Who We Are

The Transportation Association of Canada (TAC) is a not-for-profit, national technical association that focuses on road and highway infrastructure and urban transportation.

Our 500 corporate members include all levels of governments, private companies, academic institutions, and other associations. TAC provides a neutral, non-partisan forum for those organizations, and their thousands of staff, to come together to share ideas and information, build knowledge, and pool resources in addressing transportation issues and challenges.

TAC develops publications identifying best practices and encouraging harmonization of those practices across jurisdictions. While TAC does not set standards, it is a principle source of guidelines for planning, design, construction, management, operation, and maintenance of road, highway, and urban transportation infrastructure systems and services.
In January this year, I was proud to step into the position of TAC President. It’s been an honour to work with the Board of Directors, members and staff as we grow the Association for the betterment of the transportation sector in Canada.

The last year, and indeed the last two years, have been challenging given the pandemic and economic conditions we’ve all faced. However, these extraordinary circumstances have also presented opportunities to try different approaches to our work. That’s been the case within member organizations and has been true at TAC as well. You may have noticed the variety of new meeting formats being offered, refreshed responsiveness in how TAC addresses emerging and critical issues, and the updated look and feel of some of TAC’s technical publications and general communications. These are just a few examples of the way TAC continues to evolve how it serves and supports members.

As the Association changes with the times, the Board continues to monitor performance to ensure TAC provides value for members. We’re encouraged to see our volunteer community growing with new participants as well as newly-formed committees focusing on important topics relating to technology and workforce development. We’re also gratified by the excellent member retention rate, which reflects the commitment of our members to collaborating through TAC. And TAC’s financial situation remains healthy – revenues are sufficient to cover operating expenses, with reserves set aside for special projects and to protect the Association in case of crisis.

Those indicators give us confidence that TAC remains a valuable resource for members and stakeholders. The Board will continue its work to understand members’ needs and to support the growth and development of the Association so that its vital role as a forum for transportation professionals is sustained for the future.

Looking ahead to this fall, we’re planning to return to an in-person conference and exhibition in Edmonton, Alberta. This will be a much-anticipated reunion of the TAC community and a chance to reconnect and renew our network. I hope many of you will participate as we gather again to share, learn and advance our vision of transportation that makes Canada safe, healthy and prosperous.

Paul McConnell
President
Executive Director’s Report

As 2021/22 continued to bring change and uncertainty across Canada and around the world, there was also the beginning of building towards a “new normal”. At TAC, this included taking some important steps in the evolution of our products and services, and how we engage with members. It’s my pleasure to highlight some of these developments.

Delivering meetings and events online was the norm in the last year. The annual Conference and Exhibition was held over two weeks and, for about a month in the spring and again in the fall, TAC members participated in dozens of online technical meetings. To supplement those familiar TAC events, several new forums were offered; committee and council members were able to take advantage of a variety of roundtable meetings, lunch and learn sessions, and more ways to share information. More webinars were offered – both live and recorded – and are now all free to anyone interested in finding out about transportation topics and projects. As enthusiastic as we are about regaining the opportunity to meet in person, we’ve found tremendous value in regularly connecting in our virtual world. We’ll continue to include online meetings and events in the TAC calendar from now on.

Significant progress was made in the last year on some flagship projects. The Sixth Edition of the Manual of Uniform Traffic Control Devices for Canada was released, the project to develop a road safety guide for Canada advanced, and we put the final pieces in place to launch TAC’s new learning management system and online road safety training very soon. Undertaking those kinds of projects would not be possible without the support of TAC members. In the last year, an impressive 46 different organizations were part of TAC’s pooled fund program, developing new resources for the transportation sector and building value for members and stakeholders.

Addressing emerging and critical issues is central to TAC’s work. Presentations and discussions at meetings, webinars, conference sessions and projects are established means to do so. To those, we’ve added some new approaches. Strategic frameworks are maintained for each TAC council, volunteer project reports are made available in a consistent format, and corporate demos provide opportunities to learn about innovative products and services emerging in the private sector. These mechanisms mean TAC is more nimble in monitoring issues and documenting progress. Add to that our more polished communication vehicles, and the result is better dissemination of the important work done through the TAC network.

