



# CANADIAN SUMMIT FOR HEALTHCARE CYBER SECURITY

Summit Program – February 22, 2018, Toronto.



## Message from HealthCareCAN President & CEO Paul-Émile Cloutier

On behalf of HealthCareCAN, I am pleased to welcome you to the Canadian Summit on Healthcare Cyber Security.

Today's event hinges on a growing recognition of the role that a secure digital infrastructure plays in ensuring patient care that is both dynamic and safe. The relentless advance of technology has brought about new opportunities across the continuum of patient care. Yet these new opportunities bring with them new challenges. There are fears that the healthcare system as a whole has not kept pace with the challenges of today's brave new digital world.

In my mind, today's Summit has three objectives. The first is to educate participants on the cyber threat landscape in modern healthcare systems. The second is to launch a *Declaration of Commitment to Cybersafe Healthcare*; a document that proclaims a common understanding of the importance of Cyber Security in Canada's health sector and commitment in principle to advancing the sector's resilience. And the third is to review and flesh-out potential options to jointly promote sector resilience and to identify additional options that have not previously surfaced.

This Summit includes participation from leaders in a wide variety of disciplines in Canada, including: healthcare executives, clinical leaders, experts in the relevant domains of law, insurance, and academia, government partners, and technical experts from the world of Cyber Security. We have also convened international players in healthcare Cyber Security as part of a panel discussion on developments abroad. I encourage you to network generously, and to make every use of your peers' knowledge, influence and expertise in the course of the day's discussions.

Ultimately, I hope that you will emerge from the Summit with a deeper understanding of the issues at play in healthcare Cyber Security and a renewed commitment to working in concert in order to mitigate Cyber Security vulnerabilities in Canada.

Sincerely,

Paul-Émile Cloutier  
President & CEO, HealthCareCAN



HealthCareCAN is the national voice of healthcare organizations and hospitals across Canada. We foster informed and continuous, results oriented discovery and innovation across the continuum of healthcare. We act with others to enhance the health of the people of Canada; to build the capability for high quality care; and to help ensure value for money in publicly financed healthcare programs.

# Canadian Summit on Healthcare Cyber Security

## Agenda

Thursday, February 22, 2018  
08:30-16:30

Time	Agenda Item
8:30-9:00	Light Breakfast
9:00-9:45	Welcome and Introductions <ul style="list-style-type: none"><li>• Paul-Émile Cloutier, President and CEO, HealthCareCAN with David Diamond, Board Chair, HealthCareCAN</li><li>• Colleen Merchant, Director General for Cyber Security, Public Safety Canada</li></ul>
9:45-10:45	Panel Discussion: Learning from Others – Global and Cross-Sector Perspectives Moderator: Bill Tholl Panelists: <ul style="list-style-type: none"><li>• Cédric Arcos – Deputy General Manager, French Hospital Federation</li><li>• Dan Taylor – Head of Security, NHS Digital</li><li>• John Riggi – Senior Advisor on Cyber Security and Risk, American Hospital Association</li><li>• Francis Bradley – Chief Operating Officer, Canadian Electricity Association</li></ul>
10:45-11:15	Break
11:15-12:15	Panel Discussion: Current State of Cyber Security in Canada’s Health Sector Moderator: Bill Tholl Panelists: <ul style="list-style-type: none"><li>• Ray Boisvert – Ontario Provincial Security Advisor</li><li>• Jeff Curtis – Chief Privacy Officer, Sunnybrook Health Sciences Centre</li><li>• Jim Patterson – Partner, Bennett Jones LLP</li><li>• Brendan Seaton, President, ITAC Health</li></ul>
12:15-13:15	Lunch
13:15-13:45	Moving Ahead: The Imperative for Action on Cyber Security <ul style="list-style-type: none"><li>• Kevin Magee – Global Security Strategist for Gigamon &amp; Member of the Board of Directors for Brant Community Healthcare System</li></ul>

