

Policing 2.0 Conference 13th and 14th March 2019

Talk abstracts and speaker profiles

Susanne Knabe-Nicol

Title: *Introducing Dr IPIP - the YouTube channel for investigators who go the extra mile*

Abstract: *Dr IPIP will be formally launched at this conference and contributions from the audience are invited. It is an educational YouTube channel for investigative professionals which covers topics such as investigative psychology, evidence-based policing, what works best, how to use such knowledge in your investigations, and so on. It will also feature interviews with influential people in the field. IPIP stands for 'Investigative Psychology for Investigative Practitioners'. The aim is to allow investigators to enhance their skills by making research findings more accessible. The audience will be invited to submit suggestions on what should be featured on the channel, to ensure the content is relevant and applicable at all times.*



Profile: *Susanne has been working for the UK police for the past decade and completed her PhD in Investigative Psychology part-time as she wanted to ensure she is firmly embedded within the practitioners' world whilst also making her mark in academic circles. She wants to help bridge the gap between academia and practitioners with her efforts to translate research findings into something actionable and practical for investigative professionals to use.*

Simon Ruda

Title: *Building resilience to phishing attacks: experimental evidence*

Abstract: *Presenting the results of a large scale randomised controlled trial to build resilience against and reduce susceptibility to phishing attacks.*

Profile: *Simon is a Director at the Behavioural Insights Team. He oversees BIT's work with the Home Office, MoJ, Foreign and Commonwealth Office and DfID, as well as multiple police forces. Simon is also responsible for BIT's work with 28 foreign governments across Latin America, Asia and Europe. One of the original members of BIT, Simon has led some of the unit's most influential trials. Prior to joining BIT, Simon worked for the Prime Minister's Strategy Unit, for the Foreign and Commonwealth Office and as a Home Affairs advisor to a former Shadow Home Secretary in the House of Commons. He started his career as a marketing strategist, working with global brands, and now has oversight of BIT's brand and reputation globally. He also sits on BIT's company Board alongside the Cabinet Office and Nesta. Simon has recently joined the Metropolitan Police on a short-term secondment to establish and lead a strategic insight function in support of Board decision making.*

David Lawes

Title: *Carrying Tasers increases police use of force and assaults against officers – a study*

Abstract: *An experiment with City of London police force shows that just the presence of stun guns leads to greater hostility in police-public interactions, an example of what researchers call the ‘weapons effect’. The study has found that London police officers visibly armed with ‘Taser’ stun guns were assaulted twice as often on average, and were 48% more likely to use force, than those on unarmed shifts. (From the published article: *The Less Lethal Weapons effect*)*



Profile: Chief Superintendent David Lawes M.St (Cantab), *City of London Police*

Dave is currently a Chief Superintendent with the City of London Police, having responsibility for International Training and development. His current role includes providing capability advice in country for the Public Security Directorate in Jordan. Dave’s 26 year policing career has been split between Sussex Police and the City of London Police. His experience across Uniformed Policing has informed three scientific evaluations: firstly the creation of a Collision Harm Index to inform evidence based traffic enforcement (2014), secondly a before and after study using Body Worn Video and most recently a randomised control trial, testing the impact of taser during a yearlong extended roll out, completed with Dr Barak Ariel at the University of Cambridge.

Dr David Ashby (pictured) & Andy Feist

Title: *What is the Model Hospital?*

Abstract: *The Model Hospital is a digital information service provided by NHS Improvement to all NHS provider trusts. It can be used by anyone working in an NHS provider trust, from board to ward, and has been developed and designed to help providers compare productivity, quality and efficiency data with peers to see what good looks like and identify opportunities to improve. Dr David Ashby will introduce and demo the Model Hospital and talk through how provider trusts are engaging with, and using the product*



Profiles: Dr David Ashby is the Director of Model Hospital & Analytics and leads the development of the Model Hospital at NHS Improvement. David has over 15 years’ experience in health information, analytics, technology and security in both commercial and NHS environments. He is also a Lay Board Member at NHS Ealing CCG. Prior to joining NHS Improvement in 2017, David was an Executive Director at Dr Foster, a leading healthcare information company. He has a PhD from UCL, an MSc from University of Toronto and chairs the advisory board for a major Big Data investment held by UCL, Oxford, Leeds and Liverpool universities.

