



Carleton
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Office of the Dean
Faculty of
**Engineering
and Design**

Infrastructure
Resilience
Research
Group



Toronto, Ontario (Canada) Skyline at Night

**2017 International Urban
Security and Resilience
Conference, Workshop and Exhibition**
NEW REALITIES – NEW STRATEGIES

May 16 – 19, 2017 | The Sheraton Centre, Toronto, Ontario, Canada

CONFERENCE PROGRAM

3010 Minto Centre, 1125 Colonel By Drive, Ottawa, Ontario, Canada K1S 5B6



Conference Host

Rafik A. Goubran, Ph.D.
Fellow IEEE, Fellow CAE
Acting Vice President
Research and International Affairs
Carleton University

STATEMENT

(to follow)

Conference Chair

Peter Harrison, Ph.D.
Professor Emeritus, Queen's University
Former Deputy Minister
Natural Resources Canada and
Fisheries and Oceans Canada

STATEMENT

(to follow)

Strategic Advisor

Commissioner (Rtd) Giuliano Zaccardelli
Royal Canadian Mounted Police

STATEMENT

(to follow)

Strategic Coordinator

Assistant Commissioner (Rtd) Dawson Hovey
Royal Canadian Mounted Police

STATEMENT

(to follow)

CONFERENCE SPOKESPERSONS

Allan Jones
Assistant Director (Rtd)
Canadian Security
Intelligence Service (CSIS)

Paul Goldenberg
Chairman and CEO, Cardinal Strategies,
and Member of Homeland Security
Advisory Council



CONFERENCE PATRONS





Day 1, Tuesday, May 16th, 2017

TIME	EVENT	LOCATION
07:00 – 08:00	Breakfast and Registration	Vide Area & Office
08:00 – 08:10	Conference Host Remarks Professor R.A. Goubran, Ph.D., Fellow IEEE, Fellow CAE, Professor and Acting Vice President, Research and International Affairs Carleton University	Grand W&C
08:10 – 08:20	Chair’s Opening Statement Dr. Peter Harrison, Professor Emeritus, Queen’s University and former Deputy Minister of Natural Resources Canada and Fisheries and Oceans Canada	
08:20 – 08:35	Welcome Address John Tory, Mayor to Toronto (Invited)	
08:35 – 08:45	Opening Remarks Chief Mark Saunders, Toronto Police Services (Invited)	
08:45 – 09:45	Keynote Speaker The Honourable Ralph Goodale (Invited) Minister of Public Safety and Emergency Preparedness	
09:45 – 10:15	Health and Networking Break	Grand Ball Room Foyer
10:15 – 10:30	Program Overview Commissioner Giuliano Zaccardelli (Rtd) Royal Canadian Mounted Police	Grand W&C
10:30 – 11:30	SESSION 1: WHAT IS THE NEW REALITY – SECURITY REQUIREMENTS AND THREATS? Richard Fadden, former Director, Canadian Security Intelligence Service and former National Security Advisor to the Prime Minister of Canada	
11:30 – 12:00	Networking Break and Tour of Exhibition	
12:00 – 13:30	Networking Lunch	Grand Ball Room Foyer