<b>13:45-14:30</b>	Facilitated Session: The <i>Declaration of Commitment to Cybersafe Healthcare</i>
<b>14:30-15:00</b>	Break
<b>15:00-16:10</b>	Facilitated Session: Options for Collective Progress
<b>16:10-16:30</b>	Reflective Summary and Next Steps <ul style="list-style-type: none"><li>• Paul-Émile Cloutier, President and CEO, HealthCareCAN</li></ul>

## Speaker Bios



**Paul-Émile Cloutier**  
**President & CEO**  
**HealthCareCAN**

Paul-Émile Cloutier was appointed President and CEO of HealthCareCAN, effective June 12, 2017. Before coming to HealthCareCAN, Paul-Émile Cloutier was Vice-President of Advocacy and External Relations of Genome Canada, where he was responsible for managing government and stakeholder relations, communications, events and sponsorships. Prior to that, he spent 11 years at the Canadian Medical Association, initially as Assistant Secretary General, and then as CEO and Secretary General responsible for strategic planning, stakeholder relations and alliances, as well as overseeing the policy direction of the Association. Mr. Cloutier also worked as a senior executive at VIA Rail Canada and for the Ontario Minister of Intergovernmental Affairs. He has held a number of policy and strategic direction positions in the federal departments of Immigration Canada, External Relations and International Development, and Indigenous and Northern Affairs, where he honed an excellent understanding of the federal-provincial dynamic.

A Montreal native, Mr. Cloutier is fully bilingual and holds two master's degrees (Health Administration and Political Science) and two bachelor's degrees (Social Sciences and Political Science) from the University of Ottawa, where he has also been a lecturer in Political Science.

Over the years, Paul-Émile has been an active member in the community and served on a number of Boards, including his current role on the Kemptville District Hospital Board.



**David Diamond**  
**President and Chief Executive Officer**  
**Eastern Health**

David Diamond joined Eastern Health as President and Chief Executive Officer on November 10, 2014. He has 27 years of experience in the health care system and has worked in both Newfoundland and Labrador and Alberta.

He came to Eastern Health from Alberta Health Services where he served from 2008 to 2014 in various roles including Chief External Relations Officer, Senior Vice President of Human Resources, Senior Vice President of Regional Hospitals, and Regional Liaison assisting with the transition from regional authorities to Alberta Health Services. Previous to joining Alberta Health Services, he was the Chief Operating Officer and Vice President for Suburban and Rural Communities for Capital Health, Edmonton from 2006 to 2008.

Mr. Diamond was also the founding Chief Executive Office at Central Health in Grand Falls-Windsor, NL, one of the four regional health authorities (RHAs) formed in Newfoundland and Labrador in 2005, and the Chief Operating Officer and Vice President of Human Resources with the Central West Health Authority from 1995 to 2005. Mr. Diamond began his career at St. Clare's Mercy Hospital in 1987 as Assistant Director of Human Resources following which he was appointed Director of Human Resources.

He holds a Master in Health Services Administration from the University of Alberta and a Bachelor of Commerce (Co-op) from Memorial University in St. John's, NL.



**Colleen Merchant**  
**Director General, Cyber Security**  
**Public Safety Canada**

Ms. Merchant has a rich background in science, technology and security. She began her career in 1986 at the Johnson Space Centre, where her time was spent in the Mission Control Centre as a flight controller specializing in multi-body trajectory analysis and rendezvous flight dynamics.

In 1993, she moved to the Canadian Space Agency where she was responsible for the development and implementation of their manned space flight control centre and integration of civilian and military space programs at DND.

Ms. Merchant moved to the Communications Security Establishment of Canada (CSEC) in 2004, and then joined the Treasury Board of Canada Secretariat's (TBS's) Chief Information Officer Branch in April 2011 as the Executive Director of Government Security.

Ms. Merchant returned to the Canadian Space Agency in September 2013 where she was the Director of Programs and Integrated Planning, and is now the Director General of National Cyber Security at Public Safety Canada.

Colleen received her Bachelor of Science in Aerospace Engineering from the University of Florida and completed graduate studies in Theoretical Physics from Rijksuniversiteit te Utrecht, the Netherlands and the University of Houston.



