



Transportation Association of Canada

2024

T A C
AWARDS

RECOGNIZING OUR PEERS



Each year, TAC members recognize their peers with a number of prestigious awards.

Technical Achievement Awards

Recognizing TAC member organizations

- Active Transportation Achievement
- Climate Action Achievement
- Environmental Achievement
- Infrastructure Achievement
- Mobility Achievement
- Road Safety Achievement
- Small Municipalities Achievement
- Technology Achievement
- Workforce Development Achievement

Young Professional Awards

Recognizing emerging members in transportation

- Young Transportation Professional
- TAC Grant for Young Innovators in Transportation
- Allan Widger Consulting Corporation Grant for Young Geotechnical Engineers in Transportation

Volunteer Recognition Awards

Recognizing volunteers on TAC councils and committees

- Distinguished Service
- Leadership
- Individual Contribution
- Committee Excellence

In Recognition

Acknowledging outgoing volunteer leaders

- President's Award
- Outgoing Board Members
- Outgoing Chairs

Technical achievement

ACTIVE TRANSPORTATION

This award recognizes initiatives that improve facilities or services to encourage and benefit people who walk, bike or use other forms of active transportation.



City of Victoria, British Columbia

All Ages and Abilities Active Transportation Network

In a few short years, Victoria has created a city-wide All Ages and Abilities (AAA) active transportation network. Since 2017, the project's complete streets approach has improved cycling conditions, boosted multimodal levels of service, renewed infrastructure, and enhanced the public realm. The results are paying dividends with more people cycling and walking, safer streets, and better quality of life. The AAA network built on the pre-existing Galloping Goose and E&N rail trails, starting downtown where the greatest demand and safety concerns existed. Early steps were challenged by constrained rights-of-way, competing design objectives, limited resources, and extensive council and public involvement. Subsequent work has expanded the downtown grid to surrounding neighbourhoods and adjacent municipalities, providing more than 32 km of AAA corridors for residents, neighbours and visitors.

CLIMATE ACTION

This award recognizes initiatives that mitigate emissions from transportation that cause climate change and/or improve the resiliency of transportation systems in response to climate change.



City of Edmonton, Alberta

in partnership with AI-Terra Engineering and EPCOR One Water Planning

Strathcona and Garneau Neighbourhood Renewal

Edmonton's Neighbourhood Renewal program invested in the infrastructure, vibrancy and resiliency of two mature, centrally located neighbourhoods. The City's renewal strategy gave priority to climate resilience and sustainability, integrating low-impact development (LID) facilities that use bioretention basins to manage stormwater flows, adding trees and parklets in road rights-of-way to combat the urban heat island effect, and expanding traffic calming and active transportation facilities to reduce emissions. Taking an integrated, systems-based planning and design approach yielded cost efficiencies and reduced throwaway costs; it also facilitated cooperation and cost-sharing discussions among governments, utilities, local business and industry.

Technical achievement

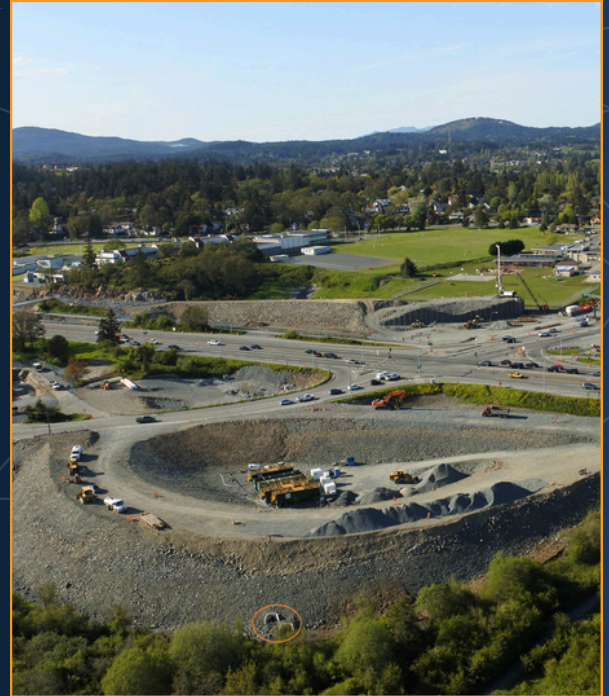
ENVIRONMENTAL

This award recognizes initiatives that protect and enhance the natural environment through transportation projects.

