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TAC council and task force meetings are open to all employees of TAC member organizations, including young professionals; students are also welcome. See our website for more information on [TAC councils and committees](#), and on TAC's upcoming [2021 Fall Technical Meetings](#).

TAC member organizations can: appoint one employee as a voting member of the Environment & Climate Change Council, Mobility Council, Technology Council, and Workforce Development Council; appoint any number of auxiliary members to any council or task force; and appoint any number of members to any committee. [Contact us](#) to find out more.

Connected & Automated Vehicles Task Force

Chair: Kenedee Ludwar, British Columbia Ministry of Transportation and Infrastructure

Vice-Chair: Sabbir Saiyed, Region of Peel

This Task Force is a forum for dialogue and collaboration among transportation system owner-operators, regulatory bodies, businesses, industry organizations, and academia. Its 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. [Read more about the Task Force.](#)

Meeting Highlights

2021 Spring Meeting

The CAV Task Force met online on May 3 with 69 attendees who heard about CAV initiatives in the City of Toronto, a new Transport Canada study on CAVs and traffic control devices, and Australia's approach to CAV readiness. Task Force members provided individual updates on activities within their own organizations, and reviewed the Task Force's work plan and technical issues tracking matrix.

2021 Fall Meeting: A Look Ahead

In addition to regular business items and roundtable updates, the upcoming meeting on November 15 will feature presentations on emerging topics including Transport Canada's newly updated guidelines for testing automated driving systems. An [agenda](#) will be available two weeks before the meeting.

Projects, Publications and Resources

Recent Publication

Connected and Automated Vehicles: A Primer for Canadian Municipalities is a new TAC briefing written by Task Force volunteers to give municipal stakeholders a concise, practical perspective on what CAVs mean for them. [Download this free briefing.](#)

Other Resources

TAC's website offers an **inventory of Canadian CAV initiatives**, a **CAV lexicon**, and a list of **useful publications and information hubs**. [Browse these CAV resources.](#)

Environment & Climate Change Council



Chair: Shauna Lehmann, Saskatchewan Ministry of Highways
Vice-Chair: Ethan Askey, City of Calgary

This Council guides TAC in fulfilling its commitment to protection of the environment and climate in the delivery of transportation services, and in the planning, approval, design, construction, operation, maintenance and rehabilitation of transportation infrastructure. More specifically, the Council is a national forum for information exchange and problem solving related to climate change mitigation and adaptation, environmental impact avoidance and mitigation, environmental legislation and regulation, and environmental management systems. [Read more about this Council and its committees.](#)

Meeting Highlights

2021 Spring Meetings

The Council met online on April 23 with 44 attendees. The meeting included focus issue discussions on Indigenous engagement and animal-vehicle collisions, as well as a presentation on British Columbia's Wildlife Program. Members provided individual updates on activities within their own organizations, and continued dialogue on the Council's Strategic Framework. The Council also heard from its three committees.

The **Environmental Issues Committee** and **Environmental Legislation Committee** (43 attendees) held a joint meeting where they heard presentations on updates to the *Canadian Navigable Waters Act*, *Impact Assessment Act* and *Fisheries Act*, and on activities of

Environment and Climate Change Canada. TAC's Structures Committee also provided an update.

The Climate Change Integrated Committee

(34 attendees) heard about Transport Canada's climate change mitigation and adaptation initiatives, and received presentations from Dalhousie University on the evaluation of climate change plans in Canada, and from the Canadian Centre for Climate Services on climate data and applications.

2021 Fall Meetings: A Look Ahead

At its November 19 online meeting the Council will exchange roundtable updates, hear from its three committees, and hold a series of focus issue discussions on priority topics suggested by those committees. An [agenda](#) will be available two weeks before the meeting.

Projects, Publications and Resources

Projects in Development

Best Practices for Assessing and Mitigating Transportation Noise and Vibration. This pooled-fund project would complete a scan of practices; review costing tools, models and decision-making criteria for planning, design and mitigation options; and review current performance criteria, implementation approaches and practices for planning and mitigation.