Cont'd... Day 1, Tuesday, May 16th, 2017

TIME	EVENT	LOCATION
13:30 – 14:45	<p>SESSION 2: GOVERNANCE AND CIVIL SOCIETY</p> <p>Anna Carlstedt, National Coordinator Swedish Government Office to Safeguard Democracy Against Extremism</p> <p>Hon. Michael Balboni, President and Managing Director Redland Strategies</p>	Grand W&C
14:45 – 15:15	<p>Lessons Learned and Ongoing Challenges in Addressing Counter-Terrorism Threats in Africa – A Kenyan Perspective</p> <p>Dr. Martin Kimani, Director, National Counter-Terrorism Centre (Invited) Office of the President, Government of Kenya</p>	
15:15 – 15:45	Health and Networking Break	Grand Ball Room Foyer
15:45 – 16:15	<p><u>Thematic, Session I</u></p> <p>International Trends Fighting Against Terrorism</p> <p>Dr. Anne Speckhard, Adjunct Associate Professor of Psychiatry, School of Medicine, Georgetown University and Director, International Centre for the Study of Violent Extremism</p>	Grand W&C
16:15 – 17:15	<p><u>Thematic, Session II</u></p> <p>Disaster Response Challenges and Lessons Learned</p> <p><u>Case Studies:</u></p> <p><i>From World Trade Centre Bombings to Hurricane Sandy</i> John Agostino, Vice President and Executive Director of Program Delivery, Adjusters International</p> <p><i>Fort McMurray Wildfires</i> Rein Tonowski, Director, Central Operations Alberta Emergency Management Agency</p>	
17:15 – 17:25	<p>Chair's Wrap Up</p> <p>Dr. Peter Harrison</p>	
18:00 – 19:00	Reception	Exhibition Area
19:00 – 21:00	<p>Dinner</p> <p>Speaker: Honourable Senator Gwen Boniface, Senate of Canada</p>	Grand Ball Room



Day 2, Wednesday, May 17th, 2017

TIME	EVENT	LOCATION
07:00 – 08:00	Breakfast	Grand Ball Room Foyer
08:00 – 08:15	Remarks & Day 1 Recap Dr. Peter Harrison	Grand W&C
08:15 – 09:00	Keynote Speaker Tim Egan, President and CEO, Canadian Gas Association	
09:00 – 09:30	Health and Networking Break	Grand Ball Room Foyer
09:30 – 11:30	SESSION 3: CIVIL SOCIETY: WHAT IS THE LAW ENFORCEMENT AND SECURITY RESPONSE TO THE THREAT – THE CIVIL SOCIETY RESPONSE? Chief Justice Richard Bell, Court Martial Appeal Court of Canada Judge Leonie Brinkema, U.S. District Court for Eastern District of Virginia Ray Boisvert, Ontario Provincial Security Advisor Assistant Director (Rtd), Canadian Security Intelligence Services (CSIS)	Grand W&C
11:30 – 12:00	Networking Break and Tour of Exhibition	
12:00 – 13:00	Networking Lunch	Grand Ball Room Foyer
13:00 – 15:00	SESSION 4: PRIVATE SECTOR ROLES AND RESPONSIBILITIES IN NEW REALITY Tom Higgins, Executive Vice President and Chief Administrative Officer First Data Corporation Malcolm Chivers, Director, Corporate Security, Canadian Bankers Association Tim Roxey, Vice President & COO, E-ISAC North American Electric Reliability Corporation ASIS International	Grand W&C
15:00 – 15:30	Health and Networking Break	Grand Ball Room Foyer



Cont'd... Day 2, Wednesday, May 17th, 2017

TIME	EVENT	LOCATION
15:30 – 17:30	<p><u>Thematic Session III</u></p> <p>Changing Paradigm: Unique Public Role in Ensuring its Own Safety and Security in Partnership with Communities, Police and Security Professionals as Agents of Social Change</p> <p>Roger Brown, Assistant Commissioner (Rtd), RCMP Chief Ronald Haddad, Dearborn Michigan Police Michael Masters, Director (Rtd), Cook County, Office of Homeland Security Chief Saad Armann, Deputy Commissioner, Belgian National Police</p>	Grand W&C
17:30 – 17:40	<p>Chair's Wrap Up</p> <p>Dr. Peter Harrison</p>	
18:00 – 19:00	Reception	Exhibition Area

Day 3, Thursday, May 18th, 2017

TIME	EVENT	LOCATION
07:00 – 08:00	Breakfast	Grand Ball Room Foyer
08:00 – 08:15	<p>Remarks & Day 2 Recap</p> <p>Dr. Peter Harrison</p>	Grand W&C
08:15 – 10:00	<p>SESSION 5: IS ISLAMIC EXTREMISM PROVOKING THE RISE OF NATIONALISM, AND WHAT ARE THE POTENTIAL IMPACTS ON COMMUNITIES?</p> <p><u>Rutger's University Panel:</u></p> <p>Professor John Farmer, Former Dean/Justice Alan B. Handler Scholar, School of Law, Rutger's University / former Senior Counsel and Team leader, National Commission on Terrorist Attacks (9/11 Commission) Paul Goldenberg, Chairman & CEO, Cardinal Strategies and Member of Homeland Security Advisory Council</p>	
10:00 – 10:15	Health and Networking Break	Grand Ball Room Foyer



