

OTTAWA AUTONOMOUS VEHICLE SUMMIT 2018

PROGRAM GUIDE AND SPEAKERS



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APRIL 4, 2018

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OTTAWA

AUTONOMOUS VEHICLE SUMMIT 2018

Agenda

THE 3RD ANNUAL OTTAWA AV SUMMIT

Presented by the Kanata North Business Association and Invest Ottawa, in partnership with the Canadian Automated Vehicles Centre of Excellence

Brookstreet Hotel, Kanata ON | April 4, 2018

SUMMIT PROGRAM

TIME	AGENDA
8:00am	Registration, breakfast and networking
8:30am	<p>Opening Remarks from the Emcees <i>Amy MacLeod</i>, Chair of the Kanata North Business Association, and Vice President Corporate Communications at Mitel <i>Sonya Shorey</i>, Vice President, Marketing and Communications, Invest Ottawa and Bayview Yards</p>
8:35am	<p>Welcome <i>Michael Tremblay</i>, President and CEO, Invest Ottawa and Bayview Yards</p>
8:40am	<p>Keynote: Mobility for Everyone <i>David Keene</i>, CEO, RDM Group and Aurrigo Canada</p>
8:55am	<p>Keynote: Autonomous Vehicles Readiness Index, Assessing Countries' Openness and Preparedness for Autonomous Vehicles <i>Chris Sainsbury</i>, National Infrastructure Lead for Smart Cities and Disruptive Technologies, KPMG Canada</p>
9:15am	<p>Panel #1: Charting AV/CV Technology Opportunities and Challenges Fasten your seatbelts — we are entering the Car 2.0 era. The first generation of automated, connected and electric vehicles are in commercial operation in many countries around the world, and more advanced versions are now in development. The technology and automotive industries in Ottawa, across Ontario and Canada more broadly are very well positioned to capture a significant share of the estimated \$10 trillion global mobility market. This panel will discuss key technology opportunities and challenges facing the AV/CV industry.</p> <p>Moderator <i>Richard Waterhouse</i>, Chief Operating Officer, Centre of Excellence in Next Generation Networks (CENGN)</p> <p>Panelists <i>Peter Johnston</i>, Global Head of Products, Connected Transport, Irdeto <i>Scott Bradley</i>, Chair, 5G Canada Council, Canadian Wireless Telecommunications Association <i>Dr. Halim Yanikomeroglu</i>, Professor, Systems and Computer Engineering, Carleton University <i>Dr. Melike Erol-Kantarci</i>, Assistant Professor, School of Electrical Engineering and Computer Science, University of Ottawa</p>

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10:15am	Coffee break and networking
10:45am	<p>Panel #2: Smart Transportation for Smart Cities: Urban Planning and Emerging Mobility Trends</p> <p>Our cityscapes and transportation systems are changing rapidly. Autonomous vehicles, the Internet of Things and smart cities are creating new capabilities and services, and transforming urban mobility. To capitalize on the benefits of this evolution, city planners must be visionaries and reimagine municipal mobility systems. These leaders are called upon to define a new vision for their region, and secure the resources and investment required to realize it. This panel will discuss emerging local, national and global trends in urban, transportation and infrastructure planning that are paving the way for the AV revolution.</p> <p>Moderator <i>Barrie Kirk, Executive Director, Canadian Automated Vehicles Centre of Excellence (CAVCOE)</i></p> <p>Panelists <i>Neal Hemenover, Chief Information Officer, Transdev North America</i></p> <p><i>Sanya Sidhu, Senior Project Development Officer, Canadian Urban Transit Research and Innovation Consortium (CUTRIC)</i></p> <p><i>Jeff Westeinde, President, Zibi Canada</i></p> <p><i>Mark Laroche, President & CEO, Ottawa International Airport Authority Director, Traffic Services, City of Ottawa</i></p>
11:45am	<p>Ottawa Researchers Project Pitch Session</p> <p>Research leaders from Ottawa's outstanding post-secondary institutions will take the stage to pitch key research project concepts — each in 5 minutes or less! You will hear directly from leaders at Carleton University, the University of Ottawa, Algonquin College, Université du Québec en Outaouais (UQO), and La Cité. If you are an AV innovator, entrepreneur, SME, or multinational firm seeking new expertise, innovations or R&D partners, you will not want to miss this rapid-fire pitch session!</p> <p>Presenters <i>Sandra Crocker, Associate Vice-President, Strategic Initiatives and Operations, Carleton University</i></p> <p><i>Jacques Beauvais, Dean of Engineering, University of Ottawa</i></p> <p><i>Cristina Holguin-Pando, Director Partnerships, Applied Research & Innovation, and Entrepreneurship, Algonquin College</i></p> <p><i>Robert Crawhall, Strategic Advisor, Collège La Cité, Smart Prototyping Initiative</i></p> <p><i>Giancarlo Colmenares, Department of Computer Science and Engineering, Université du Québec en Outaouais (UQO)</i></p>
12:15pm	Networking Lunch

