collection. The Internet Investigation Unit was up and running by early 2011. Currently, the unit consists of a Corporal and two newly created positions; Internet Investigative Analysts. The Internet Investigation Unit is part of the Real Time Intelligence Centre and supports all of British Columbia. Terra is a trainer for the RCMP Federal Policing Training Services on Internet Research.

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The Impact of Online Open Source Intelligence in Criminal Investigations

Abstract to follow, but presentation will include online content as evidence, digital footprints, critical thinking of online OSINT and challenges for analysts.

Cpl. Laura Seeley

Royal Canadian Mounted Police

Cpl. Laura Seeley has been a member of the Royal Canadian Mounted Police (RCMP) for 10 years and is currently the Corporal in charge of the Integrated Internet Child Exploitation (ICE) Unit, which is comprised of members from the RCMP and Halifax Regional Police. Previously, she worked in the RCMP Provincial ICE Unit in Nova Scotia and as a general duty member. Laura is a trained online undercover operator and has conducted several Internet Luring and Child Pornography investigations that have been prosecuted internationally.

Case studies on Online Investigations for Internet Luring and Child Pornography

A unique element of online investigations is that often the location of the suspect and/or victim are outside the jurisdiction within which we have authority. This creates challenges for investigators when it comes to gathering evidence from other countries, apprehending/prosecuting offenders, and maintaining relationships with victims. The analysis of information obtained through social media, however, has made it easier for police to thoroughly investigate these files, resulting in successful prosecution domestically and internationally.

This presentation will examine several files that were investigated by the Nova Scotia RCMP Internet Child Exploitation Unit using open source searches to identify an online predator and how social media assisted police during the investigational process.

Linh Riddick

Sex Crimes Analyst, Vancouver Police Department

Linh Riddick has been the Sex Crimes Analyst at the Vancouver Police Department for the past 6 years. In her role at the VPD, Linh provides analytical support in relation to sex offences city-wide as well as for major investigations in the Sex Crimes and Child Abuse Unit. As the Sex Crimes Analyst, Linh works and liaises closely with the RCMP Behavioural Sciences Group and surrounding law enforcement agencies. After having developed and implemented the use of

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innovative MO templates within the VPD's multi-faceted CRIME Datamart environment, Linh has successfully applied the resulting new analytical techniques to solve serial sexual assaults at a regional level.

Tracking Sex Offenders in a Regional Datamart Environment

MO templates have been used by law enforcement agencies for many years as an aid in collecting and tracking attributes relating to certain types of crimes. While such systems allow investigators to query for similar cases, this is typically done within the confines of a silo'd database. The result is that several key details relating to known offenders quickly become outdated and irrelevant.

The integration of MO templates within CRIME (a multi-sourced relational datamart) at a regional level has enabled the VPD to use state-of-the-art techniques to analyze offenders' MO information in conjunction with real-time regional RMS information. This initiative has proven to be highly effective in identifying suspects which otherwise would not have been located via traditional analytical means. The integration of MO templates into a regional datamart which are then subsequently analyzed with the use of iBase, Analyst Notebook and ArcGIS (all of which have interactive functionality with the Datamart) have significantly enhanced analytical functions and efficiencies at both a tactical and strategic level by allowing the analyst to develop complex multi-layered queries which are not possible in a traditional RMS environment.

The proposed presentation will demonstrate the use of MO templates within the VPD's CRIME Datamart which combines the capabilities of ESRI ArcGIS & IBM's i2 products into an analytical software suite which enables complex spatial, temporal and intelligence-driven analysis.

Monica Deters

Royal Canadian Mounted Police

Monica has been employed by the Royal Canadian Mounted Police as a Crime/Intelligence Analyst since 2008. Prior to that Monica worked as a Crime Analyst for the Regina Police Service for three years. She have obtained a Bachelor's Degree in Human Justice and a Masters Degree in Public Administration. In her time with the RCMP, Monica has held three positions, firstly in the Criminal Intelligence Service Saskatchewan (5 years), Combined Traffic Services (2 years) and new to the Crime Reduction/Crime Prevention Unit.