British Columbia Ministry of Transportation and Infrastructure

McKenzie Interchange Project

Before it could address a major congestion bottleneck, this grade-separated interchange project needed to manage complex environmental interests related to the adjacent salmon-bearing Colquitz River and Cuthbert Holmes Park, which features estuary, wetland, riparian and terrestrial habitats. A few of the project's environmental elements included: flocculant tanks to treat site sediment-laden water during construction; an engineered runoff treatment system within the interchange; wetland and pond construction to further polish water; in-river water quality data loggers; a "rough and loose" landscaping treatment to emulate primary forest succession and reduce erosion; four sets of dendritic channels along the river to provide tidal channel and estuary marsh habitat; bat and bird nesting and perching poles and boxes; and robust environmental auditing by the Ministry, project contractor, and a third-party consultant.



INFRASTRUCTURE

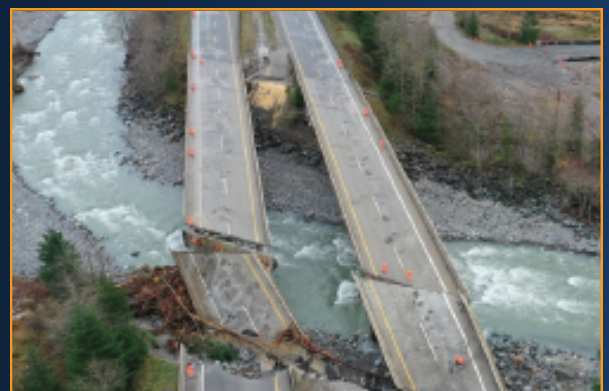
This award recognizes initiatives that use best practices to deliver safe, durable and efficient transportation infrastructure, with a focus on major road, highway and urban transportation assets.

British Columbia Ministry of Transportation and Infrastructure

in partnership with Kiewit

Highway 5 (3 Bridges) Reinstatement

A dramatic emergency response program allowed Highway 5 to reopen between Hope and Merritt, BC after torrential rainfall in November 2021. However, to complete permanent repairs the Ministry chose the innovative Alliance delivery model – in which the project owner, contractor and designer form an integrated project team to optimize delivery and share risks as well as rewards. At the time of project award there was no design concept, construction contract, governance plans or stakeholder consultation. To adhere to an ambitious timeline, activities that usually precede design (e.g. defining scope, specifications and business cases) proceeded in parallel with design, construction planning, and early procurement of materials. The Alliance team prioritized schedule when selecting bridge structural forms, geotechnical solutions, revetment designs, and traffic management strategies – with the result that all work (demolition of six damaged bridges, creation and removal of two temporary bridges, and construction of six permanent bridges) was completed within 18 months – two months faster than initially targeted.



Technical achievement

MOBILITY

This award recognizes initiatives that deliver integrated or multimodal mobility for people and goods while reinforcing the social, economic and environmental pillars of sustainability.



Société de transport de Montréal, Quebec *Preferential Measures for Buses*

Over the last 15 years, the STM has developed the world's largest network of preferential measures for buses – with bus-only lanes, shared lanes (with carpools or cyclists), synchronized traffic signals, and transit signal priority. As of 2023 the network includes 333 km of reserved bus lanes and 713 transit priority intersections. Routes are selected primarily on the basis of bus ridership and delay, and measures are designed to respond to actual conditions and maximize benefits for the greatest number of users. The travel time saved by scheduled bus trips is typically 5% to 20%, yielding annual operational savings of up to \$22 million. The centralized transit signal priority system implemented by the STM and its partner, the Ville de Montréal, represents a major innovation in intelligent transportation systems (ITS) and relies on state-of-the-art equipment to enable real-time communication between buses, traffic signals, and the traffic management centres of the STM, Montréal and other area municipalities.