Building on TAC’s long history and evolving our products and services for members’ benefit has been, and will remain, a priority to ensure TAC’s future. Members’ engagement, direction from the Board, and the support of staff are critical to progressing on our shared mission. In these changing times, I hope you’ll feel proud as you read this report about all that’s been accomplished in the past year, the growth that we’ve achieved, and the knowledge that we are working together to ensure the Association remains a resilient and resourceful network for transportation professionals.

Dr. Sarah Wells
Executive Director
2021/22 Performance

**SIZE OF RESERVES**

$3,117,366

**DIVERSIFICATION OF REVENUE**

- 28.7% Membership fees
- 25.0% Client services
- 21.1% Other
- 9.8% Conference
- 8.1% Publications
- 6.5% Pooled fund projects
- 0.6% Learning program

**FINANCIAL SUMMARY**

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*As per audited financial statements. Includes revenue for reserves and intergovernmental programs.

**PROJECT ACTIVITY**

- 4 in progress
- 6 in development
- 31 volunteer funded & volunteer projects

**MEMBERSHIP DISTRIBUTION**

- Municipalities: 222
- Private sector organizations: 198
- Associations: 25
- Educational institutions: 21
- F/P/T govt depts of transport: 14
- Govt non-transport dept or transportation agency: 11

**CONFERENCE ACTIVITY**

- 82 sessions delivered

**SIZE OF VOLUNTEER BASE**

796 unique individuals on active councils, committees & PSCs

**MEMBER RETENTION RATE**

92.1%
Board of Directors

TAC is governed by a Board of Directors elected from all levels of government, the private sector, and other organizations. The Board sets the strategic direction for our Association and oversees TAC’s volunteer structure.

Executive

PRESIDENT & CHAIR
PAUL MCCONNELL
Deputy Minister, Yukon Highways and Public Works

PAST PRESIDENT
ANNE-MARIE LECLERC
Assistant Deputy Minister, Ministère des Transports du Québec

VICE PRESIDENT, F/P/T
SARAH THIELE
Deputy Minister, Manitoba Transportation and Infrastructure

VICE PRESIDENT, MUNICIPAL
TIM SAVOIE
City Manager, City of Port Moody

VICE PRESIDENT, MEMBERS-AT-LARGE
SCOTT STEWART
Chief Executive Officer, IBI Group

TREASURER
MICHAEL THOMPSON
General Manager Transportation, City of Calgary

SECRETARY
SARAH WELLS
Executive Director, Transportation Association of Canada

Other Directors

Brad Anguish
Executive Director
Public Works
Halifax Regional Municipality

Jim Berezowsky
Director of Public Works
City of Winnipeg

Gerry Chaput
Director, Partnerships
IBI Group

Bob Creed
Deputy Minister
PEI Transportation and Infrastructure

Valérie Gagnon
Director, Mobility
City of Montreal

Cory Grandy
Deputy Minister
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Peter Hackett
Deputy Minister
Nova Scotia Public Works

John Hawkins
Assistant Deputy Minister
Nunavut Economic Development and Transportation

Stephanie Hébert
Assistant Deputy Minister, Programs
Transport Canada

Doug Jones
Deputy Minister
Ministry of Transportation of Ontario

Kaye Krishna
Deputy Minister
BC Ministry of Transportation and Infrastructure

Lon LaClaire
General Manager, Engineering Services
City of Vancouver

Rae-Ann Lajeunesse
Deputy Minister
Alberta Transportation

Steve Loutitt
Deputy Minister
Northwest Territories Department of Infrastructure

Jeanette Montufar
Founding Partner and CEO
MORR Transportation Consulting

Suzanne Proulx
Executive Director
AQT

Patrick Puccini
Vice-President
AECOM Canada Limited

Rob Taylor
Deputy Minister
New Brunswick Transportation and Infrastructure

Blair Wagar
Deputy Minister
Saskatchewan Ministry of Highways

As of April 27, 2022
Advancing TAC’s Work

OUR VISION
Transportation that makes Canada safe, healthy and prosperous

Focus Areas

ENVIRONMENT & CLIMATE CHANGE

SAFETY, DESIGN & OPERATIONS

INFRASTRUCTURE & ASSET MANAGEMENT

TECHNOLOGY

MOBILITY

WORKFORCE DEVELOPMENT

OUR MISSION
Working together to share ideas, build knowledge, promote best practices, foster leadership, and encourage bold transportation solutions
Environment & Climate Change

