

TAC Council News – Summer 2019

Contents

Chief Engineers’ Council.....	Page 1
Connected and Automated Vehicles Task Force	Page 5
Education and Human Resources Development Council	Page 6
Environment Council.....	Page 7
Urban Transportation Council	Page 9
Contact Us	Page 10

Chief Engineers’ Council

From the Executive

The Chief Engineers’ Council oversees the development of TAC’s flagship technical guidelines, and its standing committees organize many of the sessions at the annual TAC Conference. Geometric design, structures, traffic operations, pavements, soils and materials, asset management, road safety, maintenance and construction... we do it all!

Meetings of the Council are open to all TAC members, and we especially encourage attendance by young professionals. Join us at our next gathering on Sunday, September 22 and Monday, September 23 at TAC’s Fall Technical Meetings in Halifax.

Chair: Angela Gardiner, City of Saskatoon
Vice-Chair: Paul Murchison, Yukon Highways and Public Works

Spring Meeting Highlights

The Chief Engineers’ Council met in Ottawa on Saturday, April 6 and Sunday, April 7. The Council received presentations on the Vision Zero movement in Canada, the City of Toronto’s work to mitigate threats from hostile vehicles, a survey of Council members on alternative procurement practices, and a completed

project on transportation and health by the Urban Transportation Council. It also received final presentations on two Chief Engineers’ Council projects: Best Practices for Pothole Repairs in Canada, and a new Special Roads chapter in the *Geometric Design Guide for Canadian Roads*, both of which will proceed to approval by ballot.

The Council’s regular roundtable discussion focused primarily on climate change, and identified a number of emerging and priority issues including rainfall and drainage impacts on infrastructure and land uses, freeze-thaw impacts on roadways, deteriorating asphalt quality, storm impacts on coastal erosion and infrastructure, municipal resiliency staffing and strategies, and assessing the impacts of projects on greenhouse gas emissions.

The Council also received updates from eight standing committees, summarized below.

The **Traffic Operations and Management Standing Committee** reported that the recent volunteer project on decorative crosswalks will be converted to a pooled-fund study. New volunteer projects will address crossrides at right-turn channels, active mode symbols, and active mode signal timing.

The **Structures Standing Committee** reported on several presentations, and noted emerging issues with steel bridges including globally-sourced material standards and training for bridge fabrication inspectors.

The **Soils and Materials Standing Committee** reported on presentations addressing Portland limestone cement, warm-mix asphalt and hot-mix asphalt, and noted emerging issues include drone use, asphalt binders, climate change, and 3-D printing.

The **Road Safety Standing Committee** reported its adoption of a new three-year strategic plan, and discussions about street lighting, Vision Zero, legislative changes, and roadside barriers. It also highlighted a proposed pooled-fund project to develop a road safety webinar series.

The **Pavements Standing Committee** noted that it received presentations on ground penetrating radar, Iqaluit airport construction, fibre in asphalt mixes, and permeable pavers. It reported a new volunteer project on benchmarking agency pavement performance measures, and progress on a pooled-fund project proposal on consistency and performance measures when systems for pavement condition data collection are upgraded.

The **Maintenance and Construction Standing Committee** reported that it heard a presentation on 2018 flooding in New Brunswick, and that emerging issues include cannabis and fitness for work, and the management of pilots, offers, trials and sales in large agencies. The committee has a number of volunteer and pooled-fund projects underway.

The **Geometric Design Standing Committee** reported volunteer work to update *Geometric Design Guide for Canadian Roads* chapters on interchanges, cross-section elements, and access management. It also noted that a new chapter on special roads is ready for approval by the Chief Engineers' Council.

The **Asset Management Task Force** reported that it heard a presentation on pavement marking reflectivity, and discussed best practices for asset data collection. It noted growing interest in the integration of climate-resilient infrastructure and asset management, particularly for drainage (i.e. culverts and bridges). It also noted approval of a new pooled-fund project on location referencing in asset management.

