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

E-SCIENCE AND CYBERINFRASTRUCTURE

PROFESSOR TONY HEY, VP SCIENTIFIC COMPUTING, MICROSOFT, USA

TUESDAY, 13 JUNE 2006 AT 6.00 PM
Savoy Place, London, UK
www.iee.org/events/pinkerton.cfm
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

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

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 synchronize 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

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

SESSION 4: PERSONNEL ID AND PROTECTING THE USER
16 45 PANEL DISCUSSION
Session Speakers
Open Forum

17.00 CLOSE OF SESSIONS

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

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?
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

Phil Royston
Project Manager
INNOVATION RESEARCH AND TECHNOLOGY, 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

Len Withall
Director of Security
NDS, UK

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

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

15.55 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

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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
Emma Brassington
Vision Processing Group Manager
ROKE MANOR, UK

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

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 perceptrak 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

14.45 SESSION 4: PRESENTATIONS SELECTED FROM THE CALL FOR PAPERS

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15.45 PANEL DISCUSSION
Session Speakers
Open Forum

16.45 PANEL DISCUSSION
Session Speakers
Open Forum

17.00 CLOSE OF CONFERENCE

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SYNOPSIS
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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. He 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 involve 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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CRIME AND SECURITY

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

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<td>Member?</td>
<td>Yes ☐ No ☐ I heard about this event by: Flyer in post ☐ Email ☐ Advert (Institution publication) ☐ Advert (other) ☐ Website ☐ Other ☐</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Event</th>
<th>Member Fees</th>
<th>Non Member Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CRIME AND SECURITY SEMINAR</strong></td>
<td>Member – 2 day registration</td>
<td>£345.00 (+ £60.38 VAT= £405.38)</td>
</tr>
<tr>
<td></td>
<td>Member – 1 day registration</td>
<td>£195.00 (+ £34.13 VAT= £229.13)</td>
</tr>
<tr>
<td><strong>STUDENT MEMBER FEES</strong></td>
<td>Student – 2 day registration</td>
<td>£150.00 (+ £26.25 VAT= £176.25)</td>
</tr>
<tr>
<td></td>
<td>Student – 1 day registration</td>
<td>£125.00 (+ £21.88 VAT= £146.88)</td>
</tr>
<tr>
<td><strong>NON MEMBER FEES</strong></td>
<td>Non Member – 2 day registration</td>
<td>£395.00 (+ £69.13 VAT= £464.13)</td>
</tr>
<tr>
<td></td>
<td>Non Member – 1 day registration</td>
<td>£245.00 (+ £42.88 VAT= £287.88)</td>
</tr>
<tr>
<td><strong>THE IET JOHN PINKERTON LECTURE &amp; DINNER</strong></td>
<td>Lecture only</td>
<td>FREE TO ATTEND</td>
</tr>
<tr>
<td></td>
<td>Dinner with Wine*</td>
<td>£34.04 (+ £5.96 VAT = £40.00)</td>
</tr>
<tr>
<td></td>
<td>Dinner without Wine*</td>
<td>£25.53 (+ £4.47 VAT = £30.00)</td>
</tr>
<tr>
<td><strong>NON MEMBER FEES</strong></td>
<td>Lecture Only</td>
<td>FREE TO ATTEND</td>
</tr>
<tr>
<td></td>
<td>Dinner with Wine</td>
<td>£42.55 (+ £7.45 VAT = £50.00)</td>
</tr>
<tr>
<td></td>
<td>Dinner without Wine</td>
<td>£34.04 (+ £5.96 VAT = £40.00)</td>
</tr>
</tbody>
</table>

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

TOTAL PAYMENT £

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 BABC 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: eventsa1@theiet.org
Web: http://conferences.theiet.org/crime  www.iee.org/events/pinkerton.cfm

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