Preliminary Program 2007

41st Annual IEEE International Carnahan Conference on Security Technology

October 8-11, 2007
Hampton Inn, Ottawa, Ontario

SPONSORED BY

 IEEE Lexington Section, USA

 IEEE Aerospace and Electronic Systems Society, USA

 Chung Shan Institute of Science, Taiwan, ROC

 National Central University, Taiwan, ROC

in association with

 Sandia National Laboratories

 Senstar Stellar®

www.carnahanconference.com

PURPOSE

This international conference is designed to address the research and development aspects of electronic security technology. It provides a forum for the exchange of ideas and dissemination of information on new and existing technology. Conference participants are encouraged to consider the impact of their work on society. The Carnahan Conference also provides a basis for long-range support and assistance to authorities and agencies responsible for security, safety and law enforcement in the use of available and future technologies. A conscious effort will be made to communicate the significance of developments to other interested groups. Liaison is also maintained with professional societies and information media not related to engineering.

ABOUT THE VENUE

The Hampton Inn and Conference Center is Ottawa's newest conference facility. It offers 24,000 square feet of conference space, a captivating 90-foot windowed atrium, two spectacular theatres and five boardrooms. This state-of-the-art facility features an architectural design that highlights the unique landscape of Canada's National Capital. The Hampton Inn offers complimentary breakfast, high speed internet, indoor parking, exercise rooms, an indoor pool and whirlpool. The facility honours Hilton points.

ABOUT OTTAWA

Come and experience one of the most beautiful capitals of the world! Steeped in heritage and culture, with a splash of pomp and pageantry, Ottawa offers visitors plenty in the areas of culture, history and natural outdoor attractions. Experience any one of our 30 museums, 50 galleries and theatres, numerous night clubs, fine dining establishments, heritage sites, festivals or sports events. Our fine city also offers world-class shopping, stunning architecture, a range of cultural activities, tours and natural wonders – all of which offer friendly people.

As a global technology and business centre, Ottawa has more than 1,500 companies involved in key growth sectors such as telecommunications, software, photonics, semiconductors, defense and security, life sciences, tourism, wireless technologies, film and video, multimedia, professional services and contact centres. The region also benefits from the entry of new seed industry sectors such as biophotonics, environmental technologies, electronic pay systems, and micro electromechanical systems (MEMS).

You will also experience Ottawa's different cultures, languages and religions, which reflect our diverse multicultural community. In addition to the technical sessions at this year's conference, plans are underway for additional activities.

For conference delegates a Conference Tour is scheduled for October 11, 2007 at 12:30p.m. which includes transportation and lunch. Details to follow on the conference website.

Partner Program Planned activities:
- A visit to the Governor's General residence "Rideau Hall"– the home and workplace of every Governor General since Confederation in 1867, Rideau Hall is a 7- acre oasis of beautifully landscaped grounds.
- Parliament Hill is a must see for visitors to the Nation's capital. The Parliament buildings are rich in history and architecture. This tour includes a visit to the Peace Tower which gives a spectacular view of the city.
- Fall Foliage Tour - Golds, ruby reds and fiery oranges announce the arrival of fall with breathtaking views as you travel through the magnificent Gatineau Hills, renowned for their landscapes and fall colors.
- Pricing and further information on all activites will be available in August on the conference website.
- Registration deadline: September 20, 2007.

Other activities:
- The Annual Carnahan Golf Tournament will be held at the The Meadows Golf and Country Club on October 8, 2007. Everyone is welcome to participate.
- The Annual Banquet is being held at the Canada Aviation Museum which is recognized as having the most extensive aviation collection in Canada and ranks among the best in the world. A tour will be included.
- Ottawa is home to 2007 NHL Stanley Cup Finalists, the Ottawa Senators. Information and pricing to attend a game on Thursday, October 11th at Scotiabank Place will be available in the near future on the Carnahan website. (Subject to availability.)