TAC-ITS Canada 2019 Joint Conference & Exhibition

The Council's standing committees are planning more than 25 technical sessions at [this year's conference](#) in Halifax:

- Integrated Mobility: The MaaS Revolution
- General Issues in Road Safety
- Road Safety Engineering Award Finalists
- Innovative ITS Applications in Road Safety
- Improving Safety for Vulnerable Road Users
- Improving Safety Through Speed Management
- Evolving Challenges and Opportunities in Speed Management
- ITS in Support of Vision Zero
- Innovative Traffic Control
- Traffic Control on a Budget: Success Stories
- Design Considerations for Transforming Existing Infrastructure to Complete Streets
- Designing Interchanges and Major Facilities in Constrained Conditions
- Roundabout Planning, Design and Operations
- ITS in Road Construction: Impacts Today and in the Future
- ITS in Road Maintenance: Impacts Today and in the Future
- Innovations in Asset Management
- Spatial Dimensions of Asset Management
- Asset Management in the Face of Climate Change
- Mitigating Utility Risk on Transportation Projects
- Innovations in Geotechnical and Materials Engineering
- Green Technology in Geotechnical and Materials Engineering
- Innovations in Pavement Management, Engineering and Technologies
- Testing and Modeling of Road and Embankment Materials
- Asphalt Mix Designs - State of the Practice
- Structures
- Service Life and Sustainability of Bridges

TAC Awards

At its April meeting, the Chief Engineers' Council approved the following awards for presentation at the 2019 TAC-ITS Canada Joint Conference in Halifax.

TAC Individual Contribution Award

Ania Anthony (Saskatchewan Ministry of Highways & Infrastructure) has been on the Executive of the Soils and Materials Standing Committee since 2013. She is also a member of the Pavements Standing Committee, where she co-authored a report on the impacts of Wide Base Single Tires on pavements. Ania has chaired the Project Steering Committees for Best Practices for Evaluating Soil and Material Stabilization Products, and the Guide to Load Management for Weak Pavement Structures. She is a trusted voice within TAC, representing the Saskatchewan perspective and investing her time and expertise in national conversations on pavements and road materials.

TAC Road Safety Engineering Award

The **City of Calgary** uses Traffic Calming Curbs (TC Curbs) to traffic calm streets quickly, at a low cost. Pre-cast TC Curbs can physically alter a space in hours without impacting utilities or drainage, at one tenth the cost of conventional traffic calming methods. TC Curbs are modular and easily adjusted, can be pinned to the pavement, are reinforced to be driven over, and use pigmented and sulphate-resistant cement for durability. They are a useful tool to encourage safer road use by changing the road environment.

TAC Committee Excellence Award

The **Road Safety Workforce Subcommittee** played a key role in the development of the Road Safety Professional certification program by the Transportation Professional Certification Board. It has also researched road safety programs at Canadian universities and colleges, compiled educational and training resources, scanned organizational training practices, and developed a detailed pooled-fund project proposal for a webinar series that would provide comprehensive road safety training to practitioners.

Publications Coming Soon

TAC publications are available through our online [Bookstore](#).

Best Practices for Pothole Repairs in Canada

This report identifies current Canadian agency practices for pothole repair, and outlines best practices from

both Canadian and international agencies. It recommends temporary and long-term patching strategies for summer and winter, and for evaluating and selecting appropriate patching products for chip seal and asphalt roadways. It also recommends guidelines for the evaluation of new patching products and their compatibility with native road surfaces. It resulted from a pooled-fund project of the Soils and Materials Standing Committee.

Special Roads – Chapter 11, *Geometric Design Guide for Canadian Roads*

This chapter includes a classification of special roads to meet the special service requirements of road agencies across Canada. It provides guidelines that support safe and effective road function and ensure standardization while being compatible with present economic requirements. It was developed by volunteers of the Geometric Design Standing Committee.

Guide for the Design of Roadway Lighting

This update of TAC's 2006 publication discusses the safety benefits of proper roadway lighting, trends in energy-efficient lighting, and the need to consider alternatives to lighting. Volume 1 addresses fundamental theories and principles, while Volume 2 applies them to a variety of on-road (with warrants) and off-road facilities. It was developed by volunteers of the Traffic Operations and Management Standing Committee.

Projects in Development

More information on TAC projects is available [here](#).

