

THE INSTITUTION OF ENGINEERING AND
TECHNOLOGY CONFERENCE ON

CRIME AND SECURITY

TRACKS:

- IT SECURITY
- DIGITAL RIGHTS MANAGEMENT
- IMAGING FOR CRIME DETECTION
AND PREVENTION

TUESDAY 13 – WEDNESDAY 14 JUNE 2006
Savoy Place, London, UK

<http://conferences.theiet.org/crime>

SPEAKERS INCLUDE

- Roger Cumming, Director, **NATIONAL INFRASTRUCTURE SECURITY
CO-ORDINATION CENTRE (NISCC)**
- Edward P Gibson, Chief Security Advisor, **MICROSOFT**
- Professor Gloria Laycock, **JILL DANDO INSTITUTE FOR CRIME SCIENCE**
- Andy Leigh, Information Security Strategy Manager, Technology Direction, **THE BBC**
- Alan Pratt, Director HOSDB, **THE HOME OFFICE**
- Eddie Bleasdale, Director, **NETPROJECT**

THE INSTITUTION OF ENGINEERING AND TECHNOLOGY
JOHN PINKERTON LECTURE AND DINNER 2006

E-SCIENCE AND CYBERINFRASTRUCTURE

PROFESSOR TONY HEY, VP SCIENTIFIC COMPUTING, MICROSOFT, USA

TUESDAY, 13 JUNE 2006 AT 6.00 PM
Savoy Place, London, UK
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EXAMINING EVIDENCE | of Crime Science
CHALLENGING BELIEFS
CUTTING CRIME

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WHO SHOULD ATTEND?

This conference provides a unique knowledge sharing and networking opportunity for anyone working in technical security-related fields, such as:

- Information Technology
- Publishing
- Government Departments
- Transport
- Academia
- Research and Development
- Control
- Security Services
- Law Enforcement
- Commercial Sales
- Retail
- Finance

Those with job titles such as:

- Chief Executive Officers
- Managing Directors
- Security Directors, Managers and Officers
- Network Managers and Administrators
- Software and Hardware Vendors and Developers
- SQL, Java and HTML Developers
- Project Managers and Project Directors

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TECHNOLOGY E-INFRASTRUCTURE, VISUAL
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On 31 March 2006, the IEE and IET formed a new organisation, the Institution of Engineering and Technology. The Institution welcomes involvement from and communication between all sectors of science, engineering and technology and places you at the heart of a global community of more than 150,000 engineers and technologists.

THE INSTITUTION OF ENGINEERING AND TECHNOLOGY CONFERENCE ON

CRIME AND SECURITY

PROGRAMME

TRACK 1 IT SECURITY 13-14 JUNE 2006

DAY 1

TUESDAY, 13 JUNE 2006

08.45 REGISTRATION AND REFRESHMENTS

09.15 CHAIRMAN'S INTRODUCTION

Neil Jarvis

Senior Information Risk Control Officer
UBS INVESTMENT BANK, UK

09.20 KEYNOTE ADDRESS: THE RULES OF LIFE – A HOLISTIC APPROACH TO SECURITY

- Law enforcement; governments; industry
- Technology – trustworthy computing and security development lifecycles
- People and the rules of life

Edward P Gibson
Chief Security Advisor
MICROSOFT, UK

SESSION 1: THE SECURE WEB:

09.50 FEDERATED IDENTITY: SECURING CITIZEN INCLUSION, TAKE-UP AND TRUST FOR ONLINE SERVICES

- What is Identity and why is it so important?
- What stops the take up of online services?
- How does Federation address these issues?

Drew Wagar
Identity Specialist
SUN MICROSYSTEMS, UK

10.15 THE PAYMENT CARD INDUSTRY DATA SECURITY STANDARD: IMPACT ON RETAIL INFORMATION TECHNOLOGY

- The PCI DSS is the card schemes' latest initiative to reduce card fraud
- It forces the retail industry into facing information security issues

- The potential costs of compliance could exceed the costs of chip & pin

John Duffin

Director of Security and EFT Consulting
THE LOGIC GROUP, UK

10.40 PCI DSS – CLOSING THE LOOP ON 'CARD NOT PRESENT' FRAUD

- PCI DSS has changed the way vendors and merchants view their networks and electronic processes. The stringent rules now imposed and subsequent vulnerability scans, will have an impact on their resources as they work towards meeting the security criteria
- These security requirements cover the majority of fundamental IT Security principals, therefore some will already be in place and others will require long term work to achieve
- Defining which issues to prioritise can be difficult. There are however, some security processes that can be implemented quickly and easily allowing the longer term projects to remain unchanged

Robin Docksey,
Information Security Manager
PLAY.COM, UK

11.05 REFRESHMENTS

SESSION 2: THE WIRELESS NETWORK: SAFE AS HOUSES OR JUST A YARD AT A TIME?