Exploring Diverse Environmental and Climate Issues
The interests of the Environment & Climate Change Council and its committees are wide-ranging. Recent discussion topics have included the concerning volume of animal-vehicle collisions across Canada that harm both humans and wildlife. Council members recently heard that 600 deer are among the 2,500 animals killed by vehicles each year in Calgary alone, and that Alberta Transportation has responded by creating an online app for reporting and tracking.

The Council’s Climate Change Integrated Committee routinely addresses the subject of electric vehicles, with jurisdictional updates from member agencies. And the Council maintains a high-level focus on sustainability, exploring the potential of innovative tools and technologies, such as the Envision framework, to improve decision making throughout the life cycle of transportation infrastructure.

Managing Invasive Species
A volunteer working group of the Environmental Issues Committee is developing a practical resource to help organizations combat invasive species – non-native organisms that could harm an ecosystem or the activities that depend on it.

Invasive species are regulated under both federal and provincial legislation. A briefing on the topic is expected to be published in 2023.
Environment & Climate Change

Building Understanding of Federal Legislation
Because federal environmental regulatory processes often impact transportation projects, a key goal of TAC’s Environment & Climate Change Council and its Environmental Legislation Committee is to keep members up to date on the state of regulation, and to facilitate their sharing of information on related challenges. Attendees at both TAC’s spring and fall technical meetings routinely discuss the Fisheries Act, Impact Assessment Act, and Canadian Navigable Waters Act.

New Climate Action Achievement Award Announced
In the fall of 2021, TAC expanded its slate of awards recognizing technical achievement. The Climate Action Achievement Award will be awarded for the first time in 2022 to a TAC member organization that has demonstrated excellence in mitigating emissions from transportation that cause climate change, and/or in improving the resiliency of transportation systems in response to climate change.

Report Elevates Ecological Principles in Road Design and Operations
A new synthesis of practice, Managing and Enhancing Terrestrial Road Ecology, identifies state-of-the-art planning, design and operational measures that road authorities can use to minimize impacts on animals and their habitats, help conserve biological diversity, and manage safety and cost considerations. It presents practitioners with detailed information on the emerging field of study and practice in “road ecology”, including case studies of new builds, retrofits and changes in operational practices designed to be more responsive to ecological systems and their associated plants, animals and habitats.

A webinar was delivered by the report’s authors. Both the publication and a recording of the webinar are available free on TAC’s website, thanks to support from the project’s funding partners.

“This project generated many insights into the art and science of the possible, and the practical, in Canada. The resulting synthesis of practice offers detailed information on things like wildlife protection, different approaches to roadside landscaping, creating pollinator habitat—important subjects that other guides only address at a high level.”

Ethan Askey, Manager of Sustainability Strategy (Transportation), City of Calgary and Chair of the Project Steering Committee
Improving Utility Coordination on P3 Projects in Canada

In 2021, TAC released Guide to Utility Coordination on Public-Private Partnership (P3) Projects to help Canadian road authorities manage the placement of utility infrastructure in their road rights-of-way, which are becoming more crowded and complex. The guide is a template that can be referred to by public and private agencies as they develop utility coordination processes for their own P3 projects. For agencies with an existing process, it can help ensure they cover key aspects and follow consistent practices. For agencies without an existing process, it offers a seed document that they can customize. A webinar on the guide was delivered by the report’s authors. Both the publication and a recording of the webinar are available free on TAC’s website.