Hampton Inn and Conference Center
Ottawa, Ontario

ICCST EXECUTIVE COMMITTEE

Alfonso Bilbao, Security Consultant, SPAIN

Hsia-Ling Chiang, ROC

Ron Clifton, International Datacasting, CANADA

Nigel Custance, Home Office, UK

Gene Greneker, Georgia Tech Research Institute, USA

Nigel Grist, Canberra, AUSTRALIA

Michel Jonckheere, Consultant, Ottawa, CANADA

Rick Lazarick, CSC Identy Labs, USA

Daniel A. Pritchard, Sandia National Laboratories, USA

Brian G. Rich, Senstar-Stellar, CANADA

Larry Sanson, Consultant, USA

Clifton Smith, Edith Cowan University, AUSTRALIA

G. Dan Smith, TSWG, USA

Dr. Mark Stroud, HOSDB, UK

Dr. Adrian Schwaninger, SWITZERLAND

Dr. Gordon Thomas, Consultant, UK

Robert Trebits, AESS Board of Governors, USA

Jack D. Veatch, SAIC, USA

Thomas M. Wood, GSA, USA

So-Lin Yen, Ministry of Justice, ROC

International Advisory Committee

Pieter de Bruyne, Consultant, SWITZERLAND

Miguel Angel Ferrer, E.S.T.I., GRAN CANARIA, SPAIN

Milos Klima, Czech Technical University, CZECH REPUBLIC

Gerry Levett, G. Levett and Associates, CANADA

Max Robinson, The Nottingham Trent University, UK

For Further Information

Within the United States

Larry D. Sanson
Chairman, IEEE ICCST
186 Woodwalk Court
Nicholasville, KY 40356, USA
TEL: (859) 223-9840 FAX: (859) 224-3225
ldsanson@msn.com

Daniel A. Pritchard
Sandia National Laboratories
Security Systems and Technology Center
P.O. Box 5800 MS 0780
Albuquerque, NM 87185-0780, USA
TEL: (505) 844-7444 FAX: (505) 844-5569
dpritch@sandia.gov

Gene Greneker
Georgia Tech Research Institute
SEAL, CCRF
7220 Richardson Road
Smyrna, GA 30080, USA
TEL: (770) 528-7744 FAX: (770) 528-7728
gene.greneker@gtri.gatech.edu

Rick Lazarick
8 Blackwood Drive
West Trenton, NJ 08628
TEL: (609) 883-6767; (717)-909-5105;
809-883-1234 FAX: (609) 883-6767
rlazarick@csc.com

John D. "Jack" Veatch
Science Applications International Corporation
8301 Greensboro Drive, MS 8-6
McLean, VA 22102, USA
TEL: (703) 676-6429 FAX: (703) 676-6439
john.d.veatch@saic.com

For Further Information (Con't)

North and South America (Except USA)

Brian G. Rich, Chairperson
Senstar-Stellar Corporation
119 John Cavanaugh Drive
Carp, Ontario, CANADA K0A 1L0
TEL: (613) 839-5572 FAX: (613) 839-5830
brich@senstarstellar.com

Western Europe

Dr. Gordon L. Thomas
30 Tudor Avenue
Worcester Park
Surrey, ENGLAND KT4 8TY
TEL: 44-208-337-3707
gordonl.thomas@virgin.net

Eastern Europe

Pieter de Bruyne
Pfadhagstrasse 2
CH8304 Wallisellen, SWITZERLAND
TEL/FAX: 1011 (411) 830-4239
pbruyne@bluewin.ch

Asia

So-Lin Yen
Deputy Director
The Computer Center
Ministry of Justice Investigation Bureau
P.O. Box 340 Taipei, TAIWAN ROC
TEL: 011 (886) 2-2911-2241 Ext. 2900
FAX: 011 (886) 2-2915-4358
solin.yen@msa.hinet.net