**Dr. Jennifer Zelmer,  
President  
Azimuth Health Group**

Dr. Jennifer Zelmer is President of Azimuth Health Group. In this capacity, she provides a range of advisory services to local, national, and international clients who seek to advance health and health care. In addition, she is the Editor-in-Chief of *Healthcare Policy*, an Adjunct Faculty Member at the University of Victoria, Faculty/Advisor to the Canadian Foundation for Healthcare Improvement, and serves on a range of health-related advisory committees and boards.

Prior to founding Azimuth Health Group, Jennifer held a series of progressively responsible leadership positions in Canada and abroad, mostly recently as Executive Vice President at Canada Health Infoway, where she was executive lead for the organization's national clinical adoption, innovation, consumer health, and communications programs, as well its Ontario investment portfolio. Before joining Infoway, Jennifer served as Chief Executive Officer of the International Health Terminology Standards Development Organization and as Vice President at the Canadian Institute for Health Information.

Jennifer received her PhD and MA in economics from McMaster University and her B.Sc. in health information science from the University of Victoria.



**Bill Tholl**  
**Senior Health Consultant**  
**Tholl Health and Leadership Consulting**

Bill Tholl currently serves as senior consultant and thought leader in health policy and leadership. Until July 2017 he served as the Founding President and CEO of HealthCareCAN: the voice of Canada's health care organizations and hospitals. Prior to this appointment in March 2014, Bill served as Founding Executive Director of the Canadian Health Leadership Network (2009-2014); CEO and Secretary General, Canadian Medical Association (2001-2008), and

CEO of the Heart and Stroke Foundation of Canada (1996-2001).

The *Globe and Mail* has described Bill as "Medicare's Mr. Fix-it". He is a sought-after speaker, being billed recently by CHLNet as a "leader of leaders" on the Canadian health scene.

He holds a graduate degree in health economics (University of Manitoba) and has written on many topics, most recently as the lead author of "Twenty Tips for Surviving and Prospering in the Association World" (2012) and co-author of "Bringing Leadership to Life in Health" (Springer, January 2014). He is the recipient of numerous national awards and is a Certified Corporate Director (ICD.D).

Born and raised in Saskatchewan, Bill and his wife, Paula, live in Ottawa and have three children and four grandchildren.



**Cédric Arcos**  
**Deputy General Manager**  
**French Hospital Federation**

Deputy CEO of Paris Region, in charge of healthcare affairs, Cédric ARCOS is graduated from Sciences Po, from the French National School of Public Health and from the High Institute for Social Protection.

He occupied different high responsibilities in French hospitals, as Human Resources Director of Academic hospital of Lyon and as Chief of staff of this hospital. For 6 years, from 2011 to 2017, Cédric Arcos was deputy CEO and CEO of the French Hospital Federation, the institution that, in France, represents all public hospitals. Cédric is in charge of teaching healthcare policies at Sciences Po Paris and the author of different books such as « ethics and management », published in Paris in 2010 and « Reforms of hospitals and Hospital reform » published in 2014. Very involved in international affairs, he was recently elected Governor of the International Hospital Federation and is also the Ambassador for healthcare relationships between France and Denmark.

**Dan Taylor**  
**Head of Security**  
**NHS Digital**

Dan Taylor leads NHS Digital's Data Security Centre (DSC) which is at the forefront of information and data security. Part of the DSC's role is to deliver secure by design applications and building awareness and understanding of personal and cultural responsibilities to securing data.

The DSC's Cyber Security Programme is delivering a number of projects to build cyber-security defence across the country; Dan and his team have brought into operation the CareCERT Intelligence service helping health and care respond to potential threats as cyber security becomes ever more important in our current age of technology. Training programmes and guidance continue to be delivered with new services such as CareCERT React and Assure being offered to early adopters in September 2016.

Dan has worked with NHS Digital and its forerunner operations since 2010 working at a national level delivering change through a number of nationwide programmes, having previously worked across the NHS in management and leadership roles since 2004.