Best Practices and Toolkit for Location Referencing in Transportation Asset Management

This project will identify best practices and recommend tools and techniques for agencies of different sizes, resource constraints and GIS implementation maturity. It will show how GIS can support agencies in moving from individual asset management systems to enterprise asset management solutions, supporting their overall asset management frameworks. It was recently proposed by the Asset Management Task Force, and has an estimated funding requirement of \$133,000. Funding partners are required.

Guide to Bridge Deck HMA Paving in Canada

This project will create a new guide to the use of hot-mix asphalt for paving bridge decks, based on a

literature review and a survey of Canadian agencies. It will develop key performance indicators, selection criteria, a flowchart for individual projects, suggested specifications for various alternatives, and construction QA/QC minimum requirements and test procedures. It has been proposed by the Soils and Materials Standing Committee, and has a funding requirement of \$160,000 which has been 34% met by four committed funding partners. Additional funding partners are required.

Road Safety Webinar Series

This project will create a series of recorded webinars to provide practitioners with essential aspects of road safety training, with modules that explore issues including measurement, human behavior, problem solving, and program implementation. It was recently proposed by the Road Safety Standing Committee, and has an estimated funding requirement of \$145,000. Funding partners are required.

Vehicle Loads Synthesis and Recommendations

This project will compile traffic and vehicle load data from various jurisdictions, and determine the adequacy of traffic load provisions in the Canadian Highway Bridge Design Code as well as standard agency-specific truck factors for pavement design. It will develop a discussion paper with recommendations about vehicle loadings and truck pavement design equivalent single-axle load factors. It was proposed jointly by the Structures Standing Committee and Pavements Standing Committee, and has a funding requirement of \$100,000 which has been fully met by 12 funding partners.

Projects in Progress

More information on TAC projects is available [here](#).

Best Practices for Evaluating Soil and Material Stabilization Products

This project is developing a synthesis of best practices for evaluating soil and material stabilization treatments, and recommend guidelines to help Canadian agencies evaluate and select soil stabilization products to support long-term roadway performance. It was proposed by the Soils and Materials Standing Committee, and will conclude in 2020.

Bicycle Infrastructure in Canada: Safety Performance (Present & Future)

This project will help practitioners evaluate the safety performance of bicycle facilities. The main deliverable will be a supplement to TAC's *Traffic Signal Guidelines for Bicycles* (2014) and *Bikeway Traffic Control Guidelines for Canada* (2012), and will include case studies on the safety performance of different bicycle facility types as well as safety heuristics. It was proposed by the Road Safety Standing Committee, and is expected to conclude in 2019.

Canadian Road Safety Engineering Handbook (CRaSH) Scoping Study

This project will recommend an approach to completing TAC's multi-publication Canadian Road Safety Engineering Handbook, establishing it as the primary reference for road safety engineering in Canada. It will review existing elements of the Handbook and other road safety publications used by Canadian practitioners, and consider emerging technologies as well as other risks and challenges. It was proposed by the Road Safety Standing Committee.

Manual of Uniform Traffic Control Devices for Canada: Sixth Edition

This complex, multi-year project will create a new edition of TAC's *Manual of Uniform Traffic Control Devices for Canada* (MUTCDC) and its accompanying *Sign Pattern Manual*, featuring an overall review and many new or updated sections. Publication of the new MUTCDC is expected in 2021. It was proposed by the Traffic Operations and Management Standing Committee.

Performance-Based Decision Making: Lessons Learned and Practitioner Toolkit

This project will examine performance-based evaluation, optimization and decision-making processes and techniques, and will recommend tools to support goals such as cross-asset optimization. It was proposed jointly by the Asset Management Task Force and the Urban Transportation Council's Transportation Finance Standing Committee. Final deliverables are expected in 2021.

Volunteer Projects

In addition to the above pooled-fund projects, the Council's standing committees are supporting more than 30 ongoing volunteer projects.

Connected and Automated Vehicles Task Force

From the Executive

The Connected and Automated Vehicles (CAV) Task Force was created by the TAC Board of Directors in 2018, and recently held its first meeting (see the highlights, below). We are a forum for dialogue and collaboration among transportation system owner-operators, regulatory bodies, businesses, industry organizations, and academia. Our purpose is to help TAC members respond to and benefit from the development and application of connected vehicle (CV) and automated vehicle (AV) technologies, with an emphasis on optimizing outcomes for public health and safety, mobility, economic prosperity and environmental sustainability in urban and rural communities.