Australia/South Pacific

Clifton Smith
Edith Cowan University
100 Joondalup Drive
Joondalup, WESTERN AUSTRALIA 6027
TEL: 61-8-9400-5027 FAX: 61-8-6304-5811
clifton.smith@ecu.edu.au

41st International
Carnahan Conference on
Security Technology

October 8-11, 2007
Hampton Inn and Conference Center
Ottawa, Ontario

Online conference registration payment is by
CREDIT CARD ONLY
Please have your Credit Card ready before starting
American Express, Diners, Discover, MasterCard and Visa accepted

Registration questions or concerns contact Diana Krynski
+1800 810 4333 USA & Canada, or +1 732 981 3414
iccst07reg@ieee.org

For hotel accomodations at the Hampton Inn and Conference Center:
Reserve by calling Ms Valentina Gaca at the Hampton Inn and
Conference Center +613-741-2300
or email: Valentina_Gaca@hilton.com

Room Rate: $122.00 Cdn ($115.00 US)* single or double occupancy
You must mention that you are attending the Carnahan Conference
Group code **785**
(* Could change depending on currency exchange)

Room rates are subject to 15% tax per night occupancy fee
The room must be booked by **SEPT 8th** to receive discount

Conference room rate is only available October 7th - 13th, 2007
Tel: +1-613-741-2300 / +1-877-701-128   Fax: +1-613-741-8689

The Hampton Inn accepts Visa, MasterCard and American Express
Hotel check-in is 3:00 p.m. and check-out is 12:00 p.m.

Questions about the conference?
If you are interested in exhibiting at the Carnahan Conference, need
more information about the Carnahan Golf Tournament, or have other
questions please contact:

Shirley Reddick, Conference Secretary - sreddick@senstarstellar.com
or
Brian Rich, Conference Chair - brich@senstarstellar.com

IEEE INTERNATIONAL CARNAHAN CONFERENCE
ON SECURITY TECHNOLOGY 2007
Ms. Shirley Reddick
c/o Senstar-Stellar Corp.
119 John Cavanaugh Drive
Carp, ON K0A 1L0

41st International Carnahan Conference on Security Technology
8-11 October, 2007

CONFERENCE REGISTRATION FORM
Hampton Inn & Conference Center
Ottawa, Ontario CANADA

Please print or type all information, abbreviating as necessary

First Name: _____

Last Name: _____

Company/Institution: _____

Address: _____

City/State/Prov.: _____

Country, Postal Code/Zip: _____

Phone: _____

Fax: _____

Email: _____

IEEE Member No.: _____

REGISTRATION FEES (All Fees in US$):

Registration fee includes: Copy of printed proceedings; Welcome Reception Monday; Continental Breakfast (Hotel guests only) Tuesday; Wednesday and Thursday. Lunch Tuesday, Wednesday and Thursday. Banquet on Wednesday and Optional Group Tour on Thursday (to be arranged). Exhibitor fee includes two registrations.

	On/Before Aug. 15, 2007	After Aug. 15, 2007
IEEE Member	$650.00	$750.00
Non-Member	$750.00	$800.00
Military/Gov't Rate	$650.00	$750.00
Student	$400.00	$450.00
Exhibitors	$1,500.00	$1,800.00

☐ **Speaker and Primary Authors $400.00 (per paper)**

Fee must be paid with or prior to paper submittal. The cut off for author registration is July 27, 2007. One conference registration per paper submitted. If fee is not paid, the paper will not be published. There are no refunds for authors.