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In addition, she has instructed courses at the University of Regina in the School of Justice Studies. During her time in the Criminal Intelligence Bureau, Monica was responsible for completing the Provincial Threat Assessment as well as the gang portfolios and Asian Organized Crime portfolios. At this time Monica also won a Canadian Criminal Intelligence Community Professional Service Award. In her spare time, Monica is very involved in coaching youth soccer and refereeing volleyball. Monica is also still an active participant in both sports and enjoys golf and travelling at every opportunity.

Tying Crime Analysis Into the World of Traffic Enforcement

Crime Analysts working for traffic units are a relatively new concept both in Canada and internationally. Having been assigned to a Combined Traffic Services unit, Monica was responsible for production of analytical products and information with no existing procedures. When she went to look for ideas of regular products, Monica realized that there is not a great deal of this type of work done nor is there a remarkable amount of literature regarding it.

Because of the uniqueness of traffic work, there is a lot of use for the information that traffic officers provide and there is a lot of knowledge that can be transferred to other units and investigations.

This presentation will cover types of analysis that can be provided both regularly and on occasion. It will also cover the different skills and knowledge an individual should have prior to undertaking this type of work. The presentation will also touch on the data sources that are available to use for these types of analyses. As with any analytical work, there are difficulties and issues with the data, which will be spoken to.

In addition, there is a vast amount of technology available to traffic units which are useful for all different types of investigations (including traffic but also property crimes, violent crimes and organized crime. This presentation will cover off what these types of technology are and how they can be utilized.

Manny San Pedro

Executive Director of MDSP Consultants and former Detective Constable, Toronto Police Service

Manny San Pedro is a former Detective Constable with the Toronto Police Service. He recently retired after 26 years of service, with his final assignment in the Sex Crimes Unit as a Criminal

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Investigative Analyst. He has been involved with various investigative and analysis units during his career, while serving five of the last ten years as an instructor and practitioner of crime and investigative analysis. At present, he is the Executive Director of MDSP Consultants providing analysis training and development services for several municipal police agencies across Ontario. He is also the Public Safety Director at 911 Priority Inc., a company specializing in upfitting law-enforcement vehicles with emergency equipment. He is also a Co-Writer, Creative Consultant and Co-Producer in the television and entertainment industry in Canada.

Workshop - Developing A Custom Calls-For-Service Dashboard

Most analysts are familiar with Excel Pivot tables. This workshop will introduce the analyst to Excel Slicers. The main focus of this workshop is to create a visualization of Calls-for-Service data in a Dashboard environment. The analyst will be provided with a Microsoft Access database of sample calls-for-service. They will transform some data columns into temporal attributes in Access and then connect to this data-source from Excel. Analysts will perform some data manipulation through functions. Analysts will also learn how to connect to a remote data-source (Excel, Access, and SQL Server). The workshop will be a mix of lecture and hands-on exercises. Analysts will develop a custom calls-for-service dashboard at the completion of the workshop.

Those interested can bring their own Calls-for-Service data in a Microsoft Access database.

Attendees will be required to bring their own laptop/notebook device. (REQ. SOFTWARE: MS Access, MS Excel 2010 or later)

Inspector James Cook

Amtrak

Inspector Cook has been a member of the Amtrak Police Department since 2005. Inspector Cook currently serves as the commander of the Criminal Intelligence Unit, supervising the criminal analytics component of the department while also providing oversight to the overall Criminal Investigations Unit of the Police Department.

Prior to his current assignment Inspector Cook served for four years in the Office of Internal Affairs where he twice received Honorable Mention as the National Internal Affairs Investigator of the Year. Inspector Cook holds a Bachelor of Arts degree in Criminology from the University of Minnesota, a Master of Arts Degree in Criminal Justice from Boston

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University, and a Master of Arts in National Security Studies from the Naval Postgraduate School.