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TIME	AGENDA
1:45pm	<p>Panel #3: Creating Policies for a New AV World</p> <p>Road and citizen safety. Accident mitigation. Standards. On-road licensing and approvals. Insurance implications. The AV revolution is unleashing a world of unprecedented of regulatory and legislative requirements.</p> <p>The regulation of AVs on public roads falls under the purview of the federal, provincial and municipal governments — and significant regulatory and legislative changes are required. One of the greatest challenges facing policymakers: how to balance safety concerns and infrastructure evolution with the need to adapt, innovate and exploit the economic and social advantages of AVs.</p> <p>This panel will explore how provincial, federal and international regulators and legislators are preparing to implement the policy changes required to ensure the successful deployment of AVs and CVs, and the safety of citizens.</p> <p>Moderator <i>Margaret Parent, Director, Professionals' Division, The Insurance Institute of Canada</i></p> <p>Panelists <i>Senator Dennis Dawson, Deputy Chair, Standing Senate Committee on Transport and Communications</i></p> <p><i>Emmanuel Chabot, Director of Innovation Policy, Transport Canada</i></p> <p><i>Ryan Stein, Director of Policy, Insurance Bureau of Canada</i></p> <p><i>Andrew Sedor, Senior Executive Advisor, Transportation, City of Calgary</i></p> <p><i>Phil Landry, Director, Traffic Services, City of Ottawa</i></p>
2:55pm	Refreshments and networking
3:25pm	<p>Panel #4: Ottawa 2.0: The Evolution of Canada's AV Capital</p> <p>Ottawa is Canada's AV Capital and an epicenter of AV innovation. The region is home to more than 80 SMEs, multinationals, post-secondary institutions, and other organizations contributing a wealth of expertise, technology and intelligence to AV/CVs of the future. This panel will provide an overview of Ottawa's AV ecosystem, highlighting key players and R&D capabilities, and how it is attracting global AV business to our region. It will also provide an overview of how Ottawa is preparing to establish the first end-to-end integrated AV test environment of its kind in North America.</p> <p>Moderator <i>Kelly Daize, Market Director of the Americas, Invest Ottawa</i></p> <p>Panelists <i>Brian Pratt, Head of Verticals and Webscale, Strategic Partnerships, Corporate Strategy and Development, Nokia</i></p> <p><i>Chris Bachalo, Director of Service Provider, Cloud Solutions, Juniper Networks</i></p> <p><i>Grant Courville, Head of Product Management, Automotive and Embedded BlackBerry QNX</i></p>
4:25pm	Closing Remarks <i>His Worship Jim Watson, Mayor of Ottawa</i>
4:30pm	Networking Reception

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Emcees

Amy MacLeod

Chair of the Kanata North Business Association, and Vice President Corporate Communications at Mitel

Amy MacLeod is a seasoned strategic communicator, issues strategist, and trusted advisor to business and public leaders, with 25 years in Ottawa's political and private sectors. She is currently a member of the Mitel executive leadership team and the senior communications executive at Mitel.

An agile business leader and strategic messaging architect, Amy specializes in translating complex business, financial, and technical developments into global communications programs and messaging frameworks that support strategic priorities. Her expertise spans all aspects of stakeholder communications, both external and internal, from M&A, strategic issues management, corporate messaging, analyst, government, and public relations, and executive and employee communications.

Prior to joining Mitel, Amy held senior communications roles at General Dynamics Canada, Alcatel-Lucent, and Newbridge Networks. She started her career in the political sector as a senior staffer for a Member of Parliament. Amy currently serves as Chair of the Board of Directors of the Kanata North Business Association. She is also a member of the Board of MiQro Innovation Collaboration Centre (C2MI).