Paper Title: _____

OPTIONAL ITEMS:

☐ Registrants please select box if vegetarian meal is required

☐ Additional Banquet ticket (Wed.)   Qty_____@$60.00

- One day registration includes lunch for that day $275.00
    Please select day: ☐ Tuesday ☐ Wednesday ☐ Thursday

- <u>Golf Tournament</u> October 8th includes lunch, cart, practice range and
    prizes. http://www.themeadowsgolf.com   QTY_____@ $75.00

- <u>Conference Tour</u> - Please select box if you would like to attend the
    conference tour - Oct. 11th - Afternoon. Includes transportation and
    lunch. Details to follow, please visit website

Partner Program - Tuesday and Wednesday. Includes transportation and
luncheon. Pricing and details to follow, please visit website

For information please go to the conference website below:
http://www.carnahanconference.com/Conferences/
2007_Ottawa/2007_ottawa.html

PAYMENT:

Registration Fee	$_____
Optional Items	$_____
TOTAL (US$):	$_____

METHOD OF PAYMENT:

☐ Check (in USD) made out to: **IEEE/07ICCST**

☐ Visa   ☐ MasterCard   ☐ Amex   ☐ Diners   ☐ Discover

_____

Card Number & Exp. Date

_____

Cardholder Name

_____

Signature

☐ **Wire Transfer**
If you wish to pay by Wire Transfer please contact Diana Krynski for bank
information. A copy of your wire transfer must accompany your confer-
ence registration and include all transfer fees.

PLEASE MAIL COMPLETED FORM AND PAYMENT TO:
IEEE/CMS, ATTN: Diana Krynski
445 Hoes Lane, Piscataway, NJ 08855-1331
Phone: 732-981-3414 Fax: 732-465-6447
E-mail: iccst07reg@ieee.org

All requests for refunds must be in writing, or email. No refund will be given
After September 20, 2007. There will be a $100.00 service charge on all
refunds.

For more information, please refer to Conference Website.
http://www.carnahanconference.com

**IEEE INTERNATIONAL CARNAHAN CONFERENCE
ON SECURITY TECHNOLOGY 2007
Ms. Shirley Reddick
c/o Senstar-Stellar Corp.
119 John Cavanaugh Drive
Carp, ON K0A 1L0**

41st International Carnahan Conference on Security Technology
8-11 October, 2007
EXHIBITOR REGISTRATION FORM
Hampton Inn & Conference Center
Ottawa, Ontario CANADA

Please print or type all information, abbreviating as necessary

First Name: _____

Last Name: _____

Company/Institution: _____

Address: _____

City/State/Prov.: _____

Country, Postal Code/Zip: _____

Phone: _____

Fax: _____

Email: _____

IEEE Member No.: _____

REGISTRATION FEES (Fees in US$)

Exhibitor fee includes: Copy of printed proceedings, Welcome Reception Monday, Continental Breakfast (Hotel guests only) Tuesday, Wednesday, and Thursday, Lunch Tuesday, Wednesday, and Thursday. Banquet on Wednesday, and Optional Group Tour on Thursday to be arranged. Exhibitor fee includes two registrations

	On/Before Aug. 15, 2007	After Aug. 15, 2007
Exhibitors	$1,500.00 US$	$1,800.00 US$

EXHIBITOR FEE (Includes the following)

8' draped table, two chairs, exhibitor sign 18"x24", wastebasket, one 500 watt electrical outlet, and two conference registrations . This is a table top show.

Exhibit set-up time is October 8th: 2:00 – 8:00 p.m. ; exhibit breakdown will be after 12:30 p.m. on the Oct. 11th. Exhibit area will be open 8:30 a.m. to 5:00 p.m. on Tuesday and Wednesday, Thursday .8:30 a.m. – 12:30 p.m. Room is secure during conference.

OPTIONAL ITEMS

☐ *Registrants please select box if vegetarian meal is required.*
    Additional Banquet ticket (Wed)   QTY ___ @ $60.00

☐ *Golf Tournament Monday, October 8th includes lunch, cart, practice range and prizes   QTY ___ @ $75.00*

Conference Tour - Please select box if you would like to attend
    ☐ Tour - Oct. 11th - Afternoon. Includes transportation and lunch.
    Details to follow, please visit website

Partner Program - Tuesday and Wednesday. Includes transportation and luncheon. Pricing and details to follow, please visit website

For information please go to the conference website below:
http://www.carnahanconference.com/Conferences/
2007_Ottawa/2007_ottawa.html

METHOD OF PAYMENT:

☐ Check (in USD) made out to: **IEEE/07ICCST**

☐ Visa   ☐ MasterCard   ☐ Amex   ☐ Diners   ☐ Discover

_____

Card Number & Exp. Date

_____

Cardholder Name

_____

Signature

☐ **Wire Transfer**
If you wish to pay by Wire Transfer please contact Diana Krynski for bank information. A copy of your wire transfer must accompany your conference registration and include all transfer fees.