The Task Force has a limited membership, but welcomes any friends who wish to participate. Its meetings are open to all TAC members, and we especially encourage attendance by young professionals. Our next meeting will be on Friday, September 20 in Halifax—join us then!

Chair: Garreth Rempel, MORR Transportation Consulting

Vice-Chair: Kenedee Ludwar, British Columbia Ministry of Transportation & Infrastructure

Spring Meeting Highlights

The CAV Task Force met in Ottawa on Friday, April 5, with 50 members and friends present. Attendees developed ideas for a work plan, heard a presentation on the preliminary outcomes of a discussion paper being developed (see below), and held a fascinating roundtable discussion during which they relayed CV/AV initiatives underway within their agencies, businesses or institutions.

Our featured speaker was Paul Carlson (Chair of both the Infrastructure Task Force of the Society of Automotive Engineers, and the CAV Task Force of the U.S. National Committee on Uniform Traffic Control Devices) who provided a traffic control perspective on the lessons learned from recent CAV preparations in the United States.

TAC-ITS Canada 2019 Joint Conference & Exhibition

[This year's conference](#) in Halifax will feature two concurrent technical streams that will focus exclusively on CAVs, including the following technical sessions:

- Preparing for CAVs, Part 1: Technical Challenges and Developments
- Preparing for CAVs, Part 2: Readiness Planning and Pilot Projects
- Advancing the Development of a Security Credential Management System for Connected Vehicles in Canada—Option Analysis and Stakeholder Consultation
- Federal Initiatives to Support Intelligent Transportation Systems Research, Development and Deployment
- Connected Vehicle: The Future of Mobility
- Results from AV/CV Testing and Trials in Canada

Publication Coming Soon

CAV Discussion Paper

TAC has retained a consultant to develop a discussion paper that will help the Association better understand its role in Canada's CAV ecosystem, and identify specific technical issues that its members and volunteers could address. The discussion paper will be available this summer on TAC's website.

Projects in Progress

CAV Task Force volunteers are supporting the creation of new resources for Canadian practitioners, including:

- TAC webinars on important CAV topics (including Calgary's autonomous shuttle pilot test and Toronto's draft tactical plan for automated vehicles, both available [on demand](#))
- An inventory of CAV initiatives in Canada
- A lexicon of CAV terminology
- A reference list of guidance documents for agencies to test and implement CAVs

Education and Human Resources Development Council

From the Executive

The transportation profession is experiencing major demographic changes, including significant retirement rates at senior levels in the public and private sectors. The Education and Human Resources Development Council provides a forum for the discussion of employee recruitment and retention, succession planning, knowledge management, leadership development and education issues in the transportation sector.

Meetings of the Council are open to all TAC members, and we especially encourage young professionals to get involved. We hope to see you at our next gathering on Saturday, September 21 in Halifax at TAC's Fall Technical Meetings!

Chair: Darlene Cleven, Allan Widger Consulting Corporation

Vice-Chair: Jean-François Gysel, SNC-Lavalin

Spring Meeting Highlights

The Education and Human Resources Development Council met in Ottawa on Saturday, April 6, with 21 attendees. The Council received presentations from the Information and Communication Technology Council (ICTC) on cyber security talent development; from SNC-Lavalin and Applied Research Associates on diversity and inclusion; and from the City of Cambridge on mentoring and professional development. The Council also received a presentation from the 2019 Allan Widger Consulting Corporation Grant for Young Geotechnical Engineers in Transportation recipient on his experience as a young transportation professional in the industry.

During the meeting, the Council discussed key issues including soft skills, road safety staff training, and preparing the workforce for an evolving industry.

TAC-ITS Canada 2019 Joint Conference & Exhibition

The Council's standing committees will host six technical sessions at the [upcoming conference](#) in Halifax:

- 2019 TAC Educational Achievement Award Finalists
- A Global Laboratory to Experiment with Emerging Technologies for Transportation

- Communicating Effectively: A Soft Skills Development Workshop
- Impact of Technology in the Workplace
- Women in Engineering Panel
- Young Professionals Panel

Awards

At its meeting in April, the Education and Human Resources Development Council approved the following awards to be conferred at the 2019 TAC-ITS Canada Joint Conference in Halifax.

