

CONFERENCE PROGRAMME DAY ONE

Tuesday 18 October 2016

08.30 Conference Registration

09.30 **WHITTLE** **WELCOME TO BIOMETRICS 2016**

Isabelle Moeller, *Chief Executive, Biometrics Institute; Conference Chair, Biometrics 2016*
Nigel Clear, *Commercial Director Conferences, Science & Technology, Elsevier, UK*

09.40 **WHITTLE** **SETTING THE SCENE: BIOMETRICS AND IDENTITY MANAGEMENT**

In this opening session, Keynote Speakers will set the scene for the discussion about identity management and customer authentication.

Session Chair: Andrew Rice, *Chairman & Director, Biometrics Institute; and Assistant Secretary, National Security Policy Branch, National Security Division Attorney-General's Department (AGD), Australia*

09.45 **KEYNOTE ADDRESS: Public perception of biometrics**

Kenneth D. Gantt, *Deputy Director, DH/ NPPD/OBIM US Department of Homeland Security – Office of Biometric Identity Management, USA*

10.15 **KEYNOTE ADDRESS: The intersection of forensics and biometrics in the context of face image analysis**

Richard Vorder Bruegge, *Senior Photographic Technologist, FBI - STB - OTD - TASB Federal Bureau of Investigation, USA*

10.40 Questions and Discussion

11.00 Refreshment Break

11.30 **WHITTLE** **SETTING THE SCENE: THE CURRENT ENVIRONMENT**

Customer behaviour is changing with transactions increasingly moving to the mobile and digital world. Fraud and cyber-attacks are on the increase which demand more controls to be put in place. User name and passwords are clearly outdated. What can biometrics deliver?

Session Chair: Andrew Rice, *Chairman & Director, Biometrics Institute and Assistant Secretary, National Security Policy Branch, National Security Division Attorney-General's Department (AGD), Australia*

11.35 **KEYNOTE ADDRESS: Shaping the future of border management – Smart Borders and beyond**

Krum Garkov, *Executive Director, European Agency for Operational Management of Large-scale Information Systems, European Commission – eu-LISA, Estonia*

12.00 **A world with ubiquitous biometrics**

John C. Mears, *Senior Fellow, Engineering and Technology, Leidos, USA*

12.10 **Impact of identity crime**

Linda Champion, *Manager Europe, Africa & Middle East, Australian Federal Police, UK*

12.30 **Identity fraud – The nature of the problem**

Sandra Peaston, *Assistant Director, Insight, Cifas, UK*

12.45 **Cyber security – The financial risks for your organisation**

Gregory Henwood, *formerly with UK Home Office and Ministry of Justice, UK*

13.00 Questions and Discussion

13.05 Lunch

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big data biometrics

14.05 **WHITTLE** **UNIQUE IDENTITY AND ELIGIBILITY**

Expert speakers give case study and technical presentations to show how biometrics provide a unique opportunity to identify and verify people.

Session Chair: John C. Mears, *Senior Fellow, Engineering and Technology, Leidos, USA*



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- 14.10 **Identity management in 2030 – The role for biometrics in delivering integrity and performance for identity chains**
Jasper Mutsaers, *Personal Records Database & Travel Document Agency, Ministry of the Interior & Kingdom Relations, The Netherlands*
- 14.30 **Australian government developments in facial biometric matching**
Andrew Rice, *Chairman & Director, Biometrics Institute and Assistant Secretary, National Security Policy Branch, National Security Division Attorney-General's Department (AGD), Australia*
- 14.50 **KEYNOTE ADDRESS: An update on the UID programme**
Yashwant Kumar, *Additional Director General (Authentication & Applications), Unique Identification Authority of India (UIDAI), India*
- 15.10 **SOLUTION SPOTLIGHT: Bringing game-changing capabilities to biometrics with flexible fingerprint sensors**
Rouzet Agaiby, *Senior Business Development Engineer, FlexEnable, UK*

15.20 **Questions and Discussion**

15.25 **Refreshment Break**

15.45 **WHITTLE CREATING SOCIAL IMPACT WITH BIOMETRICS**

Technologies are available to help create a safer environment especially for the vulnerable and children. What investment is needed to improve safety of children in the digital and physical world and where does biometrics fit?