ROAD SAFETY

This award recognizes initiatives that apply and advance best practices in road safety engineering.



City of Edmonton, Alberta *Speed Limit Reduction Initiative*

In 2021, Edmonton reduced the default speed limit from 50 km/h to 40 km/h on all residential local roads, most residential collector roads, and downtown arterial roads. This step was forecasted to reduce deaths by 20%, personal injury collisions by 10%, and “property damage only” collisions by 7%. Two years later, a before-and-after analysis observed a small but statistically significant 1.6 km/h reduction in the average 85th percentile speed (from 51.8 km/h to 50.2 km/h) – but a 25% reduction in collisions, and a 31% reduction in injuries and fatalities. These findings confirmed the initial assumption that small decreases in speed would lead to much larger safety improvements. Additional analysis showed that road design is a critical factor in achieving compliance with speed limits, with older “grid” neighbourhoods with shorter blocks and frequent intersections experienced greater speed reductions than “cul-de-sac” neighbourhoods with long, wide and uninterrupted collector roads.

Technical achievement

SMALL MUNICIPALITIES

This award recognizes initiatives that improve transportation systems in rural or small urban communities, with a focus on road safety and traffic operations.



Town of Lincoln, Ontario

in partnership with Arcadis

Jordan Village Improvement Project

This major rebuilding and improvement project created a vibrant downtown anchor for residents, businesses and tourists by focusing on active transportation, safety, complete streets and local heritage. It included reconstruction of major roadways and underground utilities, conversion of a five-leg stop-controlled intersection to a four-leg signalized intersection, 1.6 km of cycle tracks, 3.3 km of new or upgraded sidewalks, three new pedestrian crossovers, and a greener, more accessible and decorative public realm. History and placemaking were at the heart of the project and key to building public support – with key examples include the creation of a public plaza from one leg of the former five-leg intersection, and the inclusion of five large stone pillars as wayfinding features.

TECHNOLOGY

This award recognizes initiatives that use advanced technologies to address road, highway or urban transportation challenges.

Ministère des Transports et de la Mobilité durable du Québec

Digital Twin for the Pierre Laporte Bridge

The Pierre Laporte Bridge across the St. Lawrence River at Quebec City is the longest suspension bridge in Canada. It is more than 50 years old and faces a long list of maintenance requirements. Traditional approaches to conducting the required work would pose many challenges, so the MTMD decided to leverage early North American experiences with building information modelling (BIM), or digital twinning. Innovative technologies used in the project include 3D visualization, 4D simulation of different project stages, LIDAR surveys, 360-degree photography and photogrammetry, AI-assisted imaging analysis, a finite-element structural model paired with the digital twin, and digital tendering. MTMD succeeded in producing a digital twin quickly and at low cost, by targeting priority needs and leveraging in-house expertise. The project represents a valuable precedent for innovation in bridge management, and a sustainable and economically viable solution to technological and financial challenges.



WORKFORCE DEVELOPMENT

This award recognizes initiatives in post-secondary education, professional development or human resources management that support the creation of a skilled, interdisciplinary workforce for Canada's transportation sector.

City of Vaughan, Ontario

Transportation Youth Ambassadors Program

Vaughan's Transportation Youth Ambassadors Program has led to better staff understanding of youth's transportation priorities, more interest from young adults in transportation careers, and a greater representation of young adult voices in local decisions around transportation. It originated when the City was looking to engage youth on transportation issues, and local schools were concurrently looking to expose students to different careers through real-life experience. The program includes two main categories of "by youth for youth" activities: youth input through peer-to-peer engagement (e.g. focus groups, educational tools, youth surveys on emerging transportation issues), and youth education through peer-to-peer outreach (e.g. student delivery of active school travel content, peer outreach at City events, education through games).