TAC Individual Contribution Award

Adam Hayashi (formerly of the Cement Association of Canada) has been a long-term and active member of the Education and Human Resources Development Council. Adam joined the Council in 2012 and has participated in the organization of numerous panels, sessions and workshops at TAC conferences. He most recently led preparations for the post-secondary student event sessions at the TAC conference in 2018. Adam also joined the Integrated Committee on Climate Change in 2016 as a liaison for the Education and Human Resources Development Council, and led the exchange of information between the two bodies.

TAC Educational Achievement Award

Urban Systems Ltd. developed its Bicycle Facilities Design Course to help practitioners understand cyclists' needs and address complex issues around the selection, design and implementation of cycling infrastructure. The course has been delivered to more than 400 professionals across Canada, ensuring that practitioners involved in all aspects of bicycle facility design are equipped with the tools they need to deliver high-quality cycling infrastructure.

Project in Development

More information on TAC projects is available [here](#).

Developing Highly Qualified Personnel for Road Authorities: A Gap and Solutions Analysis in the Era of Connected and Automated Vehicles

The goals of this study are to understand the skills gap faced by road authorities, and to propose measures to address that gap. The study will identify the types of

training and academic programs that are needed, and that could be implemented by Canadian stakeholders over the next few years. The project has an estimated

funding requirement of \$95,000, and funding partners are required.

Environment Council

From the Executive

The work of the Environment Council is founded on the principle of pollution prevention and avoidance of adverse environmental impacts in the planning and delivery of transportation services throughout Canada. Members discuss environmental issues related to transportation, with recent focus on topics such as illumination effects on humans and wildlife, noise effects and attenuation thresholds, erosion and sediment control, invasive species management, environmental regulatory change, and emerging environmental technologies.

Meetings of the Council are open to all TAC members, and we especially encourage young professionals to get involved. We hope to see you at our next gathering on Saturday, September 21 in Halifax at TAC's Fall Technical Meetings!

Chair: Oliver Laser, Wood Environment & Infrastructure Solutions

Vice-Chair: Maya Caron, Ontario Ministry of Transportation

Spring Meeting Highlights

The Environment Council met in Ottawa on Saturday, April 6, with 31 attendees present. The Council received presentations from Northwest Territories on construction of the Inuvik-Tuktoyaktuk Highway, from Quebec on a survey of noise standards, and from Wood Environment & Infrastructure Solutions on the Gender-Based Analysis Plus tool for assessing proposed projects. Representatives of the federal government gave updates on reviews of the *Canadian Navigable Waters Act*, *Impact Assessment Act* and *Fisheries Act*.

During the meeting, the Council discussed key issues including salt management, invasive species, and planning for resiliency to climate change and extreme weather events. Emerging issues discussed during the meeting included access management in greenfield areas, and species at risk.

The Council also heard from its two standing committees. The **Environmental Advisory & Legislation**

Standing Committee discussed proposed federal legislative changes relevant to the transportation sector (Bill C68 and C69) including potential uncertainties and implications for transportation agencies and programs. The **Environmental Issues Management Standing Committee** is conducting volunteer projects on invasive species management and environmental performance benchmarking.

TAC-ITS Canada 2019 Joint Conference & Exhibition

The Council's standing committees will host four technical sessions at the [upcoming conference](#) in Halifax:

- 2019 TAC Environmental Achievement Award Finalists
- Beyond the Storm: Responding to Extreme Weather and Climate Events
- Erosion Prevention and Sediment Control: How to Avoid Deleterious Substance Release Charges under the Fisheries Act
- What's the Buzz: Transportation Noise Policy and Practice in Canada

Awards

At its meeting in April, the Environment Council approved the following awards to be conferred at the 2019 TAC-ITS Canada Joint Conference in Halifax.

TAC Leadership Award

Clark Gunter (WSP Group) has been a valuable contributor to TAC committees, technical projects and conferences for more than 10 years. As a volunteer he has freely shared his technical knowledge, time and effort, and his advice is actively sought by colleagues. Since 2006, Clark has participated on the Environmental Advisory and Legislation Standing Committee, Environment Council, Joint Roundabouts Subcommittee, Climate Change Task Force and Integrated Committee on Climate Change. He has been involved on several committee executives, and has contributed to many TAC Conference sessions, as well

as a seminar and webinar. He remains a key force behind TAC's work to strengthen the consideration of environmental issues in the transportation sector.