Session Chair: Sue Black, *Director, Centre for Anatomy & Human Identification, University of Dundee, UK*

15.50 **KEYNOTE ADDRESS: Protecting children with biometrics: Current and planned technology adoption at NCMEC**
Mark Gianturco, *Chief Technology Officer, National Center for Missing & Exploited Children, USA*

16.10 **Use of technology to prevent human trafficking – Data and privacy issues**
Felicity Gerry, *Researcher, School of Law, Charles Darwin University, Australia*

16.30 **Opportunities and challenges for biometrics aiding in child protection**
Peter Waggett, *Emerging Technologies, IBM & Chair IST/44 Biometrics Committee, BSI IBM, UK*

16.50 **Facial comparisons with images of children: Human and algorithm performance**
Dana Michalski, *Human Scientist, National Security and Intelligence, Surveillance and Reconnaissance Division, Defence Science and Technology Group, Australia*

17.05 **Brainstorming session: How can biometrics aid in child protection and have social impact?**
Moderator: Peter Waggett, *Emerging Technologies, IBM & Chair IST/44 Biometrics Committee, BSI IBM, UK*

Panellists:

Norberto Andrade, *Privacy & Public Policy, Facebook, USA*

Sue Black, *Director, Centre for Anatomy & Human Identification, University of Dundee, UK*

Jim Cole, *Special Agent, National Program Manager – Victim Identification, US Department of Homeland Security (DHS) – Homeland Security Investigations, USA*

Mark Gianturco, *Chief Technology Officer, National Center for Missing & Exploited Children, USA*

Patrick Grother, *Biometric Standards and Testing Lead, National Institute of Standards & Technology (NIST), USA*

Patricia Wolfhope, *DHS S&T Program Manager, US Department of Homeland Security (DHS) – Science & Technology Directorate, USA*

18:00-20:00 **Biometrics Institute Drinks Reception, Australia House, The Strand**

CONFERENCE PROGRAMME DAY TWO

Wednesday 19 October 2016

08.30 Registration

09.00 **WHITTLE UNLOCKING DIGITAL AND MOBILE IDENTITY WITH BIOMETRICS**

The end of passwords, solving online identity management, what immigration needs from industry and ID documents on the smart phone: Digital and mobile identity issues for which biometrics has the answer.

Session Chair: Richard Agostinelli, *Director, Biometrics Institute; and CEO, Crossmatch, USA*

09.05 **The value of identity**

Terry Hartmann, *Vice President, US & Canada, Travel & Transportation, Unisys, USA*

09.25 **The end of passwords?**

David Ferbrache, *Technical Director Cybersecurity, UK KPMG, UK*

09.40 **Solving online identity: Biometrics' piece of the puzzle**

Paul Grassi, *Senior Standards & Technology Advisor for Identity, National Institute of Standards & Technology, USA*

10.00 **Bringing ID documents to the smart phone**

Lukas Praml, *Chief Innovation Officer, Austrian State Printing House OeSD, Austria*

10.20 Questions and Discussion

10.35 Refreshment Break and Exhibition Viewing

WHITTLE ID AT THE BORDERS

11.00 This session will look at key trends and strategies around the use of biometrics at the border and how to create closer collaboration between carriers, airports/infrastructure providers and border agencies to create secure and efficient movement of people.

Session Chair: Glen Wimbury, *Director, Biometrics Institute and Border Systems Improvements, Border Force, UK*

11.05 **KEYNOTE ADDRESS: Mission ready: U.S. Customs and Border Protection's tailored approach to Implementing a biometric exit program**

Michael Hardin, *Deputy Director, Entry/Exit Transformation Office, Department of Homeland Security, US Customs and Border Protection*

11.25 **Case study: Government of Aruba with update on Happy Flow**

Richard Camman, *Regional Director, Vision-Box, The Netherlands*

11.45 **Biometrics and the border – An update from down under**

Joe Franzi, *First Assistant Secretary, Identity and Biometrics Division, Department of Immigration and Border Protection, Australia*

ST JAMES ID IN FINANCIAL SERVICES

This session will cover how using biometrics can help financial institutions to manage mobile and digital ID, combat fraud and cyber attacks, authenticate customers and secure transactions, improve customer experience and gain competitive advantage, comply with regulations and address privacy and data protection concerns.