Captain Cook is also a graduate of the Northwestern University School of Police Staff and Command, and the Senior Management Institute for Police. Inspector Cook is an active member of the International Association of Chiefs of Police, the Police Executive Research Forum, the American Society for Industrial Security, and the International Association of Crime Analysts.

Criminal Analysis in a Transportation Police Environment

The basic fundamentals of criminal analysis were developed and deployed for traditional policing environments, including municipalities and larger jurisdictions that have set boundaries and established populations. Criminal analysis in a transportation environment, such as a passenger railroad, is quite different and requires a unique approach and the utilization of a variety of methods to produce effective and useful products for police managers. Transportation police departments serve areas covering multiple jurisdictions with a population that fluctuates on a daily basis. As a result traditional analytical methods can be difficult to apply in the environment. The symposium will highlight successful methods and programs from the Amtrak Police Department as well as other transit police agencies in the United States.

Kim Audette

Royal Canadian Mounted Police

Kim has been an analyst with the RCMP for 10 years. She spent nearly 7 years as the Outlaw Motorcycle Gang Analyst for "F" Division, sitting on the National Tier Committee to combat Outlaw Motorcycle Gangs.

Three years ago Kim joined the Crime Prevention/Crime Reduction unit to develop the crime analysis program in the division. Kim has been a crime analyst now for more than three years, focusing her work on assisting detachments with identifying crime series out of crime trends, identifying investigative avenues and suspects.

Kim is also a certified Geographic Profiling Analyst, the one in the division. Her background is in Forensic Psychology, where she holds a Bachelors Degree from the University of Regina and a Master's Degree from the University of Texas at El Paso. Her area of research was

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eyewitness identification and interviewing techniques. Kim is currently completing her PhD in Forensic Psychology focusing on offenders under the age of 12.

Multi-Jurisdictional Case Studies

Kim will present on a case she worked on for the last 1.5 years. It involves a suspect who had no criminal record, but who began offending after a downshift in the economy caused him to lose his job, leading to a series of negative events in his life. Kim used MO analysis to identify two separate crime series over the span of one year and was able to identify the suspect as being responsible for each series, showing the escalation in offending. Kim used mapping software to link telephone data to crime data and validate his confession as well as identify occurrences for which a confession wasn't obtained. It was based on the analysis that the detachment was able to locate the individual responsible for more than 200 occurrences between BC, Alberta, Saskatchewan and Manitoba.

This case has received media coverage in Saskatchewan and the suspect is expected to enter a plea next month. This is a perfect example of intelligence-led policing, leading to the proactive identification of a multi-jurisdictional crime series and subsequent charges which are expected lead to a federal sentence. This is a perfect example of a best-practice approach for crime analysis. It will detail MO Linkage Analysis, Suspect identification, Cell Tower and Telephone toll analysis and mapping.

Dr. Carrie Sanders

Wilfrid Laurier University

Dr. Carrie B. Sanders is an Associate Professor of Criminology and Director of the Graduate program in Criminology at Wilfrid Laurier University. Her research interests include crime and intelligence analysis, policing, and science and technology studies.

Presently, she is working on a number of Federally funded ethnographic and qualitative studies in the areas of: (1) Big Data and data analytics in policing; (2) police women; and (3) police response to people in mental health crisis. Her research on the study of crime analysis and the integration of data science in policing recently received a Social Sciences Humanities Research Council of Canada Insight Grant and has led to the development of an international study on the Field of Intelligence Production in Australia (with Drs. Janet Chan and Lyria Bennett Moses) that received funding from the University of New South Wales. Her research has been published in high impact journals such as: *Policing & Society*; *Gender & Society*;

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British Journal of Criminology; Qualitative Sociology Review; Sociology; Canadian Review of Sociology, and Science & Public Policy.