Better Bridges for a Changing Climate

Floods and erosion can damage structures or even cause them to fail, as evidenced by British Columbia’s unprecedented flooding in 2021. A new pooled-fund project was launched in early 2022 to update TAC’s Guide to Bridge Hydraulics, a tool that helps bridge professionals integrate hydraulic and hydrologic considerations in their work. The current version of the Guide was published in 2001 and does not address the very real risks associated with our rapidly changing climate. The updated Guide will correct that, and will also incorporate research, best practices and regulatory requirements that have emerged in the last two decades.

The Project Steering Committee includes representatives of ten TAC member organizations that have committed funding to undertake the work. Proposals will be solicited in 2022/23, and publication of TAC’s Guide to Bridge Hydraulics, Third Edition is expected in 2025.
Infrastructure & Asset Management

Value of Performance-Based Decision Making

In 2021, TAC released *Performance-Based Decision Making for Asset Management: Lessons Learned and Practitioner Toolkit*, a report to help government agencies make complex spending choices that involve diverse transportation infrastructure such as roads, bridges, rail lines and garages. The report summarizes current practices, describes lessons learned by pioneering Canadian agencies, and presents a toolkit of ways for practitioners to make better asset management decisions.

“This project highlighted how transportation agencies can adopt performance-based methods to improve asset management and fiscal responsibility. The processes, techniques and recommendations conveyed in the report will support agencies’ strategic goals, and the toolkit will help them put applications from the report into practice,” said Dr. James Smith of Good Roads, who co-chaired the project steering committee with Michael Bateman of the British Columbia Ministry of Transportation and Infrastructure.

The report was authored by MORR Transportation Consulting and can be downloaded from TAC’s website as a free PDF. A webinar on the report was also delivered, and its recording is available free.

Eyes in the Sky: Using Drones for Structural Inspections

Earlier this year, TAC hosted a free webinar, *Eyes in the Sky: Using Drones for Structural Inspections*. The webinar examined activities and opportunities around the use of remotely piloted aircraft systems (RPAS, or drones) in the inspection of bridges and other structures. It covered issues from licensing to possible applications, benefits and limitations, lessons learned, and looked at several case studies from Western Canada. A recording of the webinar is available free on TAC’s website.

Evaluating Soil and Material Stabilization Products

In 2022, TAC released the *Guide to Evaluating Soil and Material Stabilization Products*, a publication to help road owners understand and evaluate proposed soil and material stabilization products and processes. New products appear regularly, but road owners must evaluate their suitability before approving them for local use. The guide recommends a common evaluation framework for assessing the engineering and environmental suitability of soil and material stabilization products for road construction and includes a product application form to be completed by suppliers or contractors.

Transportation agencies are interested in innovative ways to stabilize soils for road construction. This TAC guide summarizes current stabilization products and processes and contains practical tools for agencies to evaluate new technologies in a technically sound and efficient manner. It’s an example of the great things that agencies and industry can accomplish through collaboration.

Ania Anthony, Director, Materials and Surfacing, Saskatchewan Ministry of Highways and Chair of the Project Steering Committee

New Infrastructure Achievement Award Announced

In the fall of 2021, TAC expanded its slate of awards recognizing technical achievement. The Infrastructure Achievement Award will be awarded for the first time in 2022 to a TAC member organization that has demonstrated 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 assets.
Study on Mobility Pricing Makes Headway

An ongoing pooled-fund project is studying the Canadian opportunities and challenges for road user charges such as tolls, cordon charges, area charges or distance-based fees. Seven TAC member organizations have funded this work, which is examining how road user charges could be applied and what impacts they could have on transportation system performance, climate change, public health, social equity, economic productivity, and government revenues. The final project report is expected in 2022/23.

Active Transportation Integrated Committee Steps into the Spotlight

In 2021/22, the Active Transportation Integrated Committee (ATIC) emerged as a real model for TAC’s other integrated committees. One of ATIC’s key roles is to collaborate effectively with other groups, and about ten volunteers act as information-sharing liaisons with other committees that have an interest in active transportation. ATIC has also developed several “design guidance update requests” in areas where it feels that TAC publications could better reflect best practices and has submitted these requests to the Geometric Design Committee and/or the Traffic Operations & Management Committee. ATIC also offers a concentration of expertise that other committees draw on when undertaking technical work that could impact active transportation users.