TAC Individual Contribution Award

Shauna Lehmann (Saskatchewan Ministry of Highways & Infrastructure) has been active on the Environment Council since 2012. She has been a member of the Climate Change Task Force, the Maintenance and Construction Standing Committee, and the Executive of the Environmental Issues Management Standing Committee. She is a strong champion of TAC's collaborative platforms, having led the development of an online Issues Tracking Database. Shauna also played a key role in raising the profile of invasive species management within TAC through her leadership of a volunteer project and annual conference sessions.

TAC Environmental Achievement Award

York Region widened four kilometres of Bayview Avenue to a four-lane urban arterial road between 2015 and 2018. The project included utility relocations, rail crossing upgrades, trails, and stormwater management. It created more than four hectares of new habitat for large and small mammals, reptiles and birds, including two kilometres of new stream channel. The project improved mobility for all corridor users—pedestrians, cyclists, motorists and fish—through a context-sensitive solution, within a complex environment.

New Publication

TAC publications are available through our online [Bookstore](#).

Beneficial Practices for Compliance with the Migratory Birds Convention Act and Regulations

Migratory birds are frequently encountered along transportation rights-of-way in natural habitats, as well

as on culverts, bridges and other structures, and their presence can cause delays to projects or maintenance operations. A new suite of TAC publications, completed under the Environment Council's direction, offers advice and operational guidance related to federal legislation and migratory birds.

Project in Development

More information on TAC projects is available [here](#).

Synthesis of Practices for Management and Enhancement of Roadway Ecology

This project will develop a compendium of practices to make roads more permeable for fish and wildlife, and reduce conflicts between wildlife and vehicles. The project has an estimated funding requirement of \$135,000, which has been 48% met to date by eight committed funding partners. Additional funding partners are required.

Projects in Progress

More information on TAC projects is available [here](#).

Environmental Performance Benchmarking

This volunteer project will identify a suite of readily quantifiable, comparable and meaningful performance measures relating to transportation and environmental management. It will enable comparison of an organization's performance with others in Canada.

Invasive Species Management

This volunteer project will develop a synthesis of best practices outlining preventative actions to manage the spread of invasive species along transportation corridors.

Urban Transportation Council

From the Executive

The Urban Transportation Council provides a forum for governments and their partners in the private and non-governmental sectors to address a broad range of transportation issues related to urban areas through discussion, technical research, conference sessions, and more. The Council is exploring possibilities presented by new mobility services and vehicle technologies, while they continue to grapple with fiscal constraints and the need to both combat and adapt to climate change.

Meetings of the Council are open to all TAC members, and we especially encourage young professionals to get involved. We hope to see you at our next gathering on Sunday, September 22 in Halifax at TAC's Fall Technical Meetings!

Chair: Sabbir Saiyed, Region of Peel

Vice-Chair: Lisa Salsberg, Access Planning

Spring Meeting Highlights

The Urban Transportation Council met in Ottawa on Sunday, April 7, with 36 attendees present. The Council received a presentation from Transport Canada on congestion measurement initiatives, as well as project presentations from Urban Design 4 Health on integrating health and transportation in Canada, and from WSP Group on understanding goods movement.

During the meeting, the Council discussed key issues including Vision Zero, pedestrian strategies, congestion management, electrification and shared use of vehicles. Emerging issues of the Council continue to include active transportation and health, mobility, goods movement and transportation planning.

The Council also heard from its standing committees. The **Sustainable Transportation Standing Committee** received a presentation on Vision Zero principles from TranSafe Consulting Ltd. and is conducting two volunteer projects, one on public engagement and one on best practices in bicycle facility regulation. The **Transportation Planning & Research Standing Committee** is conducting a volunteer project on estimating latent demand for active transportation. The **Transportation Finance Standing Committee** discussed the emerging need for the Council to put greater focus on activities related to new and shared mobility.