PLEASE MAIL COMPLETED FORM AND PAYMENT TO:
IEEE/CMS, ATTN: Diana Krynski
445 Hoes Lane, Piscataway, NJ 08855-1331
Phone: 732-981-3414 Fax: 732-465-6447
E-mail: iccst07reg@ieee.org

All requests for refunds must be in writing, or email. No refund will be given After September 20, 2007. There will be a $100.00 service charge on all refunds.

For more information, please refer to Conference Website.
http://www.carnahanconference.com or contact
Shirley Reddick - sreddick@senstarstellar.com - Phone 613-839-5572
Conference Chairperson – Brian Rich - Phone 613-839-5572

41st IEEE INTERNATIONAL CARNAHAN CONFERENCE ON SECURITY TECHNOLOGY
OCTOBER 8-11th, 2007
Ottawa, Ontario, Canada

Hampton Inn and Conference Center
Exhibitor Rules and Regulations

1. Exhibit space is allocated on a first-paid basis. Priority is determined by date of receipt of applications and full payment.
2. All payments must be received by September 15, 2007. All reservations made after that time must be followed by a payment within 3 working days. Reserved booths will be released if payment has not been made.
3. 50% refund will be given to those who supply a written notice of cancellation by September 20, 2007. No refunds will be made for cancellations received after this date.
4. Exhibit/booth fees include: 8' draped table, two chairs, an exhibitor sign 18" x 24" , wastebasket with liner, one 500 watt electrical outlet, and two conference registrations . This is a table top conference ONLY, call for further information.
5. All exhibits must fit within the confines of their assigned space so as not to impede traffic flow, infringe on the space of other exhibitors or violate emergency exit routes set forth by the fire marshall.
6. The ICCST Executive Committee reserves the right to rearrange the floor plan based on unsold exhibit space.
7. Neither IEEE, nor the Hampton Inn and Conference Center shall be liable for the damage, loss, or destruction of exhibits due to fire, theft, accident, or their destructive causes. Exhibitors shall lease booth(s) at their own risk. Neither IEEE or the Hampton Inn and Conference Center nor any of their agents or employees will be accountable or liable for accidents to exhibitors, their agents or their employees.
8. The exhibitor shall be liable to the Hampton Inn and Conference Center for any damage to the building an/or fixtures and furniture, which occur through acts or omissions of the exhibitors, their agents, or their employees.
9. Exhibitor assumes the entire responsibility and hereby agrees to protect, indemnify, defend and hold harmless IEEE and the Hampton Inn and Conference Center, their officers, employees, and agents against all claims, losses and damages to persons and property, governmental charges or fines, and attorney's fees arising out of or caused by exhibitors installation, removal, maintenance, occupancy or use of the exhibition premises or any part thereof, including any outside exhibit areas.
10. IEEE and the Hampton Inn and Conference Center do not maintain and are not responsible for obtaining insurance covering exhibitor's property. Exhibitors should obtain business interruption and property damage and loss insurance to cover such occurrence.
11. No photography is allowed without the permission of the booth staff.
12. Exhibit set-up time is October 8th: 2:00 – 8:00 p.m.; exhibit breakdown will be after 12:30 p.m. on Oct. 11th
13. Exhibit area will be open 10:00 a.m. to 5:00 p.m. on Tuesday,

October 9th and 8:30 a.m. – 5:00 p.m. on Wednesday October 10th, 8:30 a.m.- 12:30 p.m., October 11th.