New Active Transportation Achievement Award Announced

In the fall of 2021, TAC expanded its slate of awards recognizing technical achievement. The Active Transportation Achievement Award will be awarded for the first time in 2022 to a TAC member organization that has demonstrated excellence in the improvement of facilities or services to encourage and benefit people who walk, bike, or use other forms of active transportation.
Technology Council Welcomes Volunteers to Two New Committees

To attract more volunteers and allow them to focus on their areas of expertise, the Technology Council created two new committees in 2021/22. The Intelligent Transportation Systems (ITS) Committee now provides TAC with a forum dedicated to both conventional and emerging topics in ITS, while the Digital Applications Committee explores critical innovations in areas such as digital twinning, big data and transportation analytics that are relevant across many of TAC’s focus areas.

Information about the mandate, goals, and leadership of these new committees is available on the Councils and Committees section of TAC’s website.

Connected & Automated Vehicles Task Force

Since 2018, this Task Force has provided a forum for dialogue and collaboration among transportation authorities, regulatory bodies, business, academia, and industry organizations. It has helped TAC members respond to the rapid development of connected and automated vehicle (CAV) technologies.

As 2021/22 ended, the Task Force was getting ready for its seventh and final meeting. Early in 2022/23 it will be dissolved and transitioned into the new Connected & Automated Vehicles Integrated Committee, reporting to the Technology Council. The important contributions made by CAV Task Force members are greatly appreciated.

Updating Knowledge on CAVs

In 2020/21, TAC released *Connected and Automated Vehicles: A Primer for Canadian Municipalities*, a concise publication intended to help municipal stakeholders make informed decisions on planning for a future with CAVs. Because this topic evolves quickly, the primer soon required an update – so volunteers of the CAV Task Force prepared a new version that integrated current definitions, knowledge tools, facts and figures. The updated primer was released in early 2022 and can be downloaded free in both English and French from TAC’s online Catalogue or the CAV resources webpage.

New Technology Achievement Award Announced

In the fall of 2021, TAC expanded its slate of awards recognizing technical achievement. The Technology Achievement Award will be awarded for the first time in 2022 to a TAC member organization that has demonstrated excellence in the use of advanced technologies to address road, highway, or urban transportation challenges.
Online Road Safety Training Coming Soon

As 2021/22 ended, TAC was busy preparing to launch North America’s foremost online training program for road safety engineering. *Road Safety for Canadian Practitioners* was developed in partnership with the Canadian Institute of Transportation Engineers, with funding and expertise from 10 other TAC member organizations. It includes five courses: Foundations of Road Safety, Measuring Safety, Human Factors and Road Safety, Solving Safety Problems, and Implementing Road Safety Programs. These courses cover introductory topics for transportation practitioners with basic experience, as well as more complex topics for those with intermediate to advanced experience.

This online training program will be the first offering available on TAC’s new learning management system, which enables courses that offer both live and on-demand learning, automatic tracking of each learner’s progress, and a range of testing options.

Studying Non-Standard Crosswalk Markings

With results expected in 2022/23, a pooled-fund project supported by 20 TAC member agencies is studying the use of non-standard crosswalk pavement markings (i.e., those not in TAC’s *Manual of Uniform Traffic Control Devices for Canada*). Provincial and municipal practitioners are frequently asked to use non-standard markings, and the study is investigating the impacts of such treatments on the safety of all road users with the goal of strengthening TAC’s technical guidance on the subject. More information on this project in progress is available on TAC’s website.

New Small Municipalities Achievement Award Announced

In the fall of 2021, TAC expanded its slate of awards recognizing technical achievement. The Small Municipalities Achievement Award will be awarded for the first time in 2022 to a TAC member organization that has demonstrated 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.
MUTCDC, Sixth Edition: Updated Content and Approaches

2021/22 saw the publication of the Sixth Edition of the Manual of Uniform Traffic Control Devices for Canada (MUTCDC). This foundational document, first released in 1960, is an essential tool for all professionals involved in traffic management and control, and prioritizes road safety.