11.25 HOW SECURE IS WI-FI TODAY?

- Follow up of security studies performed in 2001 and the growth of wireless access points over the past few years
- The state of security with regard to devices
- Weaknesses in implemented wireless networks and is Wi-Fi Security worse than it was four years ago?

Neil Jarvis
Senior Information
Risk Control Officer

UBS INVESTMENT BANK, UK

11.50 CORPORATE AWARENESS AND WIRELESS SECURITY 80211X

- Aging systems – what you need to know
- Being aware of change

- Tools to capture a wireless network

Simon Gunning
Technical Director
 DIGILOG, UK

12.15 PERSONAL AREA NETWORKS: A HOLE IN YOUR POCKET!

- Bluetooth is everywhere but how secure is it?
- Why are devices still vulnerable to three year old vulnerabilities?
- Mobile phones exploits are old news, and synchronise PDA – where did my network go?

Mark Rowe
IT Security Consultant
 PENTEST LIMITED, UK

12.40 LUNCH

SESSION 3: TRUSTED COMPUTING

13.30 TRUSTED COMPUTING, INTEGRATING TRUST AND SECURITY INTO COMPUTER PLATFORMS

- Today's computer threats and attacks are still increasing – why?
- The Trusted Computing Group (TCG) creates standards to integrate trust and security into computing platforms
- T/C motherboards and system kernels contain a hardware based root of trust for enabling built in security with next generation trusted OS and applications

Hans Brandl
Senior Scientist Trusted Computing, Technical Marketing
 INFINEON, GERMANY

13.55 USING TRUSTED COMPUTING TO BUILD A SAFER WORLD

- The problems that motivated the industry coming together to work on Trusted Computing
- The key ideas and how they can be utilised by operating systems and applications
- Where we are in realising safer solutions

Martin Sadler
Director of Trusted Systems Lab
 HP, UK

14.20 TRUSTED COMPUTING OPPORTUNITIES AND THREATS

- The technology is here and it's not going away
- Developing your current tools
- Challenges to IT and compliance

Alan Cox
Open Source Developer
 CONSULTANT, UK

14.45 REFRESHMENTS

SESSION 4: PERSONNEL ID AND PROTECTING THE USER

15.05 THE REQUIREMENTS OF THE DATA PROTECTION ACT 1998

- The requirements of the seventh data protection principle and its interpretation
- Guidance issued by the Information Commissioner
- The special security issues for electronic communications

Stewart Room
Partner and Head of Data Protection Unit
 ROWE COHEN, UK

15.30 IDENTIFYING THE GLOBAL USER

- User identity issues within a truly global organisation
- The ever-present social engineering threat – countering 'soft' attacks on user identity
- Securing access to the virtual workplace - handhelds, portals, and other very remote access

Sian Birch
IT Security Manager
 THE ASSOCIATED PRESS, UK

15.55 THE IMPORTANCE OF EMPLOYEE AWARENESS TO INFORMATION SECURITY

- If security infrastructure is the engine, staff awareness is the oil
- The critical importance of engaging personnel
- Just how important investment can be to the success of a company's information security policies and infrastructure

Martin Smith
Managing Director
 THE SECURITY COMPANY LTD, UK

16.20 INFORMATION RIGHTS MANAGEMENT

- Enabling you the author to control how your documents and messages are used by your readers
- Security mechanisms typically break down once your document or email is transferred outside your network boundary
- Information Rights Management can enable you to project and enforce using MW and MSO

Stephen Lamb
Technical Security Lead
 MICROSOFT LTD, UK

16.45 PANEL DISCUSSION Session Speakers Open Forum

17.00 CLOSE OF SESSIONS

DAY 2

WEDNESDAY, 14 JUNE 2006

09.00 CHAIRMAN'S INTRODUCTION

Stephen Lamb
Technical Security Lead
 MICROSOFT LTD, UK

09.05 KEYNOTE ADDRESS: THE ELECTRONIC ATTACK ENVIRONMENT TO 2010

- Increasing risk in the information assurance space over the next few years
- The possible impact will affect more than just documents
- Sharing information about threats and vulnerabilities will improve the protection of systems