Session Chair: Joseph Atick, *Chairman, Identity Counsel International, USA*

11.05 **KEYNOTE ADDRESS: Liveness and usability – Making biometrics less awkward**

Andy Foote, *Director, Biometrics Institute; and VP, Innovation Group, Wells Fargo, USA*

11.30 **Myths, issues and challenges when adopting biometrics at banking institutions**

Fernando Garcia-Quismondo Garrido, *Innovation, Grupo Santander, Spain*

11.50 **Case study: Cloud-based unique identity as a service**

Daniel Bachenheimer, *PEG Member Biometrics Institute; and Technical Director, Emerging Technology Innovation – Unique Identity, Accenture, USA*

CONFERENCE PROGRAMME DAY TWO

Wednesday 19 October 2016

12.00 **PANEL DISCUSSION: How to create closer collaboration** 12.10

between carriers, airports/infrastructure providers and border agencies to create secure and efficient passenger travel?

Moderator: Glen Wimbury, *Director, Biometrics Institute and Border Systems Improvements, Border Force, UK*

Panelists

Richard Camman, *Regional Director, Vision-Box, The Netherlands*

Raoul Cooper, *Senior Design Manager, Airport Transformation, British Airways – Part of International Airlines Group*

Joe Franzi, *First Assistant Secretary, Identity and Biometrics Division, Department of Immigration and Border Protection, Australia*

Els Kindt, *Post-doctoral Legal Researcher & Lecturer, Katholieke Universiteit Leuven, Belgium*

Michael Hardin, *Deputy Director, Entry/Exit Transformation Office, Department of Homeland Security, US Customs and Border Protection*

Jason Holmes, *Director, Biometrics Institute; and Head of Border Force Relations & Special Assistance, Heathrow Operations – Customer Relations & Service, UK*

DISCUSSION SESSION: The mobile revolution and the protection of data: how to secure transactions

Moderator: Joseph Atick, *Chairman, Identity Counsel International, USA*

Panelists

Andy Foote, *Director, Biometrics Institute; and VP, Innovation Group, Wells Fargo, USA*

Fernando Garcia-Quismondo Garrido, *Innovation, Grupo Santander, Spain*

Ray Kimble, *Strategic Partner, GSMA, UK*

Michelle Salway, *Senior Director Sales – EMEA, Nok Nok Labs, UK*

12.50 **Lunch and Exhibition Viewing**

14.15 **WHITTLE LAW ENFORCEMENT AND FORENSIC FOCUS**

Case studies with a spotlight on forensics, will cover the INTERPOL South East Asia Forensic Project, and a look at the use of mobile police systems.

Session Chair: Jim Loudermilk, *Advisory Council, Biometrics Institute; and Senior Level Technologist Science & Technology Branch, Federal Bureau of Investigation (FBI) – CJIS Division, MITPS, USA*

14.20 **KEYNOTE ADDRESS: Update from the UK Forensic Science Regulator**
Gillian Tully, *Forensic Science Regulator UK*

14.40 **CASE STUDY: INTERPOL South East Asia Forensic Project**
Mark Branchflower, *Head of Fingerprint Unit, Police Forensics Sub-Directorate, INTERPOL, France*

15.00 **CASE STUDY: Good practice for mobile police systems**
Edwin Delwel, *Project Manager, Mobile Workspace, The National Police of the Netherlands, The Netherlands*
Frank Smith, *Chair, ENLETS Mobile, EU*

11.05 **ST JAMES SOCIAL AND ECONOMIC IMPACT THROUGH THE USE OF BIOMETRICS**

A look at the impact of biometrics in providing services in developing countries and in healthcare.