The MUTCDC is a toolbox of road signs, traffic signals, pavement markings and other devices that communicate to pedestrians, cyclists, motor vehicle drivers and other road users about important regulations, roadway characteristics, potential hazards and temporary conditions. The Manual is not a regulatory tool or a standards document. Rather, it offers technical guidance for jurisdictions to consider in developing their own legislation and regulations, and for individual practitioners to consider when applying professional judgement in their local context.

The sixth edition is 60 percent longer than 2014’s fifth edition and involved a comprehensive rewrite and reorganization to make guidance easier to find and understand. More than 30 new traffic control devices, a section on dynamic message signs, and an index of devices by name and number were integrated into the MUTCDC. A new section, Typical Applications, shows examples of multiple traffic control devices at a common location. Greater consideration was given to vulnerable road users including children, seniors, cyclists, persons with disabilities, and novice and older drivers.

A portion of the revenues from sales of the MUTCDC is now allocated to a reserve fund dedicated to maintaining and updating it in the future. This fund complements another reserve, built through the annual contribution of 2% of membership fees received by TAC, dedicated to TAC’s foundational guidelines. These funds are a critical part of TAC’s responsibility to maintain guides, such as the MUTCDC and Geometric Design Guide for Canadian Roads, recognizing their significance to the transportation sector and the level of effort involved in recent update projects.

Information about the Sixth Edition MUTCDC and its purchase is available in the Publications and Resources section of TAC’s website. An updated version of the corresponding TAC Sign Patterns as well as the French version, Manuel canadien de la signalisation routière, will be released by the end of 2022.

One of the new road signs included in the Sixth Edition MUTCDC was an updated Moose Crossing sign. The story behind the new sign attracted the attention of Canadian media due to its unique backstory of being designed and submitted by a young driver, Chloé Chapdelaine.

“ The result of the MUTCDC, Sixth Edition project is a completely updated Manual that contains more comprehensive guidance with increased emphasis on transit, cycling and pedestrians. The content of the Sixth Edition reflects innovative treatments and well as current practices from across the country and further afield that are based on sound engineering principles. ”

Rob Hird, Senior Traffic Engineer and Deputy Provincial Traffic Authority, Nova Scotia Public Works, and Chair, MUTCDC Project Steering Committee
**Workforce Development**

**New Committees Support Workforce Development**

In 2021/22 the Council created new committees to conduct work under its main themes of education, human resources, and professional development. The Education Committee’s efforts will target post-secondary transportation-related programs, student interest in TAC and transportation careers, and increasing the use of TAC products as teaching tools. The Human Resources Committee will help TAC member organizations share information on best practices in recruitment, retention, health and wellness, and diversity, equity and inclusion. The Professional Development Committee is tasked with helping organizations encourage continuing education, knowledge management, mentoring, and young professional involvement in TAC.

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**Report on Highly Qualified Personnel in Transportation**

As TAC prepared to publish *Developing Highly Qualified Personnel for an Era of Connected and Automated Vehicles* just days after the end of 2021/22, interest in the publication was already growing. Presentations on the project to several TAC volunteer bodies including the Board of Directors had been delivered or scheduled, and the committees of the Workforce Development Council were considering the report’s recommendations for improving education, professional development and human resources practices.

The report identifies key trends in technology and mobility over the coming 20 years and suggests skillsets that road authorities will need to develop. It examines current measures to educate and train highly qualified personnel in Canada, inventories key gaps, and recommends a comprehensive action plan that suggests responsibilities for TAC as well as road authorities, post-secondary institutions, licensing bodies, businesses, and workforce development and research agencies.
Other Highlights

Answering Questions About Volunteering

More than 800 individuals, representing TAC member organizations, volunteer on a TAC council or committee. They gain knowledge while building their professional networks and leadership skills – all while contributing to Canada’s transportation sector.