Roger Cumming
Director
 NATIONAL INFRASTRUCTURE SECURITY CO-ORDINATION CENTRE (NISCC), UK

SESSION 1: SECURITY DEVELOPMENTS IN THE CATHEDRAL AND BAZAAR

09.45 Ben Laurie
Director of Security
 THE BUNKER, UK

10.15 WHO DO YOU TRUST? AN OPEN SOURCE APPROACH TO SECURE E-BUSINESS

- Secure e-Government / e-Business new challenges to the way IT services are delivered
- The benefits and financial gains from e-services are such that the current lack of security cannot be allowed to continue
- The existing investment in IT must be supported

Eddie Bleasdale
Director
 NETPROJECT, UK

10.50 REFRESHMENTS

SESSION 2: PRIVACY – TICK THE BOX

11.10 WHY PHISH WHEN YOU CAN TRAWL?

- An emerging form of electronic crime
- Wireless hot spot development
- Secure network issues

Phil Cracknell
Director, Security Consulting Practice
 CAPGEMINI, UK

11.35 CHALLENGING COMPLIANCE

- What are we aiming for: the myriad of different regulations and legislation that we have to address
- How much security do we need to have?

- Working together to achieve compliance: we all face the same challenges, so let's communicate

Stuart King
Information Security Manager
REED ELSEVIER, UK

12.00 DATA PRIVACY: FICTION OR REALITY? HOW MUCH PRIVACY ARE INDIVIDUALS ENTITLED TO UNDER THE LAW?

- Is there a law of data privacy?
- When does it apply?
- How far does it go?
- Do companies need to be concerned?
- What should you be doing to comply?

Scott Singer
Partner
DENTON WILDE SAPTE, UK

12.25 LUNCH

SESSION 3: WRITING SOFTWARE – SECURING CODING GOOD PRACTICE

13.15 David Litchfield
Managing Director
NGS, UK

13.40 SOFTWARE SECURITY – WHERE ARE WE GOING WRONG?

- A look at why the current development model is flawed
- How to introduce security into the development lifecycle
- How to persuade management and developers that security is important

Daniel Cuthbert
Chairman, London Chapter
OWASP, UK

14.05 MYSQL SECURITY: BEST PRACTICES

- How to operate a MySQL database in a secure way
- Describing some of security mechanisms of MySQL (e.g. access control system, security features like archive tables, encryption)
- Best practice for MySQL

Ivan Zoratti
Sales Engineer
MYSQL AB, UK

14.30 REFRESHMENTS

SESSION 4: THE HEALTH OF COMPUTERS VIA NETWORK ACCESS PROTECTION

14.50 HOW TO STAY SECURE IN A NETWORK WITHOUT PERIMETERS

- Where are the perimeters in today's networks?
- What is risk? What are the threats? Security is about managing risk and we will consider how a business should start to evaluate their risk

- What are the important areas to focus on? Throughout the session I will give practical examples of how Cisco approaches these issues internally

Paul King
Senior Security Advisor
CISCO, UK

15.15 LATEST THREATS IN MALWARE

- Cybercriminals are joining forces, launching attacks using combined technology
- Find out how spyware has grown as a proportion of all new threats
- Discover how and why malware authors have turned away from viruses and worms to targeted Trojan horse attacks

Graham Cluley
Senior Technology Consultant
SOPHOS, UK

15.40 ENDPOINT SECURITY – THE SOFT CENTRE INSIDE THE HARD SHELL

- How to abuse Windows in the 21st century
- Common mistakes we should have learned to avoid
- Tips for not making the same mistakes again

Steve Knight
Information Security Officer
HERBERT SMITH LLP, UK

SESSION 5: CONTROLS AND DEVELOPMENTS IN PERSONAL IDENTIFICATION

16.05 IDENTIFICATION OF INDIVIDUALS USING E-PASSPORTS

- How can this new technology be used commercially?
- What benefits are there across government?
- How can this influence joined up government?