DISTINGUISHED SERVICE

This award is TAC's highest honour.

It recognizes leaders who have had a tangible and enduring impact on the association's progress toward its vision and mission, and thereby on Canada's transportation sector. Recipients have contributed actively to TAC councils and committees for at least 15 years, among their 25 years or more of industry experience.

Volunteer recognition



Geoffrey Ho | G. Ho Engineering Consultants

Geoff has demonstrated a commitment to excellence and innovation over more than two decades of active service on TAC's Road Safety Committee. Over his career of more than 30 years he has had a significant impact on the practice of road safety engineering in Canada – providing expertise and guidance to all orders of government, as well as to his colleagues within TAC. He previously received TAC's Award for Service in 2013.

Geoff has been a driving force behind the national advancement and application of road safety audits and in-service road safety reviews. During his time (2002-2019) as Co-Chair of the Canadian Road Safety Handbook (CRaSH) Subcommittee, it produced *Guidelines for the Network Screening of Collision-Prone Locations*, the *Applied Human Factors in Road Safety Guide*, and the *Speed Management Guide*. Among many other volunteer roles, he co-authored TAC's *Road Safety Engineering Management Guide* and *Canadian Road Safety Audit Guide*, sat on the Project Steering Committee for the *Canadian Guide to In-Service Road Safety Reviews*, and provided a pre-publication safety-focused review of TAC's *Geometric Design Guide for Canadian Roads*. Outside TAC, Geoff participated in the development of the national *Road Safety Vision 2010*, and has actively contributed his expertise to global organizations including PIARC, the International Road Federation, and the International Standards Organization.



Jeannette Montufar-MacKay | MORR Transportation Consulting Ltd.

Jeannette has played a uniquely important role as innovator and leader in road safety, freight systems and traffic engineering in North American and Latin America for well over two decades. As a professor at the University of Manitoba for almost 15 years, and then as a founding partner of MORR Transportation Consulting, her work continues to forge a lasting impact on transportation engineering in Canada and to inspire others to enter the field.

As a consultant, Jeannette has played senior roles in the development of TAC publications such as *Developing Highly Qualified Personnel for an Era of Connected and Automated Vehicles*, *Performance-Based Decision Making for Asset Management*, *Safety Performance of Bicycle Infrastructure in Canada*, *Pedestrian Crossing Control Guide – Third Edition*, and *Traffic Monitoring Practices Guide for Canadian Provinces and Municipalities*. She is a member of TAC's Board of Directors, Past Chair of its Technology Council, and a long-standing member of the Road Safety Committee and Traffic Operations & Management Committee. She has also been a TAC Foundation board member, President of ITE Canada, and a leader in other organizations including the Transportation Research Board, the Canadian Association of Road Safety Professionals, Engineers Geoscientists Manitoba, and the Winnipeg Chamber of Commerce. She previously received ITE's H. Robert Burton Distinguished Service Award and the Wilbur Smith Distinguished Transportation Educator Award.



Lisa Salsberg | Access Planning

Over her 30-year career, Lisa has built a legacy of innovation in public service, leadership within TAC, and mentorship for emerging professionals. She has shaped many of Canada's largest metropolitan regions for the better, holding leadership positions for 10 years at Metrolinx and leading major planning assignments as a consultant for TransLink in Greater Vancouver and the Autorité régionale de transport métropolitain in the Montréal region. During Lisa's time in Ontario's public service, her major accomplishments included key roles in the 2006 *Growth Plan for the Greater Golden Horseshoe*, and Metrolinx's 2041 *Regional Transportation Plan* plus follow-up projects on mobility hubs and urban freight.

Lisa has been actively engaged as a TAC volunteer since 2008, including leadership roles on the Mobility Council and Transportation Finance Committee. She was a driving force behind the TAC publications *Changing Practices in Data Collection on the Movement of People* and *Transportation Funding and Governance in Canada's Large Metropolitan Areas*. She also organized and participated in many TAC conference panel discussions on pricing, public-private partnerships, and performance-based decision making. Lisa previously received TAC's Individual Contribution Award in 2021.