**John Riggi**  
**Senior Advisor on Cyber Security and Risk**  
**American Hospital Association**

John Riggi, having spent nearly 30 years as a highly decorated veteran of the FBI, serves as the Senior Advisor for Cybersecurity and Risk for the American Hospital Association (AHA) and their 5000+ member hospitals. In this role John serves as a resource nationally to assist members identify and combat cyber and other sources of risk to their organizations. Additionally, John will support the AHA's policy efforts and Federal agency relations on cyber and other risk related issues. Previously, John led BDO Advisory's Cybersecurity and Financial Crimes Practice. While at the FBI, John served as a representative to the White House Cyber Response Group. He also led the FBI Cyber national program to develop mission critical partnerships with the healthcare and other critical infrastructure sectors for the investigation and exchange of information related to national security and criminal-related cyber threats.

John held a national strategic role in the FBI investigation of the largest cyber-attacks targeting healthcare, energy, entertainment, technology, financial services, government and other sectors. John led BDO's exclusive engagement with the AHA to provide cybersecurity training for their 5000+ member hospital CEOs. John is also a governing chair on the Health Information Trust Alliance (HITRUST) initiative to develop the healthcare sector's first cyber threat catalog.

In addition, he serves as an official private sector validator for the White House's Presidential Policy Directive (PPD)-41 on U.S. Cyber Incident Coordination. The PPD is designed to foster an improved working relationship between the public and private sectors.

Previously in his career, John served in leadership positions in the FBI's Washington Office Intelligence Division, the New York Office Joint Terrorist Task Force, and the High Intensity Financial Crimes Area Task Force and was the National Operations Manager for the FBI's Terrorist Financing Operations Section. He also served as a senior FBI representative to the CIA's Counterterrorism Center. John is the recipient of the FBI Director's Award for leading a highly successful classified terrorism financing interdiction program and the recipient of the CIA George H.W. Bush Award for Excellence in Counterterrorism, the CIA's highest counterterrorism award. John presents extensively on cybersecurity topics and is frequently interviewed by the media on cybersecurity issues.

**Francis Bradley**  
**Chief Operating Officer**  
**Canadian Electricity Association**

*Bio not available.*



**Ray Boisvert**  
**Provincial Security Advisor**  
**Government of Ontario**

As the Provincial Security Advisor for Ontario, Ray provides advice and intelligence on areas of public safety and national security that fall within provincial responsibility. He supports efforts to protect provincial assets from events that could affect services, networks, and facilities that are critical to Ontario's economy, public safety and security, and engages with key partners on security related matters.

Previously, as president of I-Sect Integrated Strategies (ISECIS), Ray worked with a variety of client organizations to help them gain a deeper understanding of intelligence and security matters in a global context, and the impact on their operating environments. He delivered business intelligence solutions affecting core challenges such as cyber and insider threats, while guiding resilience building around the principles of pro-active defence. He also consulted on Mergers and Acquisitions with potential National Security complexities.

After five years in federal policing, Ray joined the Canadian Security Intelligence Service (CSIS) in 1984 and retired in 2012 as the Assistant Director, Intelligence. During his tenure, Ray was involved in broad facets of security intelligence operations, from leadership of the Counter Terrorism domain, to driving national security priorities pertaining to Operational Risk management, Data Exploitation programs, Human Source management, Foreign Collection framework and all Special Operations efforts.



**Jeff Curtis**  
**Chief Privacy Officer**  
**Sunnybrook Health Sciences Centre**

Dr. Jeff Curtis is the Chief Privacy Officer for Sunnybrook Health Sciences Centre, one of Canada’s preeminent acute care, research and teaching hospitals located in Toronto.

Jeff is a Director in the Hospital’s Information Services Group, responsible for information privacy assurance, freedom of information compliance, IT governance and risk management, and corporate strategic planning activities. Jeff was also seconded as the Privacy and Security Officer for the *Hospital Diagnostic Imaging Repository Services (HDIRS)* in Ontario, a diagnostic imaging repository for 35 hospitals across four local health regions.

Jeff was the Privacy and Security Lead for eHealth Ontario’s *Diagnostic Imaging Common Services* project, was a member of eHealth’s *Identity, Access and Privacy Advisory Panel* and has consulted to Canada Health Infoway on its *Consent Management Advisory Panel* and on its recent *Blueprint Refresh Committee*. Jeff is currently a member of eHealth Ontario’s Connecting Ontario privacy Committee.