Projects in Progress

Invasive Species Management. This volunteer project is examining best practices for preventative actions to manage the spread of invasive species along transportation corridors.

Recent Publications

Managing and Enhancing Terrestrial Road Ecology.

This comprehensive new pooled-fund project report addresses the management of wildlife vehicle collisions and vegetation over the course of a road's life cycle, as well as other emerging concerns such as northern road management and restoration of habitat connectivity. [Download this free report](#) and [watch a free recorded webinar](#) on this project.

Understanding Changes to the Fisheries Act, Impact Assessment Act and Canadian Navigable Waters Act.

This new TAC briefing discusses recent changes to federal legislation that affect transportation projects. [Download this free briefing.](#)

New Resource

TAC is providing complimentary, limited-time access to its **Climate Change Risk Assessment Software (C3RAS)**, an online tool arising from a pooled-fund project, to public agency members of the Environment & Climate Change Council. [Contact us for more information.](#)

Awards

2021 Awards

At its Spring 2021 meeting, the Council approved the recipients of two awards.

TAC Environmental Achievement Award

- Stantec Consulting, Stormwater Management Pond Sediment Beneficial Reuse Pilot Project

TAC Individual Contribution Award

- Ethan Askey, City of Calgary

[Read the TAC 2021 Awards booklet.](#)

[Watch a free recorded webinar](#) with presentations by 2021 TAC Environmental Achievement Award finalists.

NEW! TAC Climate Action Achievement Award

The Council has approved a new **TAC Climate Action Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in mitigating emissions from transportation that cause climate change, and/or in improving the resiliency of transportation systems in response to climate change. This new award would be a complement to the existing **TAC Environmental Achievement Award** that recognizes excellence in the protection and enhancement of the natural environment through transportation projects.

Infrastructure & Asset Management Council



Chair: Ashley Curtis, City of Toronto
Vice-Chair: Jennifer Graham Harkness, Ontario Ministry of Transportation

This Council guides TAC in fulfilling its commitment to safe, efficient and sustainable transportation infrastructure. More specifically, the Council is a national forum for information exchange and problem solving related to soils and materials, pavements, structures, asset management, and construction and maintenance practices. [Read more about this Council and its committees.](#)

Meeting Highlights

2021 Spring Meetings

The Council met online on May 7 with 38 attendees. It held focus issue discussions on: asset management and maintenance standards for active transportation; risk-based inspection; standardized distress measurement and reporting for pavement asset management; the use of reclaimed asphalt pavement in road construction;

and steel bridge construction inspection certification. It also heard from its six committees, and continued to refine the Strategic Framework that guides the Council's work.

The **Asset Management Committee** (42 attendees) heard updates from TAC's GIS-T Subcommittee, and discussed geotechnical assets and climate change vulnerability and resilience planning.

The **Construction Committee** (41 attendees) discussed public-private partnerships and alternative project delivery, road cuts and coring, and issues concerning First Nations. It also received a presentation on the impacts of COVID-19 on construction.

The **Maintenance & Operations Committee** (42 attendees) heard presentations on health and safety, downed highway signs in Saskatchewan, and salt reporting.

The **Pavements Committee** (89 attendees) heard presentations on truck platooning deployment, impacts on bridges and human factor considerations, and a presentation on California Pavement ME Design.

The **Soils & Materials Committee** (73 attendees) heard presentations on the Swedish Abrasion Model from the Swedish Road and Transport Research Institute and experiences with studded tire wear in Alaska. A roundtable was held on reclaimed asphalt pavement with speakers from Alberta, New Brunswick and New Jersey.

The **Structures Committee** (57 attendees) received updates from other TAC committees, and heard updates on the CISC Bridge Fabrication Inspector Certification initiative and on regulatory changes from Fisheries and Oceans Canada.

2021 Fall Meetings: A Look Ahead

On November 5 the Council will meet to hear from its six committees and hold a series of focus issue discussions on priority topics suggested by those committees. An [*agenda*](#) will be available two weeks before the meeting.