Cont'd... Day 3, Thursday, May 18th, 2017

TIME	EVENT	LOCATION
10:00 – 12:00	<p><u>Thematic Session IV</u></p> <p>Urban Transportation Space Security, Protection and Social Media: Opportunities and Challenges</p> <p>Susan Reinertson, Vice President, Emergency Management, Corporate Security AMTRAK</p> <p>Rafal Rohonzinski, Principal and CEO, The SecDev Group</p> <p>Stephen Covey, CN Chief of Police and Chief Security Officer</p>	Grand W&C
12:00 – 13:00	Networking Lunch	Grand Ball Room Foyer
13:00 – 14:45	<p>SESSION 6: RAPORTEURS REPORT FROM SESSIONS 1-5</p> <p><u>Session Rapporteurs:</u></p> <p><i>Session 1: What is the new reality – security requirements and threats?</i></p> <p>Dr. Martin Rudner, Professor Emeritus, Carleton University, Ottawa</p> <p><i>Session 2: Governance and Civil Society</i></p> <p>Anna Hedin Ekström, Senior Advisor, Swedish Government Office to Safeguard Democracy Against Extremism</p> <p><i>Session 3: Civil Society: What is the law enforcement and security response to the threat – the civil society response?</i></p> <p>Alan Jones, Assistant Director (Rtd), Canadian Security Intelligence Services</p> <p><i>Session 4: Private Sector Roles and Responsibilities in New Reality</i></p> <p>Joanne Kellerman, General Counsel (Rtd), Department of Justice</p> <p><i>Session 5: Rutger’s University Panel; Best Models to respond globally?; The European Union Counter-Terrorism Strategy</i></p> <p>Paul Goldenberg, Chairman & CEO Cardinal Strategies</p>	Grand W&C
14:45 – 15:00	<p>Chair and Strategic Advisor’s Closing Comments</p> <p>Dr. Peter Harrison</p> <p>Commissioner Giuliano Zaccardelli (Rtd)</p>	



Day 4, Friday, May 19th, 2017

TIME	EVENT	LOCATION
08:00 – 17:00	❖ Organized tours of Toronto, Niagara Falls/Region Winery, Kitchener-Waterloo, Stratford, etc.	Hotel Lobby
08:00 – 17:00	❖ Concurrent Training Workshops (Optional) (separate registration required)	
	• Critical Infrastructure Protection Overview	Linden Room
	• Cyber Vulnerabilities of Cities: Understanding the Cyber Risks to Urban Centres	Cedar Room
	• Resilient Security in an Urban Environment	Sheraton Hall A



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WORKSHOP PROGRAM



Friday, May 19th, 2017

3010 Minto Centre, 1125 Colonel By Drive, Ottawa, Ontario, Canada K1S 5B6



CONCURRENT TRAINING WORKSHOPS (OPTIONAL)

****Separate Registration Required****

CRITICAL INFRASTRUCTURE PROTECTION OVERVIEW

Course Description

Summary: Critical Infrastructure Protection requires an effective risk-based approach to management. This program teaches the fundamental steps for creating and managing a critical infrastructure protection platform. This entry level critical infrastructure protection course introduces key terminology, essential program elements to build off and define process for managing security in a complex security environment. This program is a necessary background for the more comprehensive instructional program, “Security Program Management” which sets out the building blocks for a complete security program within the critical infrastructure domain.