Andy Feist has been working in crime and policing research since the late 1990s and currently leads a programme of policing research within the Home Office’s Crime and Policing Analysis Unit. Andy has published research on a wide range of law enforcement topics including the use of media in serious crime investigations, attrition in rape offences, the use of forensic science and the effectiveness of stop and search. Andy is also a fellow at the Centre for British Studies in the Humboldt University, Berlin.

Prof Karen Bullock & Prof Ben Bradford

Title: *Diversity and the future work force. What is the point and what works: an evidence-based approach?*

Abstract: *Professor Bullock will examine five ways that evidence might be used to improve the diversity of the future work force. Professor Bradford will consider the extent to which shared identity and 'social similarity' between police and public might enhance trust and legitimacy'.*

Profiles: Professor Bullock's research interests are oriented around aspects of contemporary policing and crime prevention theory and practice. This has incorporated the theory of and practical application of community policing, problem-oriented policing and intelligence-led policing; the impact of the 1998 Human Rights Act on the police service; evidence-led policy and practice; risk management theory and practice; evaluation in criminal justice practice; work with offenders; and, organized crime and asset recovery; experience of injuries amongst police personnel; religion and policing. She is also interested in crime prevention and especially what is effective when working with offenders and desistance. Her research has been funded by charities, police services, RCUK and the British Academy.

Ben Bradford is Professor of Global City Policing and Director of the Institute for Global City Policing at the UCL Jill Dando Institute of Security and Crime Science.

Prof Tom Kirchmaier

Title: *Five practical applications of Big Data in policing*

Abstract: *Prof Kirchmaier will give 5 examples of current research projects that are based on data from UK police forces, and show what can (and cannot) be done with good empirical analysis.*

Profile: Prof Tom Kirchmaier is an academic at the Centre of Economic Performance of the London School of Economics working on the Economics of Policing and Crime. He is interested in understanding the causes of crime, and questions of police performance, based on large datasets ('Big Data') from the police.



Snr Sgt Simon Williams (EPB Division, Western Australia Police Force)

Simon will be giving two talks at the conference, as follows:

How Long Can A Hot Spot Go Without Patrol? Findings on the Effects Caused by Hot Spot Patrols.

Abstract: *There is a wealth of evidence on the effectiveness of hot spot patrols targeted at long term concentration of crime. However, there is a dearth of evidence of how these patrols affect levels of crime and crime harm in the days after a patrol has happened and police don't return. This experimental field trial examines the overall effect of hot spot patrol on crime and crime harm in Perth, Western Australia and investigates residual deterrence effects observed when hot spots are left without targeted patrol for up to 4 days and more than 5 days at a time.*



Perception, Data, and Reality: Two Case Studies from Western Australia.

Abstract: *The first case study tests officer experience of predicting where hot spots of crime will occur in comparison to traditional algorithmic methods and tracks for a ten week period where officers patrol in relation to both methods. This analysis indicates that police officers should be supported with hot spot mapping tools which identify data derived micro-places with persistent issues. Analysis also reveals officers patrol both their own and data-derived hot spots regularly; however, they only stay for a matter of a few minutes. These short stays are contrary to best evidence, which dictates officer patrols in hot spots should last for approximately 15 minutes in order to create both initial and residual deterrence. The second case study looks at how algorithms, specifically random forest modelling, can be used to help police make better decisions on targeting risky drivers and highlights how using this technology can uncover potentially harmful police practices in the world of traffic enforcement.*