Projects, Publications and Resources

Projects in Development

Guide to Bridge Hydraulics, Third Edition. This pooled-fund project would update and expand provisions in the guide related to climate change, and make it a more practical tool for bridge and hydrotechnical engineers.

Guide to Maintaining and Repairing Small Culverts.

This pooled-fund project would explain maintenance and repair interventions for culverts up to 3 metres in diameter. The guide will address all culvert materials but will focus on steel, concrete and HDPE as they are most common.

Projects in Progress

Guide to Bridge Deck HMA Paving in Canada. This pooled-fund project will guide the use of hot-mix asphalt for paving bridge decks. It will develop key performance indicators, selection criteria, a flowchart for projects, suggested specifications for various alternatives, and construction QA/QC minimum requirements and test procedures.

Vehicle Load Practices and Recommendations. This pooled-fund project is studying the adequacy of traffic load provisions in the *Canadian Highway Bridge Design Code* as well as standard agency-specific truck factors for pavement design, and developing recommendations for vehicle loadings and truck pavement design equivalent single-axle load factors.

The Council's committees also have **five volunteer projects** in progress.

Publications Coming Soon

Guide to Evaluating Soil and Material Stabilization Products. This pooled-fund project deliverable summarizes best practices for evaluating soil and material stabilization treatments, and recommends guidelines to help Canadian agencies evaluate and select soil stabilization products.

Performance-Based Decision Making: Lessons Learned and Practitioner Toolkit. This pooled-fund project report examines performance-based evaluation, optimization and decision-making processes and techniques, and recommends tools to support goals such as cross-asset optimization.

Guide to Utility Coordination on Public-Private Partnership (P3) Projects. This volunteer project report is a template for public- and private-sector partners to develop a utility coordination process for the major phases of P3 planning, request for proposal preparation, in-market design, project implementation, and post-construction.

Awards

2021 Awards

At its Spring 2021 meeting, the Council approved the recipient of one award.

TAC Leadership Award

- Mark Popik, Thurber Engineering

[Read the TAC 2021 Awards booklet.](#)

NEW! TAC Infrastructure Achievement Award

The Council has approved a new **TAC Infrastructure Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the use of best practices to deliver safe, durable and efficient transportation infrastructure, with a focus on major road, highway and urban transportation infrastructure.

Mobility Council



Chair: Lisa Salsberg, Access Planning
Vice-Chair: Brian Hollingworth, City of Hamilton

This Council guides TAC in fulfilling its commitment to integrated, multimodal mobility for people and goods. It is a national forum for information exchange and problem solving related to: planning, monitoring, governing and funding transportation systems, particularly in urban areas; understanding and managing transportation demand; and delivering mobility services related to active transportation, public transit and other modes in communities of all sizes. [Read more about this Council and its committees.](#)

Meeting Highlights

2021 Spring Meetings

The Council met online on April 29 with 33 participants. It received committee reports and organizational updates, approved one volunteer project deliverable and a new volunteer project proposal, and heard a presentation on the Mobility Data Specification by the U.S.-based Open Mobility Foundation. Attendees also held focus issue discussions on: multimodal conflicts involving vulnerable road users; last-mile goods delivery; mobility data collection; and priority topics for volunteer work on transportation finance.

The **Active Transportation Integrated Committee** (57 attendees) discussed a volunteer project developing a national active transportation “snapshot,” reviewed several proposals to update TAC design guidance, considered progress on upcoming TAC Conference sessions, and exchanged information on relevant activities in nine other committees.

The **Mobility Management Committee** (24 attendees) received a Pembina Institute presentation on innovations in last-mile goods movement, approved a volunteer project deliverable, planned upcoming TAC Conference sessions, and refined its work plan on several key topics including curbside management and mobility data.

The **Transportation Finance Committee** (15 attendees) reported on membership growth, heard a presentation from Metrolinx on its approach to business case development, refined its work plan on key topics, and discussed upcoming TAC Conference sessions.