Jeff has been a member of the *Advisory Panel* and a guest lecturer for the Osgoode Hall Law Society’s Certificate in Health Law, and regularly presents in public forums on IT governance, information technology risk, and the privacy and security implications for health care providers and patients. Jeff is currently a member of the Steering Committee to establish the Health Sector Critical Infrastructure and Cyber Security Network in conjunction with the Public Health Agency of Canada’s Office of Emergency Response Services.

Jeff has worked in the information technology sector for the past 25 years and is a *Certified Information Systems Security Professional (CISSP)*, is *Certified in the Governance of Enterprise IT (CGEIT)* and is *Certified in Risk and Information Systems Control (CRISC)*. In 2013 Jeff was recognized as a “Privacy by Design Ambassador” by the Information and Privacy Commissioner of Ontario.

Dr. Curtis has an undergraduate degree in Economics and an MBA from the University of Toronto, a MSc. in Business Management Research and a DBA from the University of Reading, U.K. Jeff’s research focus is on decision-making under uncertainty applied to information privacy and security control design and selection.

**Jim Patterson**  
**Partner**  
**Bennett-Jones, LLP**

Jim Patterson has a general litigation practice with a strong emphasis on civil fraud. He is co-leader of the firm's fraud law practice.

Jim acts in a variety of litigation matters, including internal and special committee investigations, complex contractual disputes, class actions, professional negligence, insurance coverage and reinsurance matters, commercial arbitrations, fidelity insurance claims, directors' and officers' insurance issues, foreign corrupt practices investigations, shareholder disputes and corporate governance issues.

Jim is counsel to several financial institutions and also acts for corporate and private victims of fraud. Jim conducts large-scale fraud investigations, including working with internal and external auditors, receivers, trustees in bankruptcy and special committees. He has significant expertise in recovery issues related to fraud including, Mareva injunctions, Anton Piller orders, international asset tracing, fraudulent conveyances, offshore banking and money laundering, restitution orders, Norwich Pharmacal orders and proceeds of crime.

Jim has appeared before the courts of a number of provinces and in all levels of court, including the Ontario Court of Appeal and the Supreme Court of Canada.

Corporate and individual clients benefit from Jim's counsel on all aspects of integrity issues, including both regulatory and internal compliance.

He is a frequent lecturer on fraud issues to various police, corporate security and other fraud investigators and international conferences.

Jim is editor of the White Collar Crime Section in *Legal Alert – Current Legal Developments Critical to Corporate Management* (Carswell).



**Brendan Seaton**  
**President**  
**ITAC Health**

Brendan Seaton is the President of ITAC Health, the health care division of the Information Technology Association of Canada (ITAC). He is one of Canada's leading experts in the management of eHealth privacy, security, and safety. In addition to his work at ITAC, he is the founder of Privacy Horizon, a company dedicated to providing privacy and security education, tools and resources for Canadian healthcare organizations and companies. Brendan has more than 30 years experience in health service administration, information system project management and information privacy and security in both the public and private sectors.

As a principal instructor, with the National Institutes for Health Informatics, Brendan has trained more than 1500 privacy and security officers and specialists from across Canada, teaching workshops on eHealth privacy, security and risk management. He is a Certified Information System Security Professional, a Certified Information Privacy Professional, and is certified in Risk and Information System Controls.



**Kevin Magee**  
**Global Security Strategist**  
**Gigamon**

A prolific educator and blogger, Kevin Magee writes and speaks extensively, often guest lecturing and advising on curriculum development for cyber security, cybercrime and security awareness programs for several Canadian colleges, universities and industry associations, including the Governance Centre of Excellence and the Healthcare Information and Management Systems Society (HIMSS).

Over the past 20 years, Kevin has methodically built his technology and security expertise, having held senior positions at industry giants such as Gigamon, Splunk, Palo Alto Networks, Oracle and Hewlett-Packard, and has grown his governance and strategic business acumen as a startup CTO, member of the Board of Directors of the Brant Community Healthcare System, entrepreneur in residence at Laurier University, advisor in the Life Sciences and Healthcare practice at MaRS, and advisor to Hacking Health.