Crime Analysis and Cognitive Effects: Studying the work of Canadian Crime Analysts

Crime analysis is the systematic analysis of crime for identifying and predicting risks and efficiently directing police resources. Adopting a social construction of technology framework, we qualitatively explored the work of Canadian crime analysts to understand how they police through flows of data and how their work informs policing practices on the ground. In our presentation, we review the available research on the work of crime analysts.

We then empirically examine Canadian crime analysts' perspectives of: (1) the organizational and cultural integration of crime analysis in Canada, (2) the technological support of analytic practices, and (3) the utilization of crime analysis and its impact on policing practices. From this investigation we argue that crime analysis, and by extension crime analysts, occupy a tenuous position in contemporary policing that is shaped by, as well as reinforced through, the integration of database policing. We argue that the division of labour, organizational context and operational cultures of policing are configured into police technologies and shape the field of intelligence production. This social shaping of technology, we argue, has led crime analysis to not be used for pre-emptive practices, but instead to be re-appropriated and used in ways that reaffirm traditional policing practices.

Shauna Bent

Crime Analyst, Toronto Police Service

Shauna Bent has been with the Toronto Police Service for 14 years and currently works as a Crime Analyst with the Strategy Management – Business Intelligence & Analytics Unit (BIAU). Prior to joining BIAU, Shauna worked as an Intelligence Researcher in the Urban Organized Crime Squad at the Intelligence Unit for 5 years. Some of her duties included generating strategic and tactical products in order to support resource management and covert operations. Since joining the BIA, Shauna has worked on several analytics-driven projects such as the Annual Statistics Report, Shooting Reports, Major Crime Indicator dashboards, and maps. Additionally, Shauna supports the analytical needs of the Toronto Police Operation Centre, Community Safety Command as well as front-line officers. Shauna also supports and assists in delivering analytical training to the divisional and intelligence analysts. Before immigrating to Canada in 2000, Shauna completed a double major Bachelor of Science degree in Zoology and Botany graduating with honours, after which she completed three years of post-graduate MPhil research and analysis in Environmental Sciences (Freshwater Ecology).

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Shauna is currently pursuing a Master of Science degree in Crime Science from the University College of London.

Business Intelligence & Analytics Best Practices

Toronto was incorporated as a city in 1834. As of the 2016 census, the population of Toronto is just under 2.8 million people covering a geographic area of about 641 km². The City of Toronto consists of 140 neighbourhoods and 17 police divisions. Currently, Toronto Police Service (TPS) has a uniform strength of just under 5,300 officers and civilian strength of approximately 2,300. Business Intelligence & Analytics Unit (BIAU) is responsible for supporting the Senior Management Team in their strategic management of operations by providing the information, tools and resources necessary to operate an effective analytical reporting system and provide effective and timely crime analysis.

The BIAU utilizes data obtained through the Service's Records Management System (Versadex) and the Calls for Service (I/CAD) system in order to support TPS business processes. Innovative applications have been developed to enhance TPS' crime reporting to internal as well as external consumers.

Through the use of interactive dashboards and mapping applications, Front Line officers and Senior Command are able to quickly access crime and traffic management data and easily identify Service-wide crime trends and patterns both temporally and spatially. This presentation will focus on best practices, lessons learned, challenges and the vision for creating and supporting these analytical products and services.

Chief Inspector Friedrich Steiner

Austrian Federal Police

Chief Inspector Friedrich "Sam" Steiner, born in 1961, sworn Police Officer since 1980, started on the streets of Vienna, as an Undercover Agent against Drugs from 1983 to 1986. Sam was a Detective on different drug units in Austria from 1986 until 2005. In 2005, Sam was entrusted with founding the first local crime analysis unit in Graz/Styria, and now has the honor of leading one of the most successful analysis units in Austria, responsible for a population of approximately 1.2 million people. In order not to lose contact with the investigation units, Sam still support them in arrests, surveillance and interrogations, especially in cases where they also need his help as a crime analyst. Sam has never been a university student, but uses every opportunity to learn for his job, and has attended countless classes for everything an analyst needs. When Sam is off duty he trains about 40 Judo-Kids and female classes for self-defense.