The **Transportation Planning Committee** (21 attendees) discussed work toward an update of a previous project on data collection, considered the need for a forum to support the modelling community, identified possible activities related to goods movement, and reviewed plans for this fall’s TAC Conference sessions.

2021 Fall Meetings: A Look Ahead

On November 4, the Council will exchange roundtable updates, hear from its four committees, and discuss several emerging topics suggested by those committees. *An [agenda](#) will be available two weeks before the meeting.*

Projects, Publications and Resources

Projects in Progress

Mobility Pricing Opportunities and Challenges. This pooled-fund project will identify and explain the major opportunities and challenges posed by road user charges as a mobility pricing tool in the Canadian context. It will address policy priorities, emerging technologies and business models, and trends in travel behaviour and consumer preferences.

Canadian Active Transportation Snapshot. This volunteer project is developing a portrait of active transportation in communities of all sizes. It will identify emerging challenges and opportunities, and summarize key practices and trends in planning, policy, design, implementation, data collection and monitoring.

Recent Publications

Understanding Goods Movement in Canada: Trends and Best Practices. This pooled-fund project report offers a comprehensive introduction to the subject for transportation practitioners and individuals working in other sectors. [Download this free report.](#)

“Regulatory Approaches to Enabling Implementation Bicycle Treatments: Survey of Canadian Jurisdictions” is a volunteer project report on ways that Canadian legislation and regulations enable the implementation and operation of modern cycling facilities. [Download this free report.](#)

“Methods for Predicting Cycling Demand” is a volunteer project report that summarizes approaches to estimating future cycling activity. [Download this free report.](#)

“Public Engagement in Sustainable Mobility Projects”

is a volunteer project report that summarizes a survey of public engagement policies and practices for sustainable mobility projects in Canada. [Download this free report.](#)

Awards**2021 Awards**

At its Spring 2021 meeting, the Council approved the recipients of two awards.

TAC Sustainable Mobility Award (co-winners)

- City of Hamilton, Keddy Access Trail
- Urban Systems, COVID-19 Street Rebalancing Guide

TAC Individual Contribution Award

- Lisa Salsberg, Access Planning

[Read the TAC 2021 Awards booklet.](#)

[Watch two free recorded webinars with presentations by 2021 TAC Sustainable Mobility Award finalists.](#)

NEW! TAC Mobility Achievement Award

The Council has approved a new **TAC Mobility Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the delivery of integrated or multimodal mobility for people and goods, while reinforcing the social, economic and environmental pillars of sustainability. This award replaces the TAC Sustainable Mobility Award.

NEW! TAC Active Transportation Achievement Award

The Council also approved a new **TAC Active Transportation Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the improvement of facilities or services to encourage and benefit people who walk, bike or use other forms of active transportation.

Safety, Design & Operations Council



Chair: Chris Brinkmann, City of Ottawa
Vice-Chair: Peter Hackett, Nova Scotia
Transportation and Active Transit

This Council guides TAC in fulfilling its commitment to a safe and efficient transportation system with enhanced mobility and a reduced rate of death and injury among all road users. More specifically, the Council is a national forum for information exchange and problem solving related to road safety programs, geometric design and traffic operations as key elements of a safe systems approach; it also offers a lens on priority issues for small municipalities. [Read more about this Council and its committees.](#)

Meeting Highlights**2021 Spring Meetings**

The Council met online on May 14 with 29 participants. It held focus issue discussions on interchanges, Vision Zero, engaging small municipalities, and hybrid workplaces. It also heard updates from its four committees and reviewed its Strategic Framework.

The **Geometric Design Committee** (64 attendees) received presentations on a high tension cable barrier median on Highway 50 in Québec, grade-separated rail in Edmonton, accessibility measures at protected

intersections and raised cycle facilities in Ottawa, and on British Columbia’s Highway 91/17 design-build project.

The **Road Safety Committee** (80 attendees) heard presentations on TAC’s upcoming online road safety training, Vision Zero and Safe System definitions and principles, surface transportation safety in the City of Oakland, California, and updates to the Road Safety Professional Certification.