Bill Perry
Senior Consultant,
e-Passport Program
UK PASSPORT SERVICE, UK

16.30 RFID SECURITY

- A brief explanation of how RFID and NFC works
- An outline of the types of threats which may apply and how they can be countered.
- The tag in your phone, new security threats and how they might be countered

Phil Royston
Project Manager
INNOVISION RESEARCH AND TECHNOLOGY, UK

16.55 CHAIRMAN'S CLOSING REMARKS

17.00 CLOSE OF CONFERENCE

TRACK 2

DIGITAL RIGHTS MANAGEMENT

TUESDAY, 13 JUNE 2006

08.45 REGISTRATION AND REFRESHMENTS

09.15 OPENING REMARKS FROM THE CHAIR

Jim Wilkinson
Chief Scientific Officer
SONY BPRL, UK

09.20 KEYNOTE ADDRESS: UNDERSTANDING THE PRINCIPLES AND HISTORY FOR CONTENT PROTECTION

- Is there a need for DRM, why?
- What is the principle for protection of content?
- Achieving availability and confidentiality

Andy Leigh
Information Security Strategy Manager,
Technology Direction
THE BBC, UK

09.50 THE DRM TOOLBOX

- Understanding the technology
- What choices do you have in the market today
- Beating the jargon game

Jim Wilkinson
Chief Research Scientist
SONY BPRL, UK

10.15 THE GOVERNMENT PERSPECTIVE

- Is there a problem using DRM?
- Is there a solution for DRM?
- Which is Government – the problem or the solution?

Adrian Brazier
Assistant Director, Communications
& Content Industries Unit
DTI, UK

10.40 PIRACY HURTS

- The need to police and protect your own technology
- Identifying the pirates and hackers- both Commercial and Hobbyist
- Department reputations have to be earned and maintained- Case examples

Len Withall
Director of Security
NDS, UK

11.05 REFRESHMENTS

11.25 THE LEGAL RISK AND BENEFITS OF DEPLOYING DRM

- Why a technical solution is practical
- Risk – what is it to you
- Is there a Global solution or just a local choice?

Myles Jelf
Partner
BRISTOWS, UK

**11.50 THE DIGITAL MEDIA LANDSCAPE
ADJUSTING AND DEVELOPING
YOUR NEEDS**

Simon Wakefield
DELOITTE, UK

**12.15 PANEL DISCUSSION
Session Speakers
Open Forum**

12.30 LUNCH

**13.30 BALANCED DRM SOLUTIONS FOR
AUDIOVISUAL CONTENT**

- Development of legal alternatives and new content offerings
- Technological measures, copyright exceptions and interoperability
- Cooperation with Internet Service Providers

Ted Shapiro
*Deputy Managing Director, Vice President &
General Counsel - Europe*
MOTION PICTURE ASSOCIATION, BELGIUM

**13.55 DIGITAL RIGHTS MANAGEMENT: THE
CONSUMER INTEREST**

- Recognising both the interests of the creators and the interests of the consumer
- Incorporating consumer rights in copyright legislation
- Ensuring that the future development of intellectual property law is based on an independent assessment of the cost and benefits to society as a whole

Jill Johnstone
Director of Policy
NATIONAL CONSUMER COUNCIL, UK

**14.20 THE ROLE OF POLICY-MAKERS AND
REGULATORS IN DRM - PROMOTION OR
REGULATION?**

- The economics of DRM
- What are the problems?
- How should the regulators and policy-makers respond?

David Lancefield
Director in Advisory Practice
PRICEWATERHOUSECOOPERS, UK

14.45 REFRESHMENTS

**15.05 DRM AND CREATING THE SECURE MEDIA
PRODUCTION ENVIRONMENT**

- Building rights and usage management into collaborative environments for film, music and TV production
- Digital watermarking
- Secure file storage and transfer

Cliff Smith
European Manager
AVID, UK

**15.30 THE RELATIONSHIP OF BUSINESS,
TECHNICAL AND LEGAL ISSUES: WHERE
THE DRIVERS LIE**

- How investment for new innovative content is secured, especially from a free to air PSB perspective

- Alternative business models, now and in the future e.g. micro payments
- Seeding and maintaining a vibrant cultural reserve for the future

Jane Devlin
*Manager, Research & Development,
Business & Partnerships*
THE BBC, UK

**15.55 STANDARDS FOR BROADCAST
CONTENT PROTECTION**

- Emerging standards
- DVB, CPCM and the developments of change
- Updating content protection

Mark Jeffrey
*Program Manager,
European Media Standards*
MICROSOFT CORPORATION,
SWITZERLAND