Amy earned a B.A. in Political Science from the University of Waterloo (Ontario, Canada). She also completed post-degree studies in law and history from Carleton University (Ottawa, Canada) and the Executive Development Marketing Program at Queen's University.

Sonya Shorey

Vice President, Marketing and Communications, Invest Ottawa and Bayview Yards

Sonya Shorey, Vice President of Marketing and Communications with Invest Ottawa and Bayview Yards, is a communications executive and management consultant with more than 19 years of leadership experience with private and public organizations. With expertise in regional, national and global technology, entrepreneurial, economic development and innovation-based organizations, she specializes in corporate and communications strategy development and execution.

Sonya launched her career as the Manager of Communications and Member of the Vice-Presidential Cabinet with the 10G Organization of Optical Networks for Nortel from 1999 to 2002, and then as the Director of Marketing Communications for CMC Microsystems until 2007. Building on a decade of experience, Sonya launched her own strategy company in 2008, addressing the needs of S&T organizations, innovation, entrepreneurship and economic development agencies across Canada, and their partners around the world. She currently serves as the Vice President of Marketing and Communications for Invest Ottawa, lead economic development agency for Canada's Capital, and Bayview Yards, Ottawa's one-stop business acceleration shop.

Sonya holds a Bachelor of Arts, Combined Honours in English and Political Science from Carleton University, and has won nine international awards for her work in communications.

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Guest

Michael Tremblay

President and CEO, Invest Ottawa and Bayview Yards

Mr. Tremblay brings more than 30 years of executive leadership experience with multinational corporations to Invest Ottawa and its stakeholders, most recently from Microsoft Canada where he served as Vice President, Public Services for over a decade. As part of this Fortune 100 company, he led and drove the growth of public sector business; collaborated extensively with employees, partners and customers; and contributed to Microsoft's Canadian leadership team.

Prior to joining Microsoft, he served as a Senior Vice President with SAP Canada and Fujitsu Consulting, and as a Vice President with JDS Uniphase, EDS Systemhouse and Digital Equipment Corporation. An Ottawa native, Mr. Tremblay is also deeply engaged in the community, contributing to the Algonquin College Board of Governors and Foundation Board for more than 13 years, and audit and advocacy committees with the Children's Hospital of Eastern Ontario for the last six years.

His Worship Jim Watson

City of Ottawa Mayor

Mayor Watson has dedicated most of his career to public service in Canada's capital. As an active member of his community, Watson has served on the boards or as honorary chair of several community organizations. He was a former Ottawa city councillor in 1991, and was re-elected in 1994. He was a Member of Provincial Parliament for Ottawa West-Nepean and appointed to cabinet as Minister of Consumer and Business services. Watson was re-elected Mayor of the City of Ottawa in October 2014. His years of active involvement and community service have made him the recipient of several awards and accolades.

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Keynote

David Keene

CEO, RDM Group and Aurrigo Canada

David founded RDM Group in 1993 and now has 8 companies with a combined turnover of more than £30m, employing approximately 145 people across locations in the UK, France, Australia, USA and now Canada.

In 2016 he was awarded visiting Professor status at Coventry University in Autonomous Vehicles and is regularly interviewed as an authority on automotive design, manufacturing and autonomous technology.

David sits on the board of the UK Automotive Council, which sets automotive policy and strategy in the UK and is an engineer at heart, passionate about new technology, product development and manufacturing.

His company, Aurrigo, is spearheading the design, development and manufacture of low speed autonomous pods, in first / last mile solutions, for both public and logistics applications.

Chris Sainsbury

National Infrastructure Lead for Smart Cities and Disruptive Technologies, KPMG Canada

Chris Sainsbury is the National Infrastructure Lead for Smart Cities and Disruptive Technologies for KPMG in Canada. Based out of Vancouver, Chris advises clients in the Municipal and Transportation sector on strategy and policy development, business transformation and infrastructure management. Working with high profile clients in major cities such as Vancouver, Toronto, London and New York, Chris brings global insight and expertise into a challenging sector with a rapidly changing landscape, bridging the gap between traditional infrastructure and emerging technologies. Prior to joining KPMG, Chris worked for the UK Department for Transport where he was a senior policy advisor, heavily involved in the rollout of regional transportation strategies.