Profile: Simon served with the West Midlands Police for 15 years, leading teams across local policing and integrated offender management. In June 2016 Simon took the opportunity to transfer to the Western Australian Police as a Senior Sergeant where he leads research within the Evidence Based Policing Division. In July 2016 he graduated with distinction from the Masters programme in Applied Criminology and Police Management at The University of Cambridge. During his time with West Midlands Police Simon led change management and implementation within Operation Turning Point, the UK's largest randomised control trial. This internationally significant policing experiment has seen Simon work alongside other forces in the UK and Australia where he has delivered master classes and advised on implementation of change programmes focused on evidence based policing. During his last three years in the U.K, Simon led two key areas within the West Midlands. This included working alongside the University of Birmingham to reduce crime, anti-social behaviour and improve the legitimacy of the local police in the eyes of the student community. And latterly in the diverse and challenging area of Handsworth, Birmingham where he implemented a hot spot policing strategy across, conducting a randomised control trial testing the 'Koper' curve against a different way of delivering patrol dosage into hot spots of crime and anti-social behaviour. Amongst others, Simon is currently leading field research in Western Australia testing: effectiveness of hot spot patrol strategies; effects of procedurally just police engagement on community drug intelligence; comparison of police officer predictions of crime concentration, actual patrol locations and where crime and crime harm occurs; effectiveness of roadside breath testing in Western Australia and the effects of GPS enabled devices on frontline police officers. In 2018 Simon joined the ANZ SEBP as secretary and treasurer to support the team in influencing the future of evidence based policing in this region.

Tony Bovaird

Title: *USING RESEARCH NETWORKS TO IMPROVE POLICING OUTCOMES AND CITIZEN CO-PRODUCTION*

Abstract: *There has been a huge amount of research into policing in the UK and internationally - and into the other public services which set the context for effective police work. However, it is not easy to access relevant research quickly when you need it. That's what networks are for. In this workshop, Tony Bovaird will describe how LARIA (the Local Areas Research and Intelligence Association) has been working since 1974 to provide a fast, effective network for researchers working in local public services - and invite a discussion on how SEBP and LARIA can make better use of each other's networks.*

Profile: Tony Bovaird is Emeritus Professor of Public Management and Policy at University of Birmingham and Director of the non-profit organization Governance International. He is a Trustee of LARIA (Local Areas Research and Intelligence Association) and has done research and consultancy for the European Commission, OECD, UK government, Cabinet Office, NAO, several UK police forces and many international governments.

Chief Superintendent Arif Nawaz

Title: *It's not what you do it's the way that you do it. Is stop and search procedurally just?*

Profile: Chief Superintendent Arif Nawaz, Greater Manchester Police. Arif is the North West Coordinator for the Society of Evidence Based Policing. He is the head of Organisational Learning and Workforce Development for Greater Manchester Police where he has brought an evidence based approach and encouraged research collaborations.



Daniel Efron

Title: *Moral Licensing: When "Doing Good" Frees People to "Do Bad"*

Abstract: *People like to feel and appear virtuous, but sometimes they're tempted to act in ways that could call their virtue into question. What makes people feel comfortable succumbing to such temptations? In this talk, I review evidence from psychology research that a track record of "good deeds" can ironically free people to act less-than-virtuously. I also reveal the mental gymnastics people perform to convince themselves they have such a track record. Finally, I discuss implications of these findings for health, diversity, and ethics.*

Profile: Daniel A. Efron is an Associate Professor of Organisational Behaviour at London Business School. Previously, he taught at the Kellogg School of Management at Northwestern University, and was a fellow of the Edmond J. Safra Center for Ethics at Harvard University. He earned a Ph.D. in social psychology from Stanford University, and a B.A. in psychology from Yale University (*magna cum laude*). His research examines the psychological processes that allow people to act unethically

without feeling unethical. He also researches how people form judgments of others' wrongdoing. His work has appeared in such scholarly publications as *Journal of Personality and Social Psychology*, *Organizational Behavior and Human Decision Processes*, *Journal of Experimental Social Psychology*, *Personality and Social Psychology Bulletin*, and *Journal of Consumer Research*, and has been featured in such popular media outlets as the *New York Times*, the *Washington Post*, the *Los Angeles Times*, *The Atlantic*, and *Bloomberg*. Named one of the "Best 40 Business Professors Under 40" by Poets & Quants, he has been honored with the MBA Class of 2015 Teaching Award from London Business School and a Dissertation Research Award from the American Psychological Association.

Chief Constable Sara Thornton CBE QPM Chair of the National Police Chiefs' Council

Sara will be part of a panel speaking to ***"The role of evidence based practice in the future of policing"***. The panel will be chaired by Chief Inspector Neil Ralph from Devon and Cornwall Police.