Session Chair: Daniel Bachenheimer, *PEG Member, Biometrics Institute; and Advanced Technology Architecture - Emerging Technology, Accenture, USA*

14.20 **KEYNOTE ADDRESS: UN activity in support of identity management – Why support to the development of one population register should be coordinated with support to all**
Niall McCann, *Lead Electoral Advisor, Bureau of Policy & Programme Support, United Nations Development Programme (UNDP), USA*

14.40 **The last mile: Challenges using fingerprints to provide services in developing countries**
Alexandra Grigore, *Co-Founder of Simprints, University of Cambridge – Simprints, UK*

15.00 **Biometrics in support of healthcare transformation**
Oudomsanith Bresson, *Senior Manager, Division Marketing, GIS Morpho (Safran), France*



CONFERENCE PROGRAMME DAY TWO

Wednesday 19 October 2016

- 15.20 **FBI Biometrics Program**
Jim Loudermilk, *Advisory Council, Biometrics Institute; and Senior Level Technologist Science & Technology Branch, Federal Bureau of Investigation (FBI) – CJIS Division, MITPS, USA*
- 15.40 **Questions and Discussion**
- 15.45 **Refreshment Break and Exhibition Viewing**
- 16.15 **WHITTLE RESEARCH AND INNOVATION**
A round up of some of the latest developments from leading research establishments around the world.
Session Chair: Kevin W. Bowyer, *Chair, Computer Science & Engineering, University of Notre Dame, USA*
- 16.20 **Deep learning for face recognition: Hype or not?**
Jonathon Phillips, *Electronic Engineer, National Institute of Standards & Technology, USA*
- 16.35 **Comparative human descriptors for soft biometrics in surveillance**
Mark Nixon, *Academic Staff, Information: Signals, Images, Systems Research Group, University of Southampton, UK*
- 16.50 **Advances in 3D face recognition**
Luuk Spreeuwers, *Associate Professor, Faculty for Electrical Engineering, Mathematics & Informatics, University of Twente, The Netherlands*
- 17.05 **Face recognition across the imaging spectrum**
Thirimachos Bourlai, *Assistant Professor (Biometrics/Biomedical), Center for Identification Technology Research – CITeR, USA*
- 17.20 **Questions and Discussion**
- 17.45 **End of Day Two | Exhibition Viewing and Drinks Reception**

CONFERENCE PROGRAMME DAY THREE

Thursday 20 October 2016

08.30 Registration

09.00 WHITTLE SECURING BIOMETRICS (TESTING, LIVENESS DETECTION AND COUNTER-SPOOFING)

Protecting the individual's data from potential attacks through liveness detection and other tools, as well as data management including its storage, access and retention, are critical topics and will be discussed in this session.

Several short talks on testing and vulnerability will be followed by a discussion session with the vulnerability experts.

Session Chair: Ted Dunstone, Head of BVAEG, Biometrics Institute and MD, Biometix, Australia

09.05 Measuring enterprise biometric system performance

Erik Bowman, Technical Fellow, Northrop Grumman Mission Systems, USA

09.20 Anti-spoofing for face recognition in real scenarios

Esteban Vazquez Fernandez, Biometrics Team Leader, Gradient, Spain

09.35 Evaluating facial liveness detection systems

Georgios Paraskevas, Head of R & D YOTI Ltd, UK

09.50 Odin program

Chris Boehnen, Senior Program Manager, Office of Smart Collections, Intelligence Advanced Research Projects Activity (IARPA), USA

10.05 AN AUDIENCE WITH THE BVREG: Levelling different threats and agreeing for which application which threats are most relevant and what to do about them

The Biometrics Institute Vulnerability Assessment Expert Group was formed in 2010 to raise awareness and share best-practice around the mitigation against vulnerabilities in biometric technologies. The Group consists of international experts in the field. This is a unique opportunity to engage with this Group face-to-face in one location.

Daniel Bachenheimer, PEG Member, Biometrics Institute; and Advanced Technology Architecture - Emerging Technology, Accenture, USA

Ted Dunstone, Head of BVAEG, Biometrics Institute and MD, Biometix, Australia

Patrick Grother, Biometric Standards and Testing Lead, National Institute of Standards & Technology (NIST), USA

Raul Sanchez-Reillo, Head of GUTI R&D Group, University Carlos III of Madrid, Spain

10.30 Refreshment Break

11.00 WHITTLE ID AT THE BORDERS

A second stream looking at the use of biometrics at the border.

Session Chair: Frank Smith, Chair, ENLETS Mobile, EU

ST JAMES ID IN FINANCIAL SERVICES

A second stream dedicated to using biometrics in financial institutions with a spotlight on solutions.