_____

Exhibitor Company Name

_____

Representative Signature

_____

Date

2007 IEEE ICCST Program - Preliminary

Monday, October 8, 2007

09:00–14:00pm
Annual ICCST Carnahan Cup Golf Tournament
The Meadows Golf & Country Club

14:00–20:00pm
Exhibitor Setup

18:30–21:00pm
Registration & Reception with light hors d'oeuvres

Tuesday, October 9, 2007

08:00–09:00am
Registration

09:00–09:30am
Opening Remarks & Introductions

09:30–10:00am
Keynote Speaker

10:00–17:00pm
Exhibits Open

10:00–10:30am
Morning Break

10:30–12:00pm
Session 1a: Security Program & System Design
Moderator: Mr. Gene Greneker, USA

It's All About the System: Changing The Way We Think About Designing Security Systems
Kerrin A. Barrett - Sandia National Laboratories, USA

Protecting the U.S. Chemical Sector
Steven G. King, Thomas M. Wood - GSA, USA

An Initiative to Improve the State of Information Security at Local Governments in Japan
Davar Pishva, Naoshi Kitamura, Seiji Tsugawa, Keiji Takeda - Carnegie Mellon CyLab, Japan

Session 1a: Security Program & System Design (Con't)

Critical Energy Infrastructure Protection in the Arab Gulf Using Multiple Technological Platforms
Halim Abd El Halim, Martin Rudner, Roshdy H.M. Hafez - Carleton University, Canada

Session 1b: Biometrics

Moderator: Mr. Alfonso Bilboa, Spain

Fake Fingerprint Detection Using Sample Quality Measures
Stephen J. Elliott , Hakil Kim, Matthew R. Young, Shimon Modi - Purdue University, USA

Increasing Security with Correlation-Based Fingerprint Matching
Almudena Lindoso, Luis Entrena, Judith Liu-Jimenez, Enrique San Millán - University Carlos III of Madrid, Spain

Vascular Biometric Systems & Their Security Evaluation
Raul Sanchez-Reillo, Belen Fernandez-Saavedra, Judith Liu-Jimenez, Carmen Sanches-Avila - University Carlos III of Madrid, Spain

Low Cost Multimodal Biometric Identification System Based on Hand Geometry, Palm & Fingerprint Texture
Miguel A Ferrer, Carlos M. Travieso, Jesús B. Alonso - Universidad de Las Palmas de Gran Canaria, Spain

12:00-13:00pm
Lunch Break

13:00-15:00pm
Session 2a: Security Risk Assessment

Moderator: Dr. Mark Stroud, UK

RFID Security Threats to Consumers: Hype vs. Reality
Shantanu Rao, Nagaraja Thanthry, Ravi Pendse - Wichita State University, USA

A Risk Management Method Based on the AS/NZS 4360 Standard
Alejandro Castillo, Enrique Bilbao, Alfonso Bilbao - Universidad Politecnica de Madrid, Spain

Securing Large Applications Against Command Injections
Guy-Vincent Jourdan - University of Ottawa, Canada

Implementing Known Shipper Supply Chain Security Solutions in the USA & Europe
Marcus Hallside - Innovative Compliance Inc, USA

Session 2b: Biometrics (Cont'd)
Moderator: Mr. Rick Lazarick, USA

Bacterial Survivability & Transferability on Biometric Devices
Christy Blomeke, Stephen J. Elliott, Thomas Walter, Brandt M. Davis, James E. Tollefson - Purdue University, USA

Smart-Card-Based Face Verification System: Empirical Investigation on the Selection of Filtering Parameters & Number Of Eigenvectors
Thirimachos Bourlai, Josef Kittler, Kieron Messer - University of Surrey, UK

Arbitrary Illumination Conditions for Facial Identification
Carlos M. Travieso, Jesús B Alonso, Miguel A. Ferrer - Universidad de Las Palmas de Gran Canaria, Spain