**16.20 PANEL DISCUSSION
Session Speakers
Open Forum**

16.55 CHAIRMAN'S CLOSING REMARKS

17.00 CLOSE

TRACK 3 IMAGING FOR CRIME DETECTION AND PREVENTION (ICDP 2006) 13-14 JUNE 2006

DAY 1
TUESDAY, 13 JUNE 2006

08.45 REGISTRATION AND REFRESHMENTS

**09.15 OPENING REMARKS FROM
THE CHAIR**

Sergio Velastin
KINGSTON UNIVERSITY, UK

**09.20 KEYNOTE ADDRESS: WHAT'S THE
PROBLEM?**

- How to identify and define crime and disorder problems
- Examples of generic solutions – and what works
- Looking forward – what might we need by 2050?

Professor Gloria Laycock
JILL DANDO INSTITUTE FOR CRIME
SCIENCE, UK

**SESSION 1:
DIGITAL CCTV AND VISUALISATION:
FROM SUPPLY TO OPERATION**

**09.50 PRACTICAL APPLICATIONS OF DIGITAL
TECHNOLOGY IN CCTV**

- The deployment and operation of digital CCTV - what is "digital CCTV" today?
- Practical considerations for digital CCTV users and best practice advice
- Using digital images as evidence

Gary James
Business Development Director
VISIMETRICS (UK) LTD, UK

**10.15 VISUALISATION IN SECURITY
CONTROL ROOMS**

- Alternative solutions to save space, money and operational costs
- Ergonomics: moving to PCs with IP based solutions
- Visual automation: an often forgotten aspect to operational automation
- Networked visualisation – a new visualisation concept to ensure faster, better decisions

Robert Wu
*Head of Market and Business
Development*
BARCO CONTROL ROOMS,
BELGIUM

10.40 PRACTICAL USES OF IMAGING FOR CRIME DETECTION AND PREVENTION

- Examples of daily occurrences such as aggression, unusual road traffic etc
- ANPR and its relation to CCTV for prevention, detection, intelligence and retrospective investigation
- ASB, targeting hotspots and how to deal with finite response resources

Lee Walters
Operations Manager
LIVERPOOL CITY WATCH CCTV, UK

11.05 REFRESHMENTS

11.25 SESSION 2: PRESENTATIONS SELECTED FROM THE CALL FOR PAPERS

12.40 LUNCH AND POSTERS

SESSION 3: INDUSTRIAL RESEARCH & DEVELOPMENT

13.30 THE ISSUES AND DEVELOPMENTS IN SURVEILLANCE IMAGING

- Sensor and multimodal updates
- Processing and how sensors fit the process
- Applications CCTV/AMPR multi sensor update

Dave Barrett
Technical Lead, Integrated Surveillance
QINETIQ, UK

13.55 SMART CAMERA DESIGNS AND APPLICATIONS

- An ideal smart camera design
- Analysis of a few vision based real time embedded security
- Importance of DSP architectural knowledge for optimal real time performance

Rita Chattopadhyay
Project Manager, Embedded Systems for Computer Vision
SIEMENS CORPORATE TECHNOLOGY, INDIA

14.20 MACHINE VISION SEARCH TOOLS IN SURVEILLANCE APPLICATIONS

- Searching for "organic" image content
- Demonstration of gender classification
- Demonstration of ANPR and vehicle classification
- So what could be done with this technology?

David Hearn
MD
FIRSTSIGHT VISION, UK

14.45 REFRESHMENTS

15.05 SESSION 4: PRESENTATIONS SELECTED FROM THE CALL FOR PAPERS

16.45 PANEL DISCUSSION Session Speakers Open Forum

17.00 CLOSE OF SESSIONS

DAY 2 WEDNESDAY, 14 JUNE 2006

09.00 OPENING REMARKS FROM THE CHAIR

Sergio Velastin
KINGSTON UNIVERSITY, UK

09.05 KEYNOTE ADDRESS

Alan Pratt
Director HOSDB
THE HOME OFFICE, UK

SESSION 1: DETECTION AND AUTHENTICATION

09.35 DIGITAL WATERMARKING AND AUTHENTICATION FOR CRIME SCENE ANALYSIS

- What is digital watermarking and authentication - an overview of this new technology
- Explain the different types of watermarking techniques – robust, fragile and semi-fragile watermarks
- Applications for law enforcement and crime scene analysis

Anthony T S Ho
Professor and Chair of Multimedia Security
UNIVERSITY OF SURREY, UK