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Speakers

Chris Bachalo

Director of Service Provider, Cloud Solutions, Juniper Networks

Chris Bachalo is currently the Director of Service Provider Cloud Solutions for Juniper Networks. Mr Bachalo has accumulated 25 years of experience in the telecom industry. He joined Juniper in 2010 as CTO for Juniper Canada, from Alcatel-Lucent (and former Newbridge Networks) where he was VP of Systems Engineering for 17 years. Chris is focused on building advanced telecommunications solutions for service providers and large enterprise. He is also heavily engaged in academic telecommunications research and participates in multiple industry advisory boards including: CENGN (Center of Excellence for Next Generation Networking) Industry/Commercial Advisory Boards and Board of Directors, Algonquin College Photonics and Laser Technology Advisory Board, BRIC/University of Regina (Bridging Research and Interoperability Center) Public Safety Communications Advisory Board, SAVI/University of Toronto/York University (Smart Applications on Virtual Infrastructure) Industry Advisory Board, Invest Ottawa ICT Industry Sector Advisor, BCNet Industry Advisor, Emermotion Inc co-founder/co- author of primary patent, and University of Toronto Masters of Engineering in Telecommunications Advisory Board. Chris has a BAsC in Electrical Engineering from the University of Windsor and studied at the University of Toronto toward an MEng in Electrical Engineering. *(Panel 4)*

Jacques Beauvais

Dean of Engineering, University of Ottawa

After graduating from the University of Ottawa with a bachelor's degree (Physics, 1985) and a master's degree (Physics, 1987), Jacques Beauvais obtained his Ph.D. from Université Laval (Physics, 1990). He was then appointed as professor in electrical engineering at the Université de Sherbrooke (UdeS) in 1993. Co-author of seven patents on micro/nanofabrication of electronic devices, his research activities formed the basis of a startup company, Quantiscript inc., where he was president from 1999 to 2004. Since 2007, his research activities have focused mainly on developing carbon nanotube based sensors for tactile interfaces, and with an interdisciplinary research group he has also studied the social acceptability of new technologies. In 2017, he ended an almost 10-year term as Vice-president, Research, Innovation and Entrepreneurship at UdeS. He was responsible at UdeS for the development of the concept, the funding and the launch of the MiQro Innovation Collaborative Centre (C2MI) in Bromont, Québec, in partnership with IBM Canada and Teledyne Dalsa Semiconductors. He was a board member of C2MI from 2012 to 2017 and he is presently a board member of Mitacs. On July 1st, 2017, he was appointed Dean of the Faculty of Engineering at the University of Ottawa. *(Project Pitch Session)*

Scott Bradley

Chair, 5G Canada Council, Canadian Wireless Telecommunications Association

Since joining Huawei Canada in 2011, Scott has helped lead Huawei's emergence as a key contributor to Canada's telecommunications industry. Scott manages all external-facing functions for the organization, including public affairs, marketing communications and government relations. He is also the lead spokesperson for the company in Canada.

Scott is a regular speaker and moderator on Canada-China related business issues for the Canada China Business Council, the Asia Pacific Foundation, and the China-Canada Chamber of Commerce. He serves as a member of the Board of Directors for the Canada China Business Council, and the Canadian Wireless Telecommunications Association. He also serves as Chair of the newly formed 5G Canada Council. Scott has previously been recognized by IT World Canada's CDN Magazine as one of Canada's Top 25 newsmakers in ICT, and has twice recognized by Hill Times as one of Canada's Top 100 lobbyists. *(Panel 1)*

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Emmanuel Chabot

Director of Innovation Policy, Transport Canada

Mr. Emmanuel Chabot has been Director, Innovation Policy at Transport Canada since July 2015. In this capacity, he is responsible for transportation policy development in the innovation sector, paying particular attention to disruptive technologies. Throughout Mr. Chabot's career, he has had the opportunity to occupy positions of senior leadership at Health Canada, Public Safety and finally at Transport Canada. Mr. Chabot holds a Bachelor of Arts degree with Honours in Communications from the University of Ottawa. *(Panel 3)*

Giancarlo Colmenares

Department of Computer Science and Engineering, Université du Québec en Outaouais (UQO)