Instructor’s Biography

Doug Powell, CPP, PSP

Project Manager - Security (Site C Clean Energy Project) - BC Hydro

Doug has 34 years of management experience in the security industry. He joined BC Hydro in 2006. Doug assumed management responsibility for BC Hydro as head of corporate security. Doug gave guidance to protect critical infrastructure during the 2010 Winter Olympics. In 2010 Doug became lead for BC Hydro’s Smart Meter and Infrastructure Project Security, Privacy & Safety Risk, and Governance. In September 2015, Doug became the project management security lead for BC Hydro’s “Site C” dam construction project. Doug is considered an expert in several areas related to critical infrastructure protection and security management.

Doug shows leadership internationally serving in committees and professional organizations, such as ASIS International; ***Utilities Security Council***; and ***Critical Infrastructure Working Group***. He was a

Council Vice President for ASIS International until 2016, overseeing security subject matter experts in four professional councils. Doug was also an advisor to Canada’s ***National Electricity Infrastructure Test Centre*** (NEITC) and participates as a Research and Education Associate for Carleton University’s ***Infrastructure Resiliency Research Group***. Doug is a member of IRRG’s Steering Committee for the ***2017 Urban Security & Resilience Conference***, being held in Toronto May 16 – 19, 2017.

Doug won the **2012 Security Seven Award** by ***Information Security Magazine***. He was named **2010 CSO of the Year** and his team won the **2011 Security Program of the Year**, both from ***SC Magazine***. Doug is a speaker of high-profile, internationally and has authored numerous industry papers and articles.



CYBER VULNERABILITIES OF CITIES: UNDERSTANDING THE CYBER RISKS TO URBAN CENTRES

Course Description

A growing challenge for urban planners, managers and decision makers is to ensure that cities are resilient against cyberattacks. A unique feature of urban centres is its dependence on a multitude of vital services. From public transportation to emergency services, to water and waste water management, cities depend on critical services to operate normally. In this one-day training session, participants will discover the vulnerabilities that can expose cities to cyber risks that can cause the functional breakdown of urban centres. This awareness training session will provide a strategic understanding of the cyber threats, risks and vulnerabilities that can impact the operation of cities.

Instructor's Biography

Dr. Tiago Alves de Jesus

Dr. Alves de Jesus received an undergraduate degree in mathematics and physics from l'Université de Montréal before obtaining a Masters in theoretical physics from the University of British Columbia (UBC). He later attended McGill University where he completed a Ph.D. in nano-electronics. After his doctorate, Dr. Alves de Jesus worked in the financial sector on Bay Street in Toronto, where he developed *risk management models* for the global portfolio of one Canada's "Big Five". He left the financial world to start-up two high-tech companies that developed state-of-the-art computer simulation software for chip designers.

After his time as an entrepreneur, Dr. Alves de Jesus came to Ottawa to pursue a career in National Security. He joined the RCMP's National Security program where he worked as a *Senior Intelligence Research Specialist* for the Critical Infrastructure Criminal Intelligence (CICI) unit. While working there he became the Subject Matter Expert (SME) for the National Security Criminal Investigations (NSCI) program. In this role he was the RCMP's lead for the development of the Government of Canada's Information Technology Incident Management Plan

(GC IT IMP); key member of the Cyber Triage Unit (CTU), which was responsible for analyzing cyberattacks against GC networks; played a leading role in the International Cyber Storm Exercises; and pursued National Security cyber investigations with Tech Crime investigators.

During this time, Dr. Alves de Jesus also sponsored multiple Science and Technology (S&T) security projects funded by Defense Research and Development Canada (DRDC), including Canada's first cybersecurity research project involving Industrial Control Systems (ICS). He later worked to set up an ICS test-bed at Natural Resources Canada, which evolved into the National Energy Infrastructure Test Centre (NEITC). Today, he is a Senior Advisor for the Energy Infrastructure Security Division (EISD) and the Deputy Project Manager for NEITC, where he develops and delivers hands-on cybersecurity training exercises for security professionals within the Energy and Utilities Sector.

Dr. Alves de Jesus is also a Civilian Expert for NATO's Rapid Response Team.