10.00 THE USE OF KNOWLEDGE AND REASONING TECHNIQUES FOR VIDEO ANALYSIS AND UNDERSTANDING

- Video surveillance applications
- How knowledge and its relation to visual clues can be represented and processed
- The planning and deployment of video processes (operators)
- Recognition of video events

Dr Monique Thonnat
Scientific Leader, ORION Project
INRIA, FRANCE

10.25 ADVANCES IN THROUGH WALL RADAR FOR SEARCH, RESCUE AND SECURITY APPLICATIONS

- User requirements for different through wall applications
- Factors and system performance results
- Current developments alongside areas of research that are being undertaken
- The latest research findings and developments

Hugh Burchett
Imaging Detection and Tracking Group Leader
CAMBRIDGE CONSULTANTS, UK

10.50 REFRESHMENTS

11.10 SESSION 2: PRESENTATIONS SELECTED FROM THE CALL FOR PAPERS

12.25 LUNCH AND POSTERS

SESSION 3: VIDEO SURVEILLANCE CHALLENGES

13.15 CHALLENGES OF FUTURE VIDEO SURVEILLANCE SYSTEMS: AN INDUSTRIAL PERSPECTIVE

- Utilising the synergies between different application domains
- The three major design goals for real-time video surveillance systems
- The importance of platforms, embedded processing and network intelligence for future video surveillance systems

Dr Wolfgang Niem
Project Manager Video Content Analysis
BOSCH RESEARCH, GERMANY

13.40 HOW TO INTEGRATE VIDEO ANALYTICS INTO A CITY CENTRE CCTV MONITORING CENTRE

- Overview of the perceptak video analytics system
- System architecture - how to integrate without disrupting the existing environment
- The user's experience - how video analytics can improve CCTV monitoring effectiveness

Nick Hewitson
MD
SMARTCCTV, UK
Ray Stead
CCTV Manager, Economy, Culture & Community Safety
PORTSMOUTH CITY COUNCIL, UK

14.05 THE CHALLENGE OF TAKING INNOVATIVE TECHNOLOGY INTO THE SURVEILLANCE MARKET

- The traditional Roke Manor model of technology exploitation (e.g. Hawkeye)
- Features of the surveillance market from a technology perspective and the requirement to change the exploitation model
- The challenges of exploitation in a technical and a business sense - finding partners, quantifying performance, educating end users etc

Emma Brassington
Vision Processing Group Manager
ROKE MANOR, UK

14.30 REFRESHMENTS

14.50 SESSION 4: PRESENTATIONS SELECTED FROM THE CALL FOR PAPERS

16.30 PANEL DISCUSSION Session Speakers Open Forum

16.55 CHAIRMAN'S CLOSING REMARKS

17.00 CLOSE OF CONFERENCE

THE INSTITUTION OF ENGINEERING AND TECHNOLOGY
JOHN PINKERTON LECTURE AND DINNER 2006

E-SCIENCE AND CYBERINFRASTRUCTURE

PROFESSOR TONY HEY, VP SCIENTIFIC COMPUTING,
MICROSOFT, USA

SAVOY PLACE, LONDON, UK: TUESDAY, 13 JUNE 2006 AT 6.00 PM

SYNOPSIS

The Internet was the inspiration of J C R Licklider when he was at the Advanced Research Projects Agency in the 1960s. In those pre-Moore's Law days, Licklider imagined a future in which researchers could access and use computers and data from anywhere in the world. He funded an elite group of Computer Science Departments in the USA – which he called his 'InterGalactic Computing Group' - to explore how to realise his vision. Today, as everyone knows, the killer applications of the Internet were email in the 1970s and Tim Berners-Lee's World Wide Web in the 1990s, which was developed initially as a collaboration tool for the particle physics academic community. In the future, frontier research in many fields will increasingly require the collaboration of globally distributed groups of researchers needing access to distributed computing, data resources and support for remote access to expensive, multi-national specialised facilities such as telescopes and accelerators or specialist data archives. There is also a general belief that an important road to innovation will be provided by multi-disciplinary and collaborative research – from systems biology and bio-informatics to earth systems science and chemo-informatics. In the context of science and engineering, this is the 'e-Science' agenda. Robust middleware services will be widely deployed on top of the academic research networks to constitute the necessary 'Cyberinfrastructure' to provide a collaborative research environment for the global academic community.