Giancarlo Colmenares has a MSc in Computer Science and it's a PhD Candidate at University of Quebec. His research focus is in solutions for road safety and collision avoidance for self-driving cars, with various publications in journals and conferences in the field of AI and Intelligent Transportation Systems. Also, he's part of the first cohort of graduates from the Self-Driving Car Nanodegree at Udacity. His interests include Computer vision projects using Deep-Learning, and supporting startups with conversational interfaces such as bots and Alexa Skills. *(Project Pitch Session)*

Grant Courville

Head of Product Management, Automotive and Embedded BlackBerry QNX

A successful professional with over 25 years of experience across many industry sectors and a recognized leader in the area of connected and autonomous car technology and innovation. Grant responsible for setting and executing the company's global product roadmap strategy. The primary focus is connected and autonomous vehicles powered by software platforms for Infotainment, Instrument Clusters, Telematics, Acoustics, ADAS/Safety, connected services and automotive cybersecurity — a complete vehicle software platform in support of the emerging software defined car. In his career, Grant has successfully held many senior leadership and individual contributor roles in engineering, strategy, marketing and sales in the automotive, defense & aerospace and general embedded markets. *(Panel 4)*

Robert Crawhall

Strategic Advisor, Collège La Cité, Smart Prototyping Initiative

Robert is an innovation executive and consultant who works with ecosystem partners in academia, government and the private sector. His current focus is on college innovation and superclusters. He sits on the Board of Cilex (the Gatineau incubator), NanoOntario, Abipa Aerospace and the Canadian Association for Security and Intelligence Studies. He was previously CEO of the National Capital Institute of Telecommunications and of NanoQuébec. Robert started his engineering career in robotics and automation before joining BNR/Nortel where he held various technology development roles in EMI/EMC and physical design leading to his position as Director of Disruptive Technologies. He has a PhD in Electrical Engineering from the University of Ottawa, a Master's in Electrical and Bachelor's in Mechanical Engineering from McGill University. He is a senior Member of the IEEE, a Professional Engineer in the Province of Ontario. *(Project Pitch Session)*

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Sandra Crocker

Associate Vice-President, Strategic Initiatives and Operations, Carleton University

Sandra Crocker was appointed to the newly created position of Associate Vice-President (Research Planning and Operations) in May 2011. Reporting to the Vice-President (Research & International) she is part of the senior management group responsible for planning, developing and implementing a comprehensive research support strategy for Carleton.

Ms. Crocker has an accomplished career in research management, most recently holding positions at McGill University as Assistant Vice-Principal (Strategic Planning and Partnerships) in the Office of the Vice-Principal (Research and International Relations). Prior to this she had a long career at Queen's University culminating as Associate Vice-Principal (Research), where she was responsible for promoting research initiatives involving cross-disciplinary teams of researchers and external industrial and community partners.

She currently holds positions on the Boards of Directors of the Sudbury Neutrino Observatory Institute, the Consortia Advancing Standards in Research Administration, the Consortium for Aerospace Research and Innovation in Canada, as well as the Centre of Excellence in Next Generation Networks. She is a member of CANARIE's Software Technology Advisory Committee, OAC's Research & Technology Committee, AIAC's Innovation and Technology Committee and AGEWELL's Committee for Technology Development and Commercialization. Most recently, she has joined the Advisory Board for NRC's Construction Research Centre. *(Project Pitch Session)*

Kelly Daize

Market Director of the Americas, Invest Ottawa

Kelly has over 20 years of experience in both technology companies and not-for-profit organizations. In her role at Invest Ottawa, Kelly is responsible for the attraction of investment, companies and people to the region, the branding and marketing of Canada and support for hundreds of telecommunication companies. She has successfully won and managed large government programs, and has a proven track record working with all levels of government. Kelly has an extensive network of contacts—both in Canada and abroad—and has led trade missions to high technology centres around the globe. Prior to joining Invest Ottawa, Kelly held progressively senior roles in legal, sales and business development in organizations such as QNX, Corel Corporation, Nortel spinoff NetActive and CENGN. *(Panel 4)*

Senator Dennis Dawson

Deputy Chair, Standing Senate Committee on Transport and Communications

Dennis Dawson was born in Quebec City on September 28, 1949. He studied political science at Laval University and at the University of Ottawa where he completed his Bachelor's degree. He also earned a Master's in Business Administration (MBA) at Laval University. He began his career in public life as one of the youngest elected school board trustees in Quebec, before becoming President of Quebec's second largest school board, the Quebec City Catholic school board.