Profile: Sara joined the Metropolitan Police Service in 1986 and over the next fifteen years her career alternated between operational postings in West London and strategic roles within New Scotland Yard. She served with Thames Valley Police as Assistant Chief Constable, Deputy Chief Constable and Acting Chief Constable before holding the role of Chief Constable for eight years until March 2015. She has also been Chair of ACPO Intelligence Portfolio, Vice-Chair of ACPO Terrorism and Allied Matters, Director of the Police National Assessment Centre and ACPO Vice- President.



Sara is a member of the Royal College of Defence Studies, the Advisory Board for the Oxford University Centre for Criminology and the International Advisory Board for the Cambridge Executive Police Programme. She is a graduate of Durham University, also holding a Master of Studies (MSt) degree in Applied Criminology and Police Management from Cambridge University alongside honorary doctorates from Oxford Brookes University and Buckinghamshire New University.

Sara was awarded the Queen's Police Medal in 2006 and made a Commander in the Order of the British Empire in 2011. She has also been recognised with a Career Achievement Award from the Police Training Authority Trustees and the Sir Robert Peel Medal for Outstanding Leadership in Evidence-Based Policing.

Mike Cunningham

Mike will be part of a panel speaking to ***“The role of evidence based practice in the future of policing”***. The panel will be chaired by Chief Inspector Neil Ralph from Devon and Cornwall Police.

Profile: Mike Cunningham joined Lancashire Constabulary in 1987 and worked in a number of operational roles before becoming a divisional commander in Blackpool in 2002.

He attended the Strategic Command Course in 2005 and was appointed assistant chief constable in Lancashire Constabulary in 2005 and deputy chief constable in 2007. In 2009, Mike was appointed Chief Constable of Staffordshire Police. In 2013, he was awarded a Queen’s Police Medal in the New Year’s Honours list and has been awarded an Honorary Doctorate from Staffordshire University. Nationally, he was chair of the ACPO Counter Corruption Advisory Group, a lead for Professional Standards, and lead of the National Policing Workforce Development Business Area. During his service with Lancashire Constabulary, Mike was known for his commitment to diversity and took on the role of national policing lead for Lesbian, Gay, Bisexual and Transgender (LGBT) issues. More recently, Mike was HM Inspector of Constabulary and HM Inspector of Fire & Rescue Services from September 2014 to January 2018. In January 2018 Mike was appointed CEO of the College of Policing.



Cressida Dick CBE QPM, Commissioner of Police of the Metropolis

Cressida will be part of a panel speaking to ***“The role of evidence based practice in the future of policing”***. The panel will be chaired by Chief Inspector Neil Ralph from Devon and Cornwall Police.

Profile: Cressida Dick has 34 years of public service, the majority of which she has spent in policing. She has held leadership roles in each of the organisations she has worked in, the Metropolitan Police Service, Thames Valley Police, the National Police College and the Foreign and Commonwealth Office. Cressida has overseen a wide variety of high-profile and complex policing investigations spanning serious and organised crime, security and protection.



From 2011 to 2014 she was in charge of UK counter terrorism policing, leading operational security and counter terrorist operations for The Queen’s Diamond Jubilee and the London 2012 Olympics.

In 2014 Cressida joined the Foreign and Commonwealth Office senior leadership team. In February 2017 Cressida was appointed Commissioner of the Metropolitan Police Service taking up the role in April 2017.

Cressida is former president of the British Association of Women Police and has a Master’s Degree in Criminology from Cambridge.