LEADERSHIP

This award recognizes individual volunteers who have provided continuous, effective leadership during 10 or more years of active participation on TAC councils and committees, and who have earned a reputation among other TAC volunteers for their dedication, collaboration, knowledge and integrity.



John Bolger | City of Calgary

John has been a leader in many activities of the Geometric Design Committee (GDC) over the last decade. In addition to terms on the Executive including as GDC Chair in 2019-2021, he was a Project Steering Committee member for the pooled-fund projects that led to TAC's *Geometric Design Guide for Canadian Roads* and its *Canadian Roundabout Design Guide*.

He has also played a key role in bringing different councils and committees together on issues where effective geometric design is closely related to other objectives. He has been an important and collegial liaison on mobility and active transportation issues since 2015, including as a member of the Mobility Council and the Active Transportation Integrated Committee. Over the same timeframe, he has also been a member of the Joint Roundabouts Subcommittee where design, operations and road safety practitioners come together.

Volunteer recognition



Dawn Irish | Ontario Ministry of Transportation

Since 2012, Dawn has provided leadership in Executive and volunteer roles on the Environment & Climate Change Council and its Environmental Legislation Committee and Environmental Issues Committee, where her passion and expertise have helped advance important initiatives.

She has been instrumental in guiding the Council in its work toward a collaborative approach to Indigenous participation in project delivery, and was Chair of the Project Steering Committee for the pooled-fund project leading to the 2019 TAC publication *Beneficial Practices for Compliance with the Migratory Birds Convention Act and Regulations*. Even while fulfilling her Executive duties, Dawn remains a dedicated and knowledgeable volunteer who contributes significant value to technical discussions and projects.



INDIVIDUAL CONTRIBUTION

This award recognizes individual volunteers who have exhibited notable levels of initiative, creativity, effort and/or technical excellence in contributing to the work of TAC councils or committees over the preceding 5 years.

Volunteer recognition

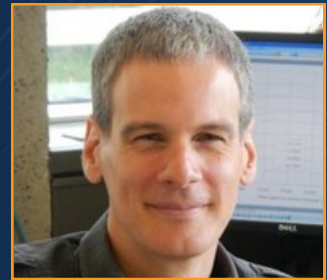
Raheem Dilgir | TranSafe Consulting Ltd.

Over the last decade Raheem has contributed to several TAC committees, including the Road Safety Committee (RSC), with his efforts as founding Co-Chair of the RSC's Vision Zero and Safe System Subcommittee (VZSSS) being particularly notable. The VZSSS has had an outsized impact since its creation in 2020, and Raheem was a consistent, dedicated presence throughout that time as a small group of dedicated volunteers connected with external partner organizations, conducted multiple conference sessions each year, presented to many other TAC councils and committees, surveyed the status of Vision Zero and the Safe System approach in Canadian jurisdictions, and developed TAC's 2023 publication *Vision Zero and the Safe System Approach: A Primer for Canada*.



Félix Doucet | Ministère des Transports et de la Mobilité durable du Québec

Félix has been an active participant on the Soils & Materials Committee and the Pavements Committee since 2016. He has contributed his expertise on pavement design to the Mechanistic Empirical Pavement Subcommittee since 2010, and was a TAC liaison to the AASHTOWare Pavement ME Design Task Force from 2015 to 2022. Félix is a member of the Recycled Asphalt Pavement (RAP) Working Group as well as the Project Steering Committee for TAC's pooled-fund project on using RAP in asphalt mixtures.



David Kriger | David Kriger Consultants Inc.

David has been a long-standing member of the Transportation Planning Committee and Transportation Finance Committee, where he has shared his deep knowledge on goods movement and on planning processes including mobility data collection and modelling. As Chair of the Transportation Finance Committee from 2019 to 2021, David led members through a participatory exercise to identify the group's strategic priorities. Afterward, he led a volunteer working group that fulfilled one of those priorities by creating the report "Importance of Transportation Funding: Framing the Issues" and presenting it to other TAC volunteer groups.