Mr. Dawson was appointed to the Senate in August 2005 on the advice of Prime Minister Paul Martin. He represents the Senate division of Lauzon in Quebec. Since his appointment, he has contributed to a number of standing and special committees such as Foreign Affairs and International Trade. He has been chair of the Senate Standing Committee on Transport and Communications since the 3rd session of the 40th Parliament. He is a member of the executive of the Association des parlementaires de la francophonie, was co-chair of the Canada-Arab World Parliamentary Association, and is a member of the executive committee of the Canadian Inter-Parliamentary Union group. *(Panel 3)*

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Dr. Melike Erol-Kantarci

**Assistant Professor, School of Electrical Engineering and Computer Science,
University of Ottawa**

Dr. Melike Erol-Kantarci is Assistant Professor at the School of Electrical Engineering and Computer Science at the University of Ottawa. She is the founding director of the Networked Systems and Communications Research (NETCORE) laboratory. She is also courtesy assistant professor at the Department of Electrical and Computer Engineering at Clarkson University, Potsdam, NY. She is the co-editor of two books "Transportation and Power Grid in Smart Cities: Communication Networks and Services" from Wiley and "Smart Grid: Networking, Data Management and Business Models" from CRC Press. She has delivered more than 20 invited talks and tutorials around the globe. She is the vice-chair of Green Smart Grid Communications group of IEEE TC on Green Communications and Computing, and the research group leader of IEEE Smart Grid and Big Data Standardization. *(Panel 1)*

Neal Hemenover

Chief Information Officer, Transdev North America

As Chief Information Officer, Neal is responsible for the technological direction of the company and contributes in all areas of business management and growth strategies through leadership for all operating divisions in North America. This includes management of all traditional IT responsibilities including data centers, technical service centers, help desks, communication networks (voice and data), application development, and oversight of all IT projects in North America. Neal works as a member of the innovation department in Transdev to identify business issues and find solutions that can transform the transportation business.

In addition to the traditional CIO duties Neal is in charge of, he has taken on a lead role of Autonomous Vehicle work in North America. Neal is responsible for helping drive the North America AV team for executing a roadmap that includes the integration of AV's into the services that Transdev provides. Neal also works closely with the Transdev Global team to execute on the global AV roadmap. *(Panel 2)*

Peter Johnston

Global head of products for Connected Transport, Irdeto

Peter graduated from Queen's University at Kingston, in 1983, where he received a Bachelor of Applied Science in Applied Mathematics and Engineering. Peter's work experience has included Software Design, Systems Engineering, Technical Management and Product Management. He has held positions within Bell Northern Research, Cantel, which later evolved into Rogers' Wireless, Nortel, Curtiss-Wright as well as TELUS Health. He has been a Product Manager for International Gateways, IPTV solutions, IP Core Networks as well as Clinical Information Systems. His extensive International experience has led him to do business in over 40 countries. In 2014, he joined Irdeto as Director of Product Management where he was responsible for the Digital Rights product line. He then fulfilled the role of Director, Studios and Advanced Solutions where he split his time between North Hollywood and North Kanata. He is currently in the role of Global Head of Products, Connected Transport, where he has responsibility for the complete lifecycle of all Irdeto's security products destined for the Connected Transport market. *(Panel 1)*

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Raed Kadri

Director, Automotive Technology and Mobility Innovation at Ontario Centres of Excellence (OCE)

Raed Kadri is Director of Automotive Technology and Mobility Innovation at Ontario Centres of Excellence (OCE). He leads the Automotive and Mobility portfolio which includes the Autonomous Vehicle Innovation Network (AVIN) initiative, which will ensure that Ontario unlocks the economic potential of connected/autonomous vehicles (C/AV) including urban and smart mobility, transportation systems and enabling infrastructure technologies and will help Ontario's transportation systems and infrastructure prepare for the deployment and adoption of these emerging technology.

Raed also leads the Automotive Supplier Competitiveness Improvement Program (ASCIP), which seeks to increase the sourcing capabilities of Ontario-based small and medium sized automotive suppliers, while encouraging innovation and productivity initiatives that increase success in export markets.