This talk will review the elements of this vision and describe how scientists and engineers are collaborating with computer scientists and the IT industry to create the new e-Infrastructure. When mature, it is clear that such an infrastructure will support the creation of dynamic 'Virtual Organisations' and collaborative environments for many types of application in both academia and industry. This new Cyberinfrastructure will clearly be of relevance to more than just the research community, and will support both the e-learning and digital library communities as well as many business applications. This technology is also likely to change the nature of scientific publication with institutional or subject repositories linked to digital archives containing the primary research data.

ABOUT THE SPEAKER

As corporate vice president for technical computing, Tony Hey coordinates efforts across Microsoft Corporation to collaborate with the global scientific community. He is a top researcher in the field of parallel computing, and his experience in applying computing technologies to scientific research helps Microsoft work with researchers worldwide in various fields of science and engineering.

Before joining Microsoft, Hey worked as head of the School of Electronics and Computer Science at the University of Southampton, where he helped build the department into one of the pre-eminent computer science research institutions in England. Since 2001, Hey has served as director of the UK's e-Science Initiative, managing the government's efforts to provide scientists and researchers with access to key computing technologies.

Hey is a fellow of Royal Academy of Engineering and has been a member of the European Union's Information Society Technology Advisory Group. He has also served on several national committees in the United Kingdom, including committees of the Department of Trade and Industry and the Office of Science and Technology. In addition, Hey has advised countries such as China, France, Ireland and Switzerland to help them advance their scientific agenda and become more competitive in the global technology economy. Hey received the award of Commander of the Order of the British Empire for services to science in the 2005 New Year Honours List.

Hey is a graduate of Oxford University, with both an undergraduate degree in Physics and a doctorate in Theoretical Physics.

DINNER

A dinner, which will be served at the Institution's Riverside Room, offering spectacular views over the River Thames, will follow the lecture. Why not take the opportunity to meet fellow engineers and share experiences with those with similar interests in an informal setting? Partners, colleagues and clients are all very welcome to continue a stimulating evening at a very reasonable price.

THE INSTITUTION OF ENGINEERING AND TECHNOLOGY JOHN PINKERTON LECTURE

The Institution of Engineering and Technology John Pinkerton Lecture is held in commemoration and honour of this pivotal engineer in the development of the Lyons Electronic Office (LEO) - the world's first computer designed for business applications.

The Lectures take a perspective based on computer engineering but broad enough to invoke parallels from elsewhere, and explore the steps along the path from innovation to application. Each lecture aims to identify the processes involved in such a transition, analyse their ingredients and determine how they can be replicated.

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FORTHCOMING EVENTS

VIE 2006
26-28 September 2006: Leela Palace, Bangalore, India
Web: <http://conferences.iee.org/vie2006/>

The Institution of Engineering and Technology
Multimedia Conference 2006
28 – 30 November 2006: Savoy Place, London, UK
Web: www.iee.org/pn/multimediacomms/

CONDITIONS OF BOOKING

Forms should be received no later than Tuesday, 6 June 2006. Please note that reservations cannot be made by telephone. All participants registering less than one week before the date of the event are advised to bring a copy of their registration form with them.

CANCELLATION

In the event of cancellation and provided that written notice is received seven days prior to the event, a refund of 50% of the total fee will be made. If no notice of cancellation is received, no refund can be made. The Institution of Engineering and Technology reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. Details of event changes or cancellations are available by phoning +44 (0) 1438 765 650.

NAME SUBSTITUTIONS

Name Substitutions are accepted at any time by fax or email. Fax: +44 (0) 1438 765 659 Email: eventsa1@theiet.org

SUPPORTING ORGANISATIONS

Members of supporting organisations who can provide evidence of their affiliation will be admitted at members' rates.

DELEGATES WITH SPECIAL NEEDS

The Institution of Engineering and Technology aims to offer fully accessible events to all its delegates. Please help us to accommodate any individual needs that you may have by attaching a note to the registration form. We will contact you to discuss this as necessary.