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The value of crime analysis – two case studies from Austria where crime analysis has been instrumental in achieving successful outcomes

The presentation will cover two cases in which analysis has been instrumental. A man who had already murdered a prostitute, kidnapped a 15-year-old girl and raped her several times. Subsequently, he wanted to kill her. Just by chance he was stopped by a car accident. Analysts were able to prove the entire case through exact processing, although the prosecutor failed to obtain call detail records. The perpetrator recanted his confession in court, but he has been sentenced to a long term of imprisonment as a consequence of the exact analytical argument. A second case was a huge series of damage to cell masts, where the suspect climbed onto the masts and cut the wires from the cells and from the warning lights for the air traffic. Using multiple tools, especially those for geographic profiling, analysts were able not only to forecast the next case, but also to catch the suspect in the act!

Lianne Sobey

Royal Canadian Mounted Police

Lianne Sobey has been a Criminal Intelligence Analyst with the RCMP for the past eight years. She has worked with a variety of units including National Security Enforcement Section, Major Crime Unit, Federal Operations, Criminal Operations and most recently the Historical Homicide Unit. Among a number of other major files, Lianne has worked on fifteen murder investigations throughout her career, a number of which were cold case investigations. Lianne has obtained certification in Crime and Intelligence Analysis from the California Department of Justice and California State University, which included training in crime analysis, criminal intelligence analysis, criminal investigative analysis, and research methods in criminal justice. Lianne has also had training specific to cold case homicide investigations with the Institute of Police and Technology Management through the University of North Florida.

Crime Analysis in Cold Case Investigations

This presentation will provide an overview of the work that can be done by a crime analyst to support historical homicide teams in their investigations, both on a strategic and tactical level. It will touch on the role of a crime analyst in prioritizing historical homicide files based on solvability to work within the cold case concept. It will also highlight how various analytical products can be used to support historical homicide investigations, including event timelines, exhibit timelines, association charts, suspect profiles, surveillance packages, open source research, scene maps, and the identification of inconsistencies in witness and suspect

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statements. The practical application of Microsoft Excel will also be explored as it pertains to the creation of analytical event timelines.

The presentation will examine some of the challenges that are unique to cold case investigations and how crime analysis can be used to help investigators deal with these challenges. A case study of the murder of a two year old girl in 2004 will be presented to illustrate how crime analysis supported a historical homicide team throughout the investigation and through the court process. This included analytical event timelines, charts outlining statement discrepancies and presentations that were ultimately used by the Crown Prosecutor in closing arguments to the jury. This investigation resulted in a second degree murder conviction twelve years after the murder.

John Ng

Special Constable, Saskatoon Police Service

Special Constable John Ng has been with the Saskatoon Police Service for the past 7.5 years. He first worked in their Planning and Research/CompStat Unit and was subsequently hired as their first and only Patrol (Crime) Analyst in November 2011. He's also been an active member of the International Association of Crime Analysts for the past 7 years and is a member of the Standards, Methods, and Technology Committee, Methods Subcommittee where he's assisted with writing 2 white papers and 2 in press. He's successfully completed an Honours Bachelor of Science in Psychology from the University of Toronto and a Master of Science from St. Joseph's University in Philadelphia, PA. Outside of work, he's a full-time husband, a chess enthusiast, and a student and instructor of taekwondo.

Prioritizing Offenders and the Role of Crime Analysts in Offender-Focused Crime Prevention

This presentation will draw upon findings of a white paper that is currently in press from the International Association of Crime Analysts Standards, Methods, and Technology Committee, Methods Subcommittee. This paper speaks to a fundamental question of how police agencies determine which offenders to focus on, in other words, how to they select their priority offenders. This presentation will define a priority offender, the rationale for focusing on priority offenders, the current and future roles of crime analysts in offender focused crime prevention, offender ranking methodologies and risk assessments, and the importance of gathering data about offenders from various data sources and collaborative risk driven public safety models.