Raed is a graduate in Industrial Engineering from the University of Windsor. He later earned a Master of Science in Industrial Engineering from Wayne State University in Detroit as well as a Master of Science in Business and Management Research from Henley Business School in the UK. He is currently pursuing his Doctorate in Business Administration at Henley Business School. *(Panel 4)*

Barrie Kirk

Executive Director, Canadian Automated Vehicles Centre of Excellence (CAVCOE)

Barrie Kirk, P.Eng. is the Executive Director of the Canadian Automated Vehicles Centre of Excellence (CAVCOE). He has worked in the technology industries in Canada, the U.S. and the U.K., including senior management positions in Ottawa-area companies. He is a well-known consultant, speaker and broadcaster on automated vehicles. His other roles include the Board of Directors of Unmanned Systems Canada, the Automotive Advisory Board of Centennial College, Co-Chair of the 2017 IEEE Vehicular Technology Conference, and the Canadian Advisory Committee for ISO TC204. Barrie received a B.Sc. (Honours) in Electrical Engineering from Coventry University, U.K. and is a Professional Engineer. *(Panel 2)*

Phil Landry

Director, Traffic Services, City of Ottawa

Phil Landry is currently Director of Traffic Services at the City of Ottawa. After graduating from the University of Ottawa in Civil Engineering in 1993, Phil began his career in the Traffic Operations Branch at the former Region of Ottawa Carleton as a Traffic Signal timing engineer. Since that time, he has worked in numerous positions within the Region then the City of Ottawa including traffic operations, traffic management, traffic safety and investigations and project management. *(Panel 3)*

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Mark Laroche

President & CEO, Ottawa International Airport Authority

In March 2013, Mark Laroche was appointed President & CEO of the Ottawa International Airport Authority. Since joining the organization, Mr. Laroche has been instrumental in transforming the Strategic Directions of the organization, resulting in improved non-aeronautical revenues, implementing processes to optimize operational performance and ensuring that the Authority is a leader in the areas of safety and security.

Previously, Mr. Laroche served in several senior positions in various municipal governments and with Canada Lands Company Limited. His accomplishments include several award-winning community development projects in major cities across Canada, operating unique assets such as the CN Tower and Intercontinental Hotel in Toronto, launching new tourism attractions such as EdgeWalk on the CN Tower and the successful negotiation of a long-term land lease with Ripley Entertainment for the construction of the world class aquarium in Toronto.

Mr. Laroche holds a master's degree in business administration and a civil engineering degree. He also served on various not-for-profit boards. *(Panel 2)*

Margaret Parent

Director, Professionals' Division, The Insurance Institute of Canada

Margaret has worked for the Insurance Institute of Canada for over 12 years, overseeing the graduate community nationally (aka the CIP Society), the Institute's Research Division, and the Institute's Career Connections and mycareer programs – which help address the talent issues in the p&c insurance industry in Canada.

The Institute's Research Division commissions and publishes an annual Emerging Issues Research Report, providing insightful research on the issues impacting the P&C insurance industry in Canada. When the Institute published its 2016 research report on Automated Vehicles: Implications for the Insurance Industry in Canada, we entered into the AV discussion, and brought with us the insurance industry.

The other reports in the series include cyber risks (2015) and sharing economy (2017) – which also lend insight to the big issues that will have an impact on AVs. The Institute's Emerging Issues Research Report on Automated Vehicles is available at: www.insuranceinstitute.ca/research.

Prior to joining the Institute, Margaret had more than 20 years' experience as a Communications professional working predominantly within professional associations/membership organizations. *(Panel 3)*

Brian Pratt

Head of Verticals and Webscale, Strategic Partnerships, Corporate Strategy and Development, Nokia

Brian Pratt holds 30+ years of experience in technology businesses: telecom (IP/web, Ethernet, optical transport), cyber security, analytics, online advertising, software; focused on telecom service providers (wireline, wireless), enterprises, research & education. *(Panel 4)*

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Andrew Sedor

Senior Executive Advisor, Transportation, City of Calgary

Andrew Sedor is the Senior Executive Advisor to the General Manager of Transportation at the City of Calgary. In this role, he co-authored the "Future of Transportation in Calgary" Council Report and led a number of transportation technology and economic development initiatives. Prior to his role in the GM Office, he worked on the Green Line LRT team as a Senior Planner. Andrew holds a master's degree from the University of Cambridge in Urban Planning and wrote his thesis on the integration of the autonomous vehicle mode into regional transportation models. *(Panel 3)*