The **Small Municipalities Integrated Committee** (27 attendees) discussed ways to engage small municipalities, and received a presentation on challenges of transportation master plans in smaller municipalities.

The **Traffic Operations & Management Committee** (54 attendees) received updates from its subcommittees, from the Vision Zero & Safe Systems Subcommittee and from the FHWA and NCUTCD in the United States. It also heard updates on volunteer projects and on the project to develop the *Manual of Uniform Traffic Control Devices for Canada, Sixth Edition*.

2021 Fall Meetings: A Look Ahead

On November 12 the Council will meet to hear from its four committees and hold a series of focus issue discussions on priority topics suggested by those committees. An [agenda](#) will be available two weeks before the meeting.

Projects, Publications and Resources

Projects in Development

Access Management: Synthesis of Practice. This pooled-fund project would synthesize current access management practices for all roadway classifications across Canada, and will provide the basis for a project to create a new Chapter 8 in the *Geometric Design Guide for Canadian Roads*.

Turn Signals for Vehicles in the Presence of Bicycles.

This pooled-fund project would investigate permissive turn signal applications to support safety and other goals. It would define specific Canadian applications and identify accompanying needs such as new traffic controller firmware.

Road Safety Guide for Canada. This pooled-fund project would develop a comprehensive national road safety guide that addresses gaps in TAC's current publications and references other road safety guides and practices. It would focus on engineering in rural and urban conditions, and provide connections to strategic and policy issues.

Projects in Progress

Non-Standard Pavement Markings for Crosswalks. This pooled-fund project is researching non-standard pavement markings for crosswalks to understand their impact on: driver perception and recognition of crosswalks; driver and pedestrian distraction; slip and skid resistance; and recognition by automated driving systems.

Online Road Safety Training. This pooled-fund project is creating a series of online teaching modules to educate practitioners about essential aspects of road safety, exploring issues including measurement, human behavior, problem solving and program implementation.

The Council's committees also have **more than 20 volunteer projects** in progress.

Recent Publications

Manual of Uniform Traffic Control Devices for Canada, Sixth Edition. This product of a major pooled-fund project is a comprehensive update that guides the use

of road signs, traffic signals, pavement markings and other devices to inform travellers about road regulations, hazards and temporary conditions. An update to the accompanying *Sign Pattern Manual* will also be available in the near future. [Get information about purchasing this manual and watch a free recorded webinar on this project.](#)

Safety Performance of Bicycle Infrastructure in Canada.

This pooled-fund project report is a resource document to help Canadian practitioners evaluate the potential safety performance of new bicycle infrastructure. [Download this free report and watch a free recorded webinar on this project.](#)

Awards

2021 Awards

At its Spring 2021 meeting, the Council approved the recipients of four awards.

TAC Road Safety Engineering Award

- City of Hamilton, Vision Zero Action Plan

TAC Leadership Award

- Taso Koutroulakis, Halifax Regional Municipality
- Tim Murphy, Parsons

TAC Individual Contribution Award

- Lucas Knowles, Yukon Highways and Public Works

TAC Committee Excellence Award

- Project Steering Committee for *Manual of Uniform Traffic Control Devices, Sixth Edition*
- Road Safety Committee

[Read the TAC 2021 Awards booklet.](#)

[Watch a free recorded webinar with presentations by 2021 TAC Road Safety Engineering Award finalists.](#)

NEW! TAC Road Safety Achievement Award

The Council has approved a new **TAC Road Safety Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the application and enhancement of road safety engineering practices. This award replaces the TAC Road Safety Engineering Award.

NEW! TAC Small Municipalities Achievement Award

The Council has also approved a new **TAC Small Municipalities Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the use of best practices to improve transportation system performance in rural or small urban communities, with a principal focus on road safety and traffic operations.