2019 TAC-ITS Canada Joint Conference & Exhibition

The Council's standing committees will host seven technical sessions at the [upcoming conference](#) in Halifax:

- 2019 TAC Sustainable Urban Transportation Award Finalists
- Best Practices in Urban Transportation Planning
- Emerging Issues in Transportation: Examining the Public Interest in New Mobility
- Innovative Solutions to Enhance Goods Movement
- Integrating Health and Transportation
- Transportation Demand Modelling
- Quality Assurance for Traffic Management During Construction Projects

Awards

At its meeting in April, the Urban Transportation Council approved the following awards to be conferred at the 2019 TAC-ITS Canada Joint Conference in Halifax.

TAC Individual Contribution Award

Richard Tebinka (WSP Canada) has volunteered on TAC committees since 1988, most recently on the Sustainable Transportation and Transportation Planning & Research Standing Committees. He has chaired technical sessions on the Sustainable Urban Transportation Award, and on parking at two recent TAC conferences. He has volunteered on technical projects looking at transit planning and public engagement, and has also reviewed scholarship applications for the TAC Foundation.

TAC Sustainable Urban Transportation Award

The **City of Ottawa's** Chapman Mills Drive Transit Priority and Active Transportation Corridor involved the proactive implementation of higher-order transit and cycling facilities in a new, medium-density, mixed-use neighbourhood. It included the planning, design and incremental construction of a two-kilometre dedicated busway in the median of Chapman Mills Drive, as well as the introduction of low-stress cycling facilities including cycle tracks.

Publications Coming Soon

TAC publications are available through our online [Bookstore](#).

Integrating Health and Transportation in Canada

Public health can be improved when transportation systems encourage the safe integration of physical activity into daily life. Furthermore, such an approach can reduce greenhouse gas emissions and congestion, as well as improve productivity and sustainability. Expected this fall, this new TAC publication explores current practices, identifies gaps, and recommends ways to strengthen health considerations in transportation planning, design and decision making.

Understanding Goods Movement: Trends and Best Practices

Despite the significant impact of goods movement on the road system and the economy, there is a need to raise awareness and understanding of how goods are transported in urban areas and how to best plan for goods movement. A synthesis of best practices is anticipated for release this fall, and subsequent learning events will be delivered by TAC.

Projects in Development

More information on TAC projects is available [here](#).

Urban Transportation Indicators, Sixth Edition

This series of TAC projects tracks transportation trends in Canadian urban areas. The sixth iteration will use data on 35 metropolitan areas from the 2016 Canadian Census to build on previous surveys from 1995, 1999, 2003, 2008 and 2013. It will develop an electronic database and a comprehensive report with time-series analyses. The project has an estimated funding requirement of \$225,000, which has been 18% met to date with two committed funding partners.

P3s – Lessons Learned from Major Transit Projects

This project will examine Canadian experiences with public-private partnerships for the construction and

operation of major transit projects. It will identify critical opportunities and challenges for public agencies, and lessons learned from transit P3s with respect to risk management, project delivery, financing and project outcomes. The project has an estimated funding requirement of \$145,000, which has been 50% met to date by six committed funding partners.

Projects in Progress

More information on TAC projects is available [here](#).

Performance-Based Decision Making: Lessons Learned and Practitioner Toolkit

This project is examining performance-based evaluation, optimization and decision-making processes and techniques, and will recommend tools to support goals such as cross-asset optimization. Final deliverables are expected in 2021.

Compendium of Provincial Legal and Regulatory Approaches Supporting Bikeway Geometric Design and Traffic Control Practices

This volunteer project is developing a compendium of ways that Canadian legislation and regulations are enabling the implementation and operation of modern bikeway facilities.

Public and Stakeholder Engagement in Sustainable Transportation

Based on a survey of TAC members, this volunteer project will identify pressing issues, constraints and opportunities related to supporting transit, active transportation and transportation demand management initiatives through better engagement with the public and key stakeholders.

Methods of Estimating Latent Demand for Active Transportation

This volunteer project, initiated at the 2018 TAC Fall Technical Meetings in Saskatoon, will identify different approaches to quantifying the future demand for proposed walking and cycling facilities.

Contact Us

Chief Engineers' Council | Connected and Automated Vehicles Task Force: [Geoff Noxon](#)
Education and Human Resources Development Council: [Luay Mustafa](#)
Environment Council | Urban Transportation Council: [Craig Stackpole](#)