Because TAC’s volunteer structure can seem intimidating to someone who is wondering where to begin, in 2021/22 the Association released a new Guide to TAC Councils and Committees to answer questions that current and prospective volunteers might have about getting and staying involved. This concise but informative guide is available online, in both French and English, from the Councils and Committees section of the TAC website.

Lunch & Learn Events Take Root

“Lunch & Learns” are a new addition to the engagement tools available to TAC councils and committees. In essence, they are invitation-only webinars for committee members that feature one or more invited speakers, with an opportunity for questions and discussion.

In 2021/22, the Active Transportation Integrated Committee held a Lunch & Learn on multimodal levels of service, and another on the use of wearable devices to inform transportation planning. The Transportation Planning Committee held an event on improving social equity through transportation projects and programs. The Soils & Materials Committee and Pavements Committee offered its members one Lunch & Learn on pavement rejuvenators, and two on recycled asphalt pavements. The number of committees planning Lunch & Learns continues to grow, and more events are planned for 2022/23.

Helping Businesses Showcase Their Innovations

During the pandemic, TAC’s supplier, consultant, and manufacturer members couldn’t avail themselves of many of the traditional opportunities to showcase their innovations, products, and services to the broader transportation industry. As a way to help, TAC’s sponsorship and advertising program adapted to provide Corporate Demo webinars and Sponsor Spotlight articles to these businesses.

Corporate demos were offered as part of the 2021 Conference & Exhibition, and also piloted in a webinar in June 2021 attended by about 50 people. Seven sponsor companies also provided articles that were published on TAC’s website, featuring a unique project, expertise, services, or technologies of interest to TAC’s members.

Both the Corporate Demo webinars and the Sponsor Spotlight articles were well received and are part of the 2022/23 Sponsorship Program.
Other Highlights

Technical Meetings and Academic Roundtable

TAC continued to enjoy strong participation in its technical meetings, which once again were held exclusively online in response to the COVID-19 pandemic. TAC also initiated a new technical forum in 2021/22. The Academic Roundtable met in June 2021 and was attended by 36 researchers and instructors from post-secondary institutions across Canada. For TAC, the meeting represented an important first step towards building a stronger relationship with academics in the transportation sector. The meeting yielded a number of ideas for TAC to consider as it works to strengthen its engagement with professors and students via its councils and committees, technical projects and publications. A second meeting of the Academic Roundtable was scheduled for June 2022.

2021 Conference & Exhibition

The 2021 TAC Conference & Exhibition was held online for a second year, offering sessions and events over two weeks – September 20 to October 1. The conference was again a success in terms of sharing technical information and participant numbers, but the virtual environment remains a challenging space for attendee networking. The conference, no matter whether online or in person, is a major undertaking that involves the collaboration and support of hundreds of people. TAC is grateful for the continued engagement and support of our members and stakeholders in their commitment to learn and share with each other.

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2021/22 — Year in Review

962 attendees
82 sessions
19 tracks
297 presenters
59 attendees per session

CONFERENCES & EXPOSITION
RECOVERY AND RESILIENCE
TRANSPORTATION AFTER COVID-19
SEPTEMBER 20 – OCTOBER 1
ONLINE • EN LIGNE

Webinars Offer Great Learning Opportunities

TAC webinars offer free, highly accessible learning opportunities throughout the year to practitioners across Canada. They are offered as live events and are also recorded for viewers to stream from TAC’s website on demand.

In 2021/22, TAC webinars attracted almost 2,600 participants. Five webinars featured new TAC publications:
- **Manual of Uniform Traffic Control Devices for Canada, Sixth Edition**
- **Managing and Enhancing Terrestrial Road Ecology**
- **Guide to Evaluating Soil and Material Stabilization Products**
- **Performance-Based Decision Making for Asset Management**
- **Guide to Utility Coordination on Public-Private Partnership Projects**

Several webinars featured the projects selected as finalists for TAC’s 2021 Technical Achievement Awards.