Session Chair: Andy Foote, Director, Biometrics Institute; and VP, Innovation Group, Wells Fargo, USA

11.05 KEYNOTE ADDRESS: Stronger and smarter information systems for borders and security

Richard Rinkens, Coordinator for Biometrics and Identity Management, European Commission, Belgium

11.05 How mobile device adoption is disrupting financial services as we know them

Oisin Lunny, Senior Market Development Manager, OpenMarket, UK

11.25 Biometric data in large EU IT systems in the areas of borders, visa and asylum – Fundamental rights implications

Ann Charlotte Nygard, Programme Manager, Freedoms & Justice Department, European Agency for Fundamental Rights (FRA)

11.25 From innovation to adoption: The journey for biometrics

Paul Trueman, SVP, Global Enterprise Risk and Security, MasterCard, UK

CONFERENCE PROGRAMME DAY THREE

Thursday 20 October 2016

- 11.45 **IOM, identity management and biometrics**
Florian Forster, Head, Immigration and Border Management, Department of Migration Management, International Organization for Migration, Switzerland
- 11.45 **Multi-modal biometric authentication to drive secure payments**
Anthony Gioeli, VP Marketing, Biometrics Products Division, Synaptics, USA
- 12.05 **Questions and Discussion**
- 12.05 **SOLUTION SPOTLIGHT: Using biometrics to defend against fraud while keeping customers happy**
Peter Reynolds, Chief Commercial Officer, AimBrain Solutions Ltd, UK
- 12.15 **Questions and Discussion**
- 12.30 **Lunch and Exhibition Viewing**
- 13.30 **WHITTLE BUILDING TRUST IN BIOMETRICS**
The privacy landscape is very fragmented. These expert updates bring delegates up to speed with current thinking and how the law needs to change to keep pace with technology.
Session Chair: Joanne Knight, PEG Member, Biometrics Institute; and Evidence of Identity (EOI) Standard Custodian, The Department of Internal Affairs – Te Tari Taiwhenua, New Zealand
- 13.30 **ST JAMES RESEARCH AND INNOVATION**
More of the latest developments from leading research establishments around the world.
Session Chair: Kevin W. Bowyer, Chair, Computer Science & Engineering, University of Notre Dame, USA
- 13.40 **The new EU Data Privacy Directive**
Sam De Silva, PEG Member, Biometrics Institute; and Partner, Nabarro LLP, UK
- 13.35 **Bridging the gap between forensics and biometrics**
Arun Ross, Associate Professor, Department of Computer Science and Engineering, Michigan State University, USA
- 14.00 **US privacy landscape**
Pam Dixon, PEG Member, Biometrics Institute and Executive Director, World Privacy Forum, USA
- 13.50 **Unassisted nail-to-nail fingerprint capture**
Chris Boehnen, Senior Program Manager, Office of Smart Collections, Intelligence Advanced Research Projects Activity (IARPA), USA
- 14.40 **Questions and Discussion**
- 14.05 **Post-mortem human iris recognition**
Adam Czajka, Assistant Professor, Warsaw University of Technology, Poland
- 14.20 **Big data pitfalls in 'found' operational biometric data**
Kevin W. Bowyer, Chair, Computer Science & Engineering, University of Notre Dame, USA
- 14.35 **How to improve interaction of the subject with the biometric system**
Stephen Elliott, Assistant Professor, Purdue University, USA
- 14.50 **Questions and discussion**
- 15.00 **GRAB AND ASK! COME AND SPEAK TO THE EXPERTS**
Grab another coffee and join this interactive session to ask any questions left unanswered or deep-dive into any of the topics you are interested in. This is an excellent opportunity for intimate discussion reviewing the themes covered over the three days. It will be facilitated by Biometrics Institute experts drawn from its Board of Directors, Advisory Council and Committees. Delegates can raise any of the questions that have not yet been answered or comment on future plans for the industry.
The Biometrics Institute is known for the high quality of debate it facilitates and this session will provide an exclusive forum for dialogue.
Session Chair: Isabelle Moeller, Chief Executive, Biometrics Institute
- 15.30 **CLOSING ADDRESS: Finding the bright spots**
Sue Black, Director, Centre for Anatomy & Human Identification, University of Dundee, UK
- 15.45 **Closing Remarks and Close of Conference**