Zane Sloan | Arcadis

Zane has been a member of the Geometric Design Committee (GDC) for almost two decades, and in recent years has been a leader in addressing the need to create more resilient road systems in response to climate change. As Chair of the committee's Adaptation to Climate Change Working Group he has helped develop, promote and conduct a series of volunteer workshops where attendees applied PIEVC processes to TAC's *Geometric Design Guide for Canadian Roads*, with the goal of identifying the priority risks posed by climate change to safety and resilience. He has presented the results to TAC's Chief Engineers and other volunteer groups, effectively balancing the urgency of the issue against the need to ensure technical rigour and buy-in from various stakeholders.



Roy Symons | ISL Engineering and Land Services Ltd.

Roy has been a member of the Transportation Planning Committee since 2013 and the Active Transportation Integrated Committee since 2019. Over that time, he has generously shared his experiences with innovative facilities for walking and cycling, ultimately chairing an ATIC working group on continuous sidewalks. Roy was the lead author of the report produced by that group, which was published as TAC's first-ever "Emerging Practice Briefing" in 2023. In addition, he prepared and presented a TAC webinar on the topic that attracted a near-record 450 attendees.

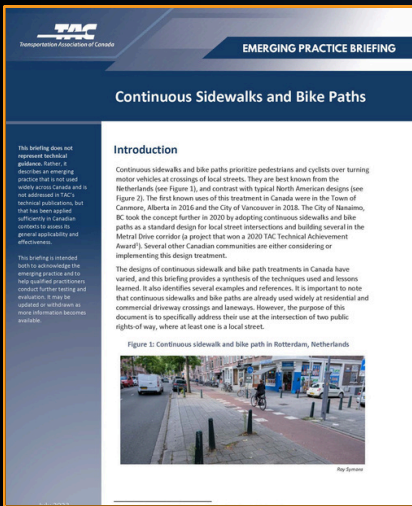




COMMITTEE EXCELLENCE

This award recognizes excellence and innovation by TAC's volunteer committees, subcommittees, working groups and project steering committees. Recipient groups have contributed to TAC's vision and mission through initiatives in the areas of knowledge building, professional development, or member engagement.

Volunteer recognition



Active Transportation Integrated Committee

ATIC is one of TAC's four "integrated committees" that were created as hubs for collaboration on technical issues that interest multiple groups. Since its launch in 2020, ATIC has grown to be one of TAC's largest committees, with more than 100 practitioners representing 67 different member organizations. It has developed tools and procedures to identify and address emerging challenges and opportunities, and fosters active engagement with about 10 other committees including those focused on design, safety and operational issues. ATIC also holds regular Lunch & Learn and online roundtable events, developed TAC's first-ever "Emerging Practice Briefing" on the topic of continuous sidewalks and bike paths, and in 2024 is sponsoring the most sessions of any committee at the TAC conference.

Mechanistic-Empirical Pavement Design Subcommittee

Since its evolution from a user group in 2020, this subcommittee has provided Canadian leadership for users of the AASHTOWare pavement design software. It helps users understand the tool's features, benefits and limitations, and has created a Canadian guide to default parameters that support locally appropriate pavement designs. The subcommittee seeks resolution of software bugs and other issues, and advocates for improvements in updated releases. Its members test new versions of AASHTOWare by running trials and presenting results at the TAC conference, and also invite international experts to share their work at the subcommittee's meetings and conference sessions.

Non-Standard Pavement Markings for Crosswalks Project Steering Committee

This Project Steering Committee successfully guided a challenging research project that investigated the safety of non-standard pavement markings for crosswalks, such as rainbow crossings and other decorative treatments. Representatives from 20 funding partner organizations provided their expertise and worked closely with the consulting team to conduct innovative simulated field testing and understand potential impacts on a wide range of potential road users, while rigorously addressing technical issues such as visibility, comprehension, distraction, slip and skid resistance, and automated vehicles. The project will inform future updates to TAC's *Manual of Uniform Traffic Control Devices for Canada*.