Sanya Sidhu

Senior Project Development Officer, Canadian Urban Transit Research and Innovation Consortium (CUTRIC)

Ms. Sidhu is a PhD candidate studying Cognition and Learning at the joint PhD program from Brock, Lakehead and Windsor Universities. She holds a MSc. in Integrative Biology from Wilfrid Laurier University and a BSc. (Biology & Psychology) from McMaster University, as well as a BEd. from Lakehead University. She has several years of research and teaching experience and has authored papers in Journal of Evolutionary Biology and Comparative Biology and Physiology. In addition, she has held sessional lecturer positions at Lakehead University.

Ms. Sidhu represents CUTRIC in Eastern Canada, working with academic and industry stakeholders in urban transit research. Her passion for the biological sciences and education drives her interest towards sustainable transportation and the cognitive behavioural implications of autonomous vehicles. *(Panel 2)*

Ryan Stein

Director of Policy, Insurance Bureau of Canada

Ryan Stein has over ten years of experience in policy development. He leads a team of analysts that works with Canadian insurance companies to develop solutions to various legislative and regulatory issues affecting their businesses. In particular, for the past two years, Ryan has been leading IBC's research and policy work on automated vehicles, which culminated last year in a framework of proposed insurance law amendments needed for the provincially-prescribed auto insurance policies and tort rules to accommodate automated vehicle use. Ryan and his team are currently discussing the framework provincially and federally. Ryan will speak to the industry's position and to the issues they've been trying to address. A Chartered Insurance Professional (CIP), Ryan holds an undergraduate degree in international business and a master's degree in international affairs from Carleton University. *(Panel 3)*

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Richard Waterhouse

Chief Operating Officer, Centre of Excellence in Next Generation Networks (CENGN)

Richard Waterhouse is the Chief Operating Officer at CENGN – Canada's Centre of Excellence in Next Generation Networks. Richard possesses 20 years of expertise in creating and managing multi-million dollar sales funnels and building longstanding relationships with the C-Suite of industry-leading technology companies. With a robust technical background, expertise in achieving record-setting growth in both product and service sales, as well as diverse business operations, he brings the flexibility necessary to excel in complex markets. Richard holds a BEng. from Loughborough University in England. *(Panel 1)*

Jeff Westeinde

President, Zibi Canada

Jeff Westeinde is an active investor and entrepreneur in both the environmental/cleantech and real estate sectors with active investments in solar energy and technologies that promote the beneficial re-use of waste.

Jeff is a founding partner of the Windmill Development Group, Canada's leading sustainable real estate developer. Mr. Westeinde provides his expertise with the selection, remediation and development of brownfield sites in urban areas, a major part of Windmill's development model. *(Panel 2)*

Dr. Halim Yanikomeroglu

Professor, Systems and Computer Engineering, Carleton University

Halim Yanikomeroglu is a Professor in the Department of Systems and Computer Engineering at Carleton University. His research focuses on 5G/5G+ wireless technologies and networks. He has coauthored 350 peer-reviewed research papers including 110+ in the IEEE journals, and has given a high number of plenary talks, tutorials, and seminars in the leading international conferences. Dr. Yanikomeroglu has extensive collaboration with the Canadian and international wireless industry; his collaborative research has resulted in 21 granted patents (plus more than a dozen applied for). Dr. Yanikomeroglu has served as the General Chair of the IEEE's flagship Vehicular Technology Conference in 2010 (Ottawa) and 2017 (Toronto). Dr. Yanikomeroglu is a Fellow of the IEEE, a Distinguished Lecturer for the IEEE Communications Society and a Distinguished Speaker for the IEEE Vehicular Technology Society. *(Panel 1)*

Cristina Holguin-Pando

PhD (candidate); M.Sc; B.Comm.

Cristina has been immersed in the business of science and technology for over 15 years. Her experience facilitating the transition of Research and Development (R&D) into economic and social impacts and her passion developing and managing R&D business plans, has allowed her to enjoy a career path spanning industry, government and academic institutions in Mexico, where she was born and raised, as well as in Canada, where she lives since 2002. *(Project Pitch Session)*

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