And finally, three webinars showcased initiatives that emerged from the activities of TAC member organizations: using future climate data to design resilient transportation infrastructure; using drones for structural inspections; and the impacts of automated vehicles on future traffic control devices – the year’s most popular webinar, with 470 attendees.
Other Highlights

Project Funding Commitments

TAC’s pooled-fund project model allows member and partner organizations to collaboratively produce national technical guidelines, syntheses of practice, and research reports. As shown below, TAC’s 2021/22 pooled-fund projects (including those in progress and those in development) were supported by a highly-diverse group of 46 organizations— and half of them supported three or more different projects.

Over the last 20 years, TAC has worked with almost 80 funding partners to undertake close to 150 pooled-fund projects with an aggregate value of $15 million.

This remarkable degree of success is testament to the benefits of the pooled-fund approach – by collaborating, funding organizations maximize the impact of their own resources and can leverage TAC’s experience in managing projects and producing respected publications. They also give their staff the opportunity to participate on project steering committees, where they work closely with their peers and experts from across Canada.

Meeting TAC’s Volunteers

Throughout 2021/22, TAC continued to publish articles profiling some of our most active volunteers. These articles gave readers a taste of the diversity of the people that comprise TAC’s network – their experience and backgrounds, geography, workplace settings, professional areas of expertise, and even their personal interests.

Visit the TAC News section of the website to learn more about these inspiring individuals.
Other Highlights

Making Connections Across the Transportation Sector

Collaborating and networking is an essential tool for exchanging best practice knowledge and learning about the latest innovations and industry developments. A wide network of informed, interconnected contacts means broader access to new and valuable information for TAC and our members. TAC strives to connect with other organizations in the transportation sector to ensure work on our shared interests is comprehensive, complementary and makes efficient use of our volunteers’ scarce resources.

In 2021/22, TAC worked with Transport Canada and the City of Calgary on planning and delivering the World Road Association’s 16th World Winter Service and Road Resilience Congress, the first ever to be held online (in February 2022). TAC also organized a foresight session, *Adapting Infrastructure for Resilience: Research and Experience*, as part of the program.

TAC staff and volunteers are engaged with the CSA Group’s Connected and Automated Vehicles Advisory Council, which is working towards the development of a CAV Code for North America and interim guidelines related to Digital Infrastructure, Physical Infrastructure, and Cybersecurity, Privacy & Data Management.

Connections were made with the Canadian Centre for Cyber Security (CCCS) to share and gather information about the state of cybersecurity in the transportation sector.

Cooperation with the CNIB advanced shared interests in accessibility issues relating to transportation.

*TAC maintained important connections with the following transportation organizations in 2021/22:*

Individual & Committee Awards

2021 Volunteer Contribution Award Recipients

**Distinguished Service Award**
- Jack MacDonald, City of Moncton

**Individual Contribution Award**
- Ethan Askey, City of Calgary
- Derek Drummond, Dawson Road Maintenance (formerly of Stantec Consulting Ltd)
- Lucas Knowles, Yukon Highways and Public Works
- Lisa Salsberg, Access Planning

**Leadership Award**
- Taso Koutroulakis, Halifax Regional Municipality
- Tim Murphy, Parsons
- Mark Popik, Thurber Engineering

**Committee Excellence Award**
- Road Safety Committee

2021 Young Professional Award Recipients

**Young Transportation Professional Award**
- Liraz Fridman, City of Guelph

**Allan Widger Consulting Corporation Grant for Young Geotechnical Engineers in Transportation**
- Jean-Pascal Cloutier, Ministère des Transports du Québec

2021 Student Paper Award Recipients

**1st Prize:**
Hassan Hamad, University of Saskatchewan
Investigating the Relationship between Speed Variability Measures and Road Safety: A Case Study of Residential Urban Streets in the City of Saskatoon

**2nd Prize:**
Hasan Shahrier, Dalhousie University
Scenario Development and Microsimulation of Travel Demand during COVID-19

**3rd Prize:**
Farshad Kamran, University of Alberta
Impact of Asphaltenes on Permanent Deformation of Stabilized Base Course Using Asphalt Emulsion

“Building on TAC’s long history and evolving our products and services for members’ benefit has been, and will remain, a priority to ensure TAC’s future.”

Dr. Sarah Wells, Executive Director