RESILIENT SECURITY IN AN URBAN ENVIRONMENT

Course Description

This one-day training seminar will focus on the specific challenges associated with creating a Robust and Resilient Security Posture in an Urban Environment. During the course of the seminar, topics, such as Intelligence Collection and Analysis, Valued Strategic Partnerships, and Threat & Risk Assessment and Mitigating Strategies will be explored and contextualized.

The day will be divided into three specific areas:

- Recognizing and Fostering Strategic Partnerships;
- Understanding and Meeting the Real Threat – Reality vs Perception
- Identification and Deployment of Critical Protective Measure

This one-day of advanced training will present the above topics from a strategic perspective, providing professional insight into the particulars of a resilient security program that compliments and enables an Organization's mission, while fostering an environment for efficient business recovery.

Who should attend this one-day training?

- Security Professional,
- Security Managers;
- Chief Security Officers; and
- Executives and Senior Executives responsible for Security, Business Continuity Program, and Asset Protection.

Instructor's Biography

Raynald J. Lampron, CPP, MSM, RMC
President of SITERA Global Security Solutions

Raynald has a Bachelor of Arts in Psychology and Political Science and a Masters in Security Management. He has served for more than 27 years in the Military Police, both as a Non-Commissioned and Commissioned Officer. He is currently a Director in the Federal Public Service. During his career, Raynald has served in both Operational and Strategic positions, culminating as Provost Marshal of 19 Wing Comox.

Raynald has extensive experience and knowledge in the fields of security and investigation. He has served on numerous domestic security operations and has gained international experience through assignments with the Department of Foreign Affairs

in South America and four Operational Deployments with the United Nations and NATO, as well as numerous security evaluations and investigations worldwide.

Raynald is a proficient, trilingual lecturer in the field of Security, Investigation and Leadership/Ethics. He is a dedicated and professional specialist who is passionate about his field. He continues to broaden and enrich his knowledge in the field of security through his teaching and lecturing, his ongoing association with ASIS, and his position with Carleton University's Infrastructure Resiliency Research Group (IRRG).



SAMPLE OF COURSE CERTIFICATE OF COMPLETION



Infrastructure Resilience Research Group (IRRG)
Office of the Dean, Faculty of Engineering and Design

Certificate of Completion

This is to certify that

Mr. Smith

completed the course

**Critical Infrastructure
Protection Overview**

Friday, May 19th, 2017

Felix Kwamena, Ph.D.
Adjunct Professor and Director
Infrastructure Resilience Research Group

Doug Powell, CPP, PSP
Research Associate
Infrastructure Resilience Research Group



Infrastructure Resilience Research Group (IRRG)
Office of the Dean, Faculty of Engineering and Design

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**Cyber Vulnerabilities of Cities:
Understanding the Cyber Risks
to Urban Centres**

Friday, May 19th, 2017

Felix Kwamena, Ph.D.
Adjunct Professor and Director
Infrastructure Resilience Research Group

Tiago Alves de Jesus, Ph.D.
Research Associate
Infrastructure Resilience Research Group



Infrastructure Resilience Research Group (IRRG)
Office of the Dean, Faculty of Engineering and Design

Certificate of Completion

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**Resilient Security in an
Urban Environment**

Friday, May 19th, 2017

Felix Kwamena, Ph.D.
Adjunct Professor and Director
Infrastructure Resilience Research Group

Raynald J. Lampron, CPP, MSM, RMC
President, SITERA Global Security Solutions
Research Associate
Infrastructure Resilience Research Group



STEERING COMMITTEE MEMBERS

Felix Kwamena, Ph.D.
Adjunct Professor / Director
Infrastructure Resilience Research Group
Office of the Dean
Faculty of Engineering and Design
Carleton University

Doug Powell
BC Hydro / IRRG Associate

SPECIAL ADVISORS

Cynthia Weeden
Founder and President
Future Shield Inc.

Bill Bradshaw, CPP
Director, Bill Bradshaw Consulting
former ASIS International
Senior Regional VP (Canada)

Dave Sulston
Director, Security
Oxford Properties / BOMA Canada

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