Technology Council



Chair: Scott Stewart, IBI Group
Vice-Chair: Jeannette Montufar, MORR Transportation Consulting

This Council guides TAC in fulfilling its commitment to the innovative, efficient and effective integration of technology across the transportation sector. More specifically, the Council is a national forum for information exchange and problem solving related to intelligent transportation systems, connected and automated vehicles, vehicle electrification, data management, cyber security and smart cities. [Read more about this Council and its committees.](#)

Meeting Highlights

2021 Spring Meeting

The Council met online on May 6 with 38 participants. Participants heard presentations on the City of Toronto's data and analytics program, the Council of Canadian Academies report *Choosing Canada's Automotive Future*, British Columbia's ITS program, and technologies for digital twins and planless projects. They also discussed emerging technology issues and the Council's Strategic Framework, exchanged organizational updates, and continued 2021 TAC Conference session planning.

NEW! Two Committees Created

At its recent meeting, the Council approved terms of reference for a new **Digital Applications Committee** and a new **Intelligent Transportation Systems (ITS) Committee**. Executive members for these committees have been appointed, volunteer members have been recruited, and each committee will hold an inaugural meeting this summer.

2021 Fall Meeting: A Look Ahead

At its upcoming meeting on November 16, the Council will hear updates from its two committees and the CAV Task Force, and receive presentations on emerging technology issues. Attendees will also exchange organizational updates and refine the Council's Strategic Framework. An [agenda](#) will be available two weeks before the meeting.

Awards

NEW! TAC Technology Achievement Award

The Council has approved a new **TAC Technology Achievement Award** for 2022 to recognize initiatives that demonstrate excellence in the use of advanced technologies to address road, highway or urban transportation challenges.

Workforce Development Council



Chair: Jean-François Gysel
Vice-Chair: Sean Nix, Mohawk College

This Council guides TAC in fulfilling its commitment to supporting the development of a skilled, interdisciplinary workforce for Canada's transportation sector. More specifically, the Council is a national forum for information exchange and problem solving related to: recruiting and retaining professional and technical staff; building leadership and managing knowledge within TAC member organizations; encouraging post-secondary institutions to develop and enhance transportation-related programs; and encouraging students to learn about and find employment in the transportation sector. [Read more about this Council and its committees.](#)

Meeting Highlights

2021 Spring Meeting

The Council met online on April 28 with 19 attendees, and heard several presentations on diversity and inclusiveness in public, private and academic organizations. Attendees also discussed emerging workforce development issues, exchanged organizational updates, and refined the Council's Strategic Framework.

NEW! Three Committees Created

At its recent meeting, the Council approved terms of reference for a new **Education Committee**, a new **Human Resources Committee**, and a new **Professional Development Committee**. Executive members of these committees have been appointed, volunteer members

have been recruited, and each committee will hold an inaugural meeting this summer.

2021 Fall Meeting: A Look Ahead

On November 10, the Council will hear a presentation on knowledge transfer and development tools in the British Columbia Ministry of Transportation and Infrastructure, hear reports from the Council's three new committees, and discuss emerging issues. *An agenda will be available two weeks before the meeting.*

Projects, Publications and Resources

Projects in Progress

Developing Highly Qualified Personnel for Road Authorities: A Gap and Solutions Analysis in the Era of Connected and Automated Vehicles. This pooled-fund project is assessing the skills gap faced by road authorities, and proposing measures such as training and academic programs to address it.

Awards

2021 Awards

At its Spring 2021 meeting, the Council approved the recipients of two awards.

TAC Educational Achievement Award

- Insurance Corporation of British Columbia, Roundabout Workshop

TAC Individual Contribution Award

- Derek Drummond, Stantec Consulting (now with Dawson Road Maintenance)

At its Spring 2021 meeting, the Council approved minor changes to the current **TAC Educational Achievement Award** for 2022 that recognizes initiatives that demonstrate excellence in the use of education or training to improve individual skillsets and/or organizational practices.

[Read the TAC 2021 Awards booklet.](#)

[Watch a free recorded webinar with presentations by 2021 TAC Educational Achievement Award finalists.](#)

Contact Us

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Connected & Automated Vehicles Task Force

Technology Council

Workforce Development Council

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Environment & Climate Change Council

Infrastructure & Asset Management Council

Safety, Design & Operations Council

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