Prof Larry Sherman, Cambridge University & Honorary Chair SEBP

Title: 21 Years of Evidence-Based Policing: The Latest Progress Report

Abstract: *This talk reviews the main developments in the progress of EBP in the UK and globally, from the targeting of knife murder hot spots to advances in digital policing support systems, from the rapid growth of the CAMBRIDGE JOURNAL OF EVIDENCE-BASED POLICING to funding for English police leaders to study for master's degrees on EBP, from the launch of a Pracademic Hall of Fame to the announcement of its first recipient. Key research findings will be announced on the day in advance of publication.*



Profile: Lawrence W. Sherman is Chair of the Police Executive Programme at the University of Cambridge, which offers a part-time Master's degree in applied criminology and police management to over 150 police leaders from ten countries. His 1998 (US) Police Foundation lecture on "Evidence-Based Policing" is widely recognized as the launch of a global professional movement generating societies for evidence-based policing in the UK, Australia-New Zealand, Canada and the US, now with over 5,000 members. Sherman has served as the Honorary President of the Society of Evidence-Based Policing (UK) since its formation in 2010, and is the founding Editor-in-Chief of the CAMBRIDGE JOURNAL OF EVIDENCE-BASED POLICING. Sherman began his career in police research in the New York City Police Department in 1971 as a civilian analyst in the Office of the Commissioner. Since then he has conducted or designed field research and experiments in over 30 police agencies across five continents, including the Metropolitan Police in London and the Australian Federal Police.

Dr Julie Maxton CBE, Executive Director, the Royal Society

Title: Take nobody's word for it: Science and Policing

Profile: Dr Julie Maxton CBE is the Executive Director of the Royal Society, the first woman in 350 years to hold the post. Before taking up her position at the Royal Society in 2011 Julie was Registrar at the University of Oxford, the first woman in 550 years in the role. She is an Honorary Fellow of University College Oxford, a Bencher of the Middle Temple, a Freeman of the Goldsmith's Company, and a Board member of Engineering UK, the Charities Aid Foundation, Haberdasher Aske's School and of the International Advisory Board of the Blavatnik School of Governance at Oxford University. Originally trained as a barrister at the Middle Temple, Julie combined a career as a practising lawyer with that of an academic, holding a number of senior academic positions, including those of Deputy Vice Chancellor, Professor and Dean of the Faculty of Law at the University of Auckland, New Zealand. She is the author of numerous articles concerned with trusts, equity, commercial and property law.



Rick Muir

Title: *What is the role of the police in preventing crime?*

Abstract: *The police have always been said to have a role in crime prevention. But what does this mean today? What does the evidence tell us about where the police are most effective at preventing crime? In giving the police a role in crime prevention and harm reduction how do we guard against the danger of mission expansion? What can we learn from police forces internationally?*

Profile: Dr Rick Muir is Director of the Police Foundation, the UK's independent policing think tank. He has been a public policy researcher for most of his career, most latterly working on public service reform, including on policing and criminal justice policy, at the Institute for Public Policy Research (IPPR). Prior to that he did his DPhil in Latin American politics at the University of Oxford. He is currently a Visiting Professor at Northumbria University, a Fellow of the Royal Society of Arts, Manufactures and Commerce (RSA) and a member of the Cumberland Lodge Police Steering Committee. He was previously a local councillor in both Oxford and Hackney.



Nic Pole

Title: *Futures and Foresight: Why and how policing should study the future.*

Abstract: *Faced with a rapidly changing, complex world, policing must hone its ability to anticipate and prepare for future developments. While reacting quickly to the unforeseen and the unpredictable will always be a distinguishing feature of modern policing, a world of constant change demands that we also look beyond immediate challenges to prepare for the less urgent, yet potentially more important issues developing over the horizon. This short talk will set out how policing can use the disciplines of futures and foresight to do just this.*

Profile: Nic is a Principal Analyst at the College of Policing where he leads on futures and horizon scanning. Before joining the College he was the Research Manager at the British Transport Police. He has an MSc in Criminology from the London School of Economics.



Prof Nick Tilley

Title: *Putting the Fizz back in POP*

Abstract: *POP is evidence-based both in its rationale and in its practice. Efforts to implement POP in Britain go back 35 years. It has always had some advocates and some practitioners, but has never been universally embraced. Better to flourish for the future POP needs committed leaders and well-motivated staff who have access to the resources, including relevant and realistic evidence, to deliver it successfully.*



Profile: Nick Tilley is a professor in the Department of Security and Crime Science at UCL. He is interested in evaluation methodology, the international crime drop, problem-oriented policing and situational crime prevention. He was awarded an OBE for Services to Policing and Crime Reduction in 2005 and elected a Fellow of the Academy of Social Sciences (FACSS) in 2009.