Robust Biometric Identification Combining Face & Speech
Enric Monte-Moreno, Marcos Faundez-Zanuy - Universitària Politècnica de Mataró (UPC), Spain

15:00-15:30pm
Afternoon Break

15:30–16:30pm
Session 3a: Border & Port Protection
Moderator: Mr. Jack Veatch, USA

Border Intrusion Detection - Thinking Outside the Perimeter
Dr. Keith Harman, Gord Loney - Senstar-Stellar Corporation, Canada

PortSim - A Port Security Simulation & Visualization Tool
Dr. Daniel B. Koch - Oak Ridge National Labs, USA

How to Increase Performance in Airport Security
Dr. Adrian Schwaninger - University of Zurich, Switzerland

A New Worldwide Traceability Technology to Complement GPS
André Gagnon - Tektrap Systems Inc., Canada

Session 3b: Biometrics & Communication Security
Moderator: Mr. Ron Clifton, Canada

Spectroscopic Approach for Aliveness Detection in Biometrics Authentication
Davar Pishva - Carnegie Mellon CyLab, Japan

Indirect Human Computer Interaction-Based Biometrics for Intrusion Detection Systems
Roman V. Yampolskiy - University at Buffalo, USA

Quantum Wireless Secure Communication Protocol
Tien-Sheng Lin, Sy-Yen Kuo - National Taiwan University, Taiwan

Session 3b: Biometrics & Communication Security (Con't)

TacNet: Mobile Ad Hoc Secure Communications Network
Loren E. Riblett, James M. Wiseman - Sandia National Laboratories, USA

Wednesday October 10, 2007

08:30–17:00pm
Exhibits Open

08:30-10:00am
Session 4: Intrusion Detection Systems
Moderator: Mr. Nigel Grist, Australia

Conductive Sensor Cables for Perimeter Intrusion Detection
Dr. Mel Maki - Senstar-Stellar Corporation, Canada

Seismic-Based Personnel Detection
Dr. Lindamae Peck, James Lacombe - US Army Engineer Research & Development Center (CRREL), USA

Benefits of Wide Area Intrusion Detection Systems
Walker Butler - ICx Radar Systems – STS Radars, USA

The Secure Perimeter Awareness Network (SPAN) at JFK International Airport
Ann Barry, David S. Mazel, John O'Neil - Technology Service Corporation, USA

10:00–10:30am
Morning Break

10:30–12:00pm
Session 5: Intrusion Detection System Developments
Moderator: Mr. Dan Pritchard, USA

Wide Area Surveillance Employing Millimeter Wave Radar
Pierre Poitevin, Alan Browne - ICx Radar Systems Inc., Canada

Experience with the Latest Generation Electric Field Sensors
Jeremy Weese, Eugene Kozar - Senstar-Stellar Corporation, Canada

Recent Developments in Ground Based Millimeter Wave Radar
André Gagnon - KG Spectrum Inc., Canada

Experience with Ranging Buried Cable Sensing
Bill Hodgins, Dr. Keith Harman - Senstar Stellar Corporation, Canada

12:00–13:00pm
Lunch Break

13:00–15:00pm

Session 6: Information Technology
Moderator: Dr. Gordon Thomas, UK

Video Encryption for Security Surveillance
Jun Huang - GenieView Incorporated (CRC), Canada

Towards Privacy in Enterprise Directory Services : A User-Centric Approach to Attribute Management
William Claycomb - Sandia National Laboratories, USA

Secure Routing Protocols for Wireless Sensor Networks
Hiren Kumar Deva Sarma, Avijit Kar, - Manipal Institute of Technology and Jadavpur University, India

Reference Material for Assessing Forensic SIM Tools
Wayne Jansen, Aurelien Delaitre - National Institute of Standards and Technology, Canada

15:00–15:30pm
Afternoon Break

15:30–17:00pm
Session 7: Information Technology (Con't)
Moderator: Mr. Milos Klima, Czech Republic