For more details and further updates see <http://conferences.theiet.org/crime>



A new Institution from the IEE and IIE

THREE EASY WAYS TO REGISTER

- 1 Online: <http://conferences.theiet.org/crime> for the conference and www.iee.org/events/pinkerton.cfm for the lecture
- 2 Fax: +44(0)1438 765659
- 3 Post: Finance Dept, The Institution of Engineering and Technology, PO Box 96, Stevenage, Herts, SG1 2SD

Tuesday 13 – Wednesday 14 June 2006
 Savoy Place, London, UK

1. YOUR DETAILS One person per form (forms may be photocopied). All fields are mandatory.

Title	First Name(s)	Surname
Job Title	Company Name	
Company Address		
	Postcode	Date of Birth <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Email	Telephone	Fax
Institution Membership Number (if applicable)	Dietary or other requirements	
Member? Yes <input type="checkbox"/> No <input type="checkbox"/>	I heard about this event by: Flyer in post <input type="checkbox"/> Email <input type="checkbox"/> Advert (Institution publication) <input type="checkbox"/> Advert (other) <input type="checkbox"/> Website <input type="checkbox"/> Other <input type="checkbox"/>	

DATA PROTECTION Information provided by you on this form will be processed by the Institution of Engineering and Technology and used for the purpose of the goods and services ordered by you, and for billing accounts. If you are an Institution member and do not want to hear about similar events and services provided by the Institution, please tick here If you are not an Institution member and would like to hear, by post or electronic means, about similar events and services provided by the Institution, please tick here Do you consent to your details being passed to the event sponsor(s)? Yes No

2. EVENT REGISTRATION FEES

CRIME AND SECURITY SEMINAR		
MEMBER FEES	PLEASE TICK	FEE
Member – 2 day registration	<input type="checkbox"/>	£345.00 (+ £60.38 VAT= £405.38)
Member – 1 day registration	<input type="checkbox"/>	£195.00 (+ £34.13 VAT= £229.13)
STUDENT MEMBER FEES	PLEASE TICK	FEE
Student – 2 day registration	<input type="checkbox"/>	£150.00 (+ £26.25 VAT= £176.25)
Student – 1 day registration	<input type="checkbox"/>	£125.00 (+ £21.88 VAT= £146.88)
NON MEMBER FEES	PLEASE TICK	FEE
Non Member – 2 day registration	<input type="checkbox"/>	£395.00 (+ £69.13 VAT= £464.13)
Non Member – 1 day registration	<input type="checkbox"/>	£245.00 (+ £42.88 VAT= £287.88)

PLEASE SELECT THE TRACK(S) YOU WISH TO ATTEND

- IT Security (13-14 June)
- Digital Rights Management
- ICDP (13-14 June)

THE IET JOHN PINKERTON LECTURE & DINNER		
MEMBER FEES	PLEASE TICK	FEE
Lecture only	<input type="checkbox"/>	FREE TO ATTEND
Dinner with Wine*	<input type="checkbox"/>	£34.04 (+ £5.96 VAT = £40.00)
Dinner without Wine*	<input type="checkbox"/>	£25.53 (+ £4.47 VAT = £30.00)
NON MEMBER FEES	PLEASE TICK	FEE
Lecture Only	<input type="checkbox"/>	FREE TO ATTEND
Dinner with Wine	<input type="checkbox"/>	£42.55 (+ £7.45 VAT = £50.00)
Dinner without Wine	<input type="checkbox"/>	£34.04 (+ £5.96 VAT = £40.00)

* Members are entitled to bring one dinner guest at the member rate

Name of Guest

I wish to be seated near (dinner only)

Guest's dietary or other requirements

3. PAYMENT Payment must accompany this registration form. Registration will only be confirmed on receipt of the full payment.

TOTAL PAYMENT £

Card number

Valid from date Expiry date

Issue Number 3 or 4 - digit Card Security Code (CSC)

Card holder's name

Address of card holder (if different from above)

Postcode

PLEASE INDICATE THE METHOD OF PAYMENT

Payment via purchase order is not accepted.

Cheques should be made payable to "IET" and crossed.

Cheque Visa Mastercard AMEX Switch

BACS

Bank Transfers (BACS) can be made to Barclays Bank Plc, UK Bank, 1 Churchill Place, London E14 5HP. Account No: 50480606 Sort code: 20-65-82.

IBAN GB53 BARC 2065 8250 4806 06. A copy of the draft must accompany this form.

The Institution of Engineering and Technology Conference on Crime and Security Organisers

The Institution of Engineering and Technology, Event Services, Michael Faraday House, Six Hills Way, Stevenage, Hertfordshire, SG1 2AY, UK

Tel: +44 (0) 01438 765648 Fax: +44 (0) 01438 765659 Email: events1@theiet.org

Web: <http://conferences.theiet.org/crime> www.iee.org/events/pinkerton.cfm