Young professional

YOUNG TRANSPORTATION PROFESSIONAL

This award recognizes an employee of a TAC member organization who is 35 years old or less, and who has demonstrated personal accomplishments, industry and professional contributions, and leadership.



Maggie Boeske | City of Edmonton

In less than a decade of professional practice, Maggie has established herself as a local and national leader in planning and designing for active transportation, actively contributing at the level of both vision and on-the-ground implementation. She has been a key player in several ambitious and innovative transportation projects in Edmonton including its *Bike Plan*, *Safe Mobility Strategy* and *Complete Streets Design and Construction Standards*. Outside her focus on corridor renewal projects, Maggie has also worked to build capacity by presenting to groups across the city about new transportation standards, policies and tools, by organizing cycling tours to help City staff understand how design impacts different users, and by working with internal stakeholders to overcome the challenges presented by new approaches.

Maggie is an active member of TAC's Active Transportation Integrated Committee, where she contributed to TAC's recent *Emerging Practice Briefing: Continuous Sidewalks and Bike Paths*. She has made technical presentations to TAC's Road Safety Committee and Active Transportation Integrated Committee, and to a national audience during a TAC webinar on traffic calming. She is a registered professional engineer, and holds a BSc in civil engineering from the University of Alberta.

GRANT FOR YOUNG INNOVATORS IN TRANSPORTATION

This award provides financial support to help a young professional participate in TAC's technical meetings and annual conference. It is made possible through the generosity of Scott Stewart & Associates.



Jacob Malleau | Arcadis

Jacob is a Product Manager and Curbside Mobility Specialist with Arcadis, a role that began with a winning hackathon idea and led to the CurblIQ data management platform. He has overseen the collection of more than 10,000 km of curb data for clients, the creation of analytics and visualization tools, and integration with a mobile app to offer real-time parking availability, wayfinding and payment. In four years he has advanced from being the only full-time team member to managing a team of five and overseeing CurblIQ's system architecture and features.

ALLAN WIDGER CONSULTING CORPORATION GRANT FOR YOUNG GEOTECHNICAL ENGINEERS IN TRANSPORTATION

This award provides financial support to help a young geotechnical engineer participate in TAC's technical meetings and annual conference.



Jean-Gabriel Dorval | Ministère des Transports et de la Mobilité durable du Québec

Jean-Gabriel brings a wide range of experience to his role at MTMDQ, with a focus on northern regions. He has been an engineer for construction firms and the provincial government, and also completed a Master's degree in Nordic Engineering from the Norwegian University of Science and Technology. For the last three years he has worked to improve gravel runways and other structures at airports in northern Quebec, introducing innovations such as a granular wearing course stabilized at depth for Hudson Bay's busiest airport.



In recognition

PRESIDENT'S AWARD

This award recognizes the contributions of each outgoing TAC President, who also chairs TAC's Board of Directors.

Sarah Thiele | formerly of Manitoba Transportation and Infrastructure

OUTGOING BOARD MEMBERS

Sarah Thiele | formerly of Manitoba Transportation and Infrastructure

Blair Wagar | formerly of Saskatchewan Ministry of Highways

OUTGOING CHAIRS

Retiring chairs of TAC councils, standing committees, task forces and project steering committees

Councils

Chief Engineers Panel

Taryn Scollard, City of Vancouver

Committees

Environmental Issues Committee

Robin Taylor, Ausenco

Environmental Legislation Committee

Melissa Rutherford, CBCL Limited

Small Municipalities Integrated Committee

James Mallet, Paradigm Transportation Solutions Limited

Soils & Materials Committee

Sina Varamini, CRM Rubber

Project Steering Committees

Bridge Surfacing with Asphalt Mixtures

Ania Anthony, Saskatchewan Ministry of Highways

Dave Besuyen, Alberta Transportation and Economic Corridors



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