Cooperating Systems for Global Intrusion Detection & Tolerance
Amel Meddeb-Makhlouf, Yacine Djemaiel, Noureddine Boudriga – Lab.CNAS, SUPCOM, Tunisia

Network Intrusion Detection Technology & Virus Protection
Toshihiko Kamon - National Police Agency, Japan

An Efficient Authenticated Group Key Agreement Protocol
Dr. Yong-Zhong HE, Zhan Han - Beijing Jiaotong University, China

IP Traceback by Packet Marking Method with Bloom Filters
Hosoi Takurou - The University of Tokyo, Japan

18:00-18:30pm
Transportation to the Annual Carnahan Banquet
Canadian Aviation Museum

18:30-19:30pm
Refreshments And Self Guided Tour Of The Museum

19:30-21:30pm
Annual Carnahan Banquet

Thursday October 11, 2007

08:30-12:00pm
Exhibits Open

08:30–10:00am
Session 8: Video Surveillance Systems
Moderator: Dr. Adrian Schwaninger, Switzerland

The Use of Thermal Imagery with Video Motion Detection Systems at Her Majesty's Prison
Raj Chowdhury - Home Office Scientific Development Branch (HOSDB), UK

Can CCTV Reliably Detect Gun Crime?
Iain Darker, Alastair Gale, Leila Ward, Anastassia Blechko - University of Loughborough, UK

Threat Image Projection in CCTV
Nicola Thomas, Bob Baker - Home Office Scientific Development Branch, UK

An Efficient Face Identification Method in a Transformed Domain
Marcos Faundez-Zanuy, Virginia Espinosa-Duró, Juan Antonio Ortega - Technical University of Catalonia, Spain

10:00–10:30am
Morning Break

10:30–12:00pm
Session 9: Security & Detection Systems
Moderator: Mr. G. Dan Smith, USA

A Neutron Based Vehicle Borne Improvised Explosive Device Detection System
D. Koltick, Y. Kim, S. McConchie, I. Novikov - Purdue University, USA

Detection of Terrorist Threats in Air Passenger Luggage: Expertise Development
Xi Liu, Alastair Gale, Tao Song - University of Loughborough, UK

License Plate Detection & Recognition Using a Dual-Camera Module in a Large Space
Chin-Chuan Han, Cheng-Ta Hsieh, Gang-Feng Ho, Chang-Lung Tsai, Kuo-Chin Fan - National United University, Taiwan

Experimental Verification of a Posteriori Quality Enhancement of Security Images
Milos Klima, Karel Fliegel, Jan Svihlik - Czech Technical University in Prague, Czech Republic

12:00–12:15pm
Final Remarks

12:30–16:00pm

Afternoon Tours (Optional)

Includes transportation and lunch

Back-Up Papers

Investigating Training and Transfer Effects Resulting from Recurrent CBT of X-Ray Image Interpretation
Saskia Koller, Diana Hardmeier, Stefan Michel,
Dr. Adrian Schwaninger - University of Zurich, Switzerland

On-Line Signature Verification by Dynamic Time Warping and Gaussian Mixture Models
Oscar Miguel-Hurtado, Luis Mengibar-Pozo, Michael G. Lorenz, Judith Liu-Jimenez - University Carlos III of Madrid, Spain

Secure Routing Protocol for Wireless Sensor Networks - Overview and Analysis
Hiren Kumar Deva Sarma, Avijit Kar - Manipal Institute of Technology and Jadavpur University, India

An Image Quality Assessment Method based on HVS
Wu Wei - Center of Aviation Safety Technology CAAC, Beijing, China

Open Surveillance: Service-Oriented Architecture (SOA) to Integrate Security Systems and Processes
Prof. Stephané Gagnon - Université de Québec en Outaouais, Canada

IEEE INTERNATIONAL CARNAHAN CONFERENCE ON SECURITY TECHNOLOGY 2007
c/o Senstar-Stellar Corp.
119 John Cavanaugh Drive
Carp, Ontario K0A 1L0