Toby Davies

Title: *Crime prediction in practice: Planning patrols and combining crimes*

Noemié Bouhana & Paul Gill (pictured)

Title: *Advances in Terrorism Risk Analysis.*

Profile: Dr. Paul Gill is a senior lecturer in Security and Crime Science. Previous to joining UCL, Dr. Gill was a postdoctoral research fellow at the International Center for the Study of Terrorism at Pennsylvania State University. He has over 50 publications on the topic of terrorist behaviour. He has conducted research funded by the Office for Naval Research, the Department of Homeland Security, DSTL, the European Union, the National Institute of Justice, CREST and MINERVA. Collectively these grants have been worth over 9 million euro. These projects focused upon various aspects of terrorist behavior including the IED development, creativity, terrorist network structures, and lone-actor terrorism. His doctoral research focused on the underlying individual and organizational motivations behind suicide bombing. This piece of research won the Jean Blondel Prize for the best Ph.D. thesis in Political Science in Europe for 2010. He has published in leading psychology, criminology and political science journals.



Bennett Kleinberg

Title: *Are cryptocurrencies the future of fraud?*

Abstract: Pump-and-dump schemes are fraudulent price manipulations through the spread of misinformation and have been around in economic settings since at least the 1700s. With new technologies around cryptocurrency trading, the problem has intensified to a shorter time scale and broader scope. Government regulation has not yet caught up, leaving cryptocurrencies particularly vulnerable to this type of market manipulation. This talk presents the findings of an empirical study into pump-and-dump detection. The results suggest that there are some signals in the trading data that might help detect pump-and-dump schemes, and



we demonstrate these in our detection system by examining several real-world cases. The talk concludes with an outlook on the problem and how data science and crime science can jointly start addressing it.

Meha Shukla

Title: *Endless possibilities of Internet-of-things (IoT) in future smart cities*

Abstract: *The sustainable development initiatives coupled with the rapid growth of internet-of-things(IoT) and insights from big data are increasingly integrating the digital world with the physical world. Smart connected digital cities are aggregating data from disparate IoT devices to provide cost-effective and efficient changes to the way we live. The digital disruptions in our cities is presenting new challenges for security, legal frameworks and law enforcement. However, the upcoming designs for the digitally smarter cities also provide massive opportunities for digital policing. To this context, this session intends to provide an overview of the impact of the digital transformation on crime and security.*

Profile: Meha Shukla has a bachelor's degree in Mechanical Engineering and MRes (Masters in Research) in Security and Crime science. Meha has recently completed a research specific to "Are cybersecurity risks managed effectively in UK post NIS regulation?" She is currently working with EU Horizon 2020 project and other public sectors in UK to pursue her PhD at UCL on "Cyber/ Physical security of the future smart streets." Meha is a senior business transformation and assurance manager with 27 years of global experience in shaping, planning, executing and reviewing technology based business change programmes of the order of £3-£30 million across various industry sectors (Finance, Title insurance, Telecom, Manufacturing, Automotive, Meteorology and Health care). Her past 10 years of experience includes auditing regulatory requirements to manage Business Change programme risks at Lloyds Banking Group and managing business-to-business programme for privatisation of the services at British Telecom. Meha also works as a mentor to small businesses in the UK.

Nick Ross

A radio and TV presenter and director, Ross was once best-known for his road safety initiative in the 1980s which focused on vehicle and highway engineering rather than driver training. The success – fatalities fell from 6,000 to 1,800 – led him to adopt the same approach in healthcare and fire safety, and, as the presenter of the BBC's Crimewatch programme, he conceived a similar, multidisciplinary approach to cutting crime, embracing architecture, engineering, design and public policy, and largely devoted to designing-out unnecessary opportunities for harm. Following the death of his colleague, Jill Dando, in 1999, he formed a charity which led to the creation of the Jill Dando Institute of Crime Science at UCL. He is a Fellow of UCL and a visiting professor. He is a trustee of several charities committed to community safety and public healthcare and is an NHS non-executive director.

