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Canadian Institute of Transportation Engineers Quarterly Newsletter

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Highlights and photos from Edmonton
including the 2018 CITE Excellence in
Transportation Award winners




VOLUME 40 : NUMBER 2 | SUMMER 2018

EQUITY & MOBILITY

BY RYAN MARTINSON
JULY 2018

THE WORD "EQUITY" SOUNDS A LOT LIKE "EQUALITY"



... BUT THERE MUST BE A DIFFERENCE... AND WHY SHOULD WE CARE ABOUT IT?

SPECIAL EDITION!

WHAT DOES EQUITY MEAN FOR TRANSPORTATION PROFESSIONALS?

12 PAGE COMIC INSIDE!



VEHICLE, CYCLIST, AND PEDESTRIAN DETECTION

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features

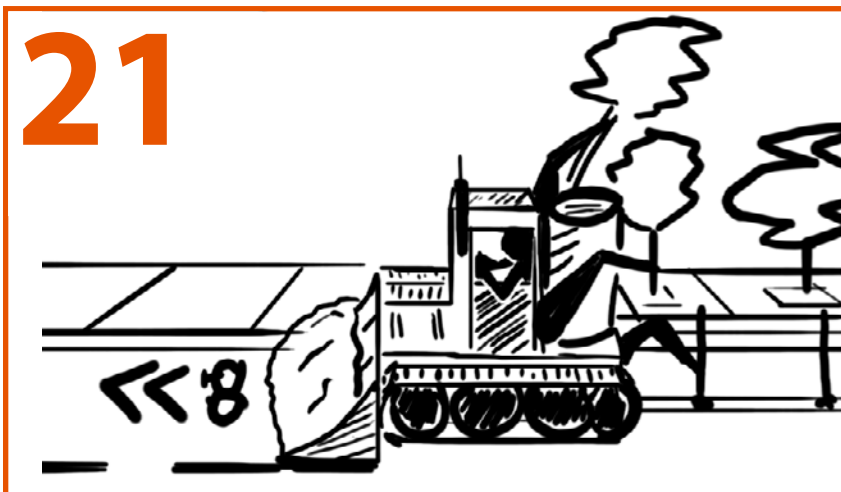
- 5 **Edmonton 2018 Annual Conference Highlights**
The 2018 CITE Conference wraps up with thank yous, photos, and highlights
- 9 **CITE Excellence in Transportation Awards 2018**
*Honouring the best and brightest in the profession and shining the spotlight on our student award winners and the **2018 Canadian Collegiate Traffic Bowl***
- 15 **Ottawa 2019 Save the Date**
Mark your calendars for the 2019 CITE Annual Conference in Ottawa, Ontario
- 17 **Student Leadership Summit**
*Abby Scaletta presents an overview of CITE's first Student Leadership Summit (SLS) and the **My Favourite...** feature returns with highlights from SLS participants*
- 21 **Equity and Mobility**
Ryan Martinson considers how practitioners, agencies, and the profession can act on equity in our transportation systems with Transportation Talk's first comic
- 45 **Member Highlight: Farhad Shahla, Toronto Section President**

CITE news & business

- 15 Student Leadership Summit
- 33 TAC Tidbits
- 40 TLC Call for Volunteers
- 41 Training Calendar & Complete Streets Workshop
- 43 CITE's Incorporation: What does it mean for you?
- 47 Section News
- 53 Student Chapter News

regular columns

- 1 President's Ponderings
- 2 District Director's Message
- 58 Welcome New Members
- 59 Advertising Directory
- 60 CITE Contacts



president's ponderings



EDWARD SOLDO, P.Eng., FITE
Canadian District President
president@cite7.org

Summer is finally here!

Hopefully when you are reading this article, you're on a lounge chair getting some sun, maybe by a lake or a pool somewhere in this great country of ours.

The 2018 CITE Annual Meeting in Edmonton has come and gone. It was a success on so many levels with over 350 delegates, lots of great technical sessions and tours to choose from, and fabulous warm weather. Thank you to the Local Arrangement Committee for all your hard work and dedication. Your efforts made for a great conference!

At the CITE Excellence in Transportation Awards lunch, it was great to acknowledge our promising student award winners and honor many deserving members for outstanding achievements and distinguished service.

This year's recipient of our most prestigious award, the H. Robert Burton Distinguished Service Award, is a prime example of a member who has dedicated much of their career to the transportation profession and our organization. She held executive positions with the Toronto Section and the

Canadian District, including International Director. It was an honor to present the award this year to Joanna Kervin.

Special thanks as well to the representatives from the University of Manitoba and University of Alberta who arranged and hosted the first CITE Student Leadership Summit. It was a great event and we are looking forward to this becoming an annual event as part of the conference.

At our Board of Directors meeting, a number of key decisions were made. It is my pleasure to congratulate the BC Interior Section as their charter was approved and they are officially a new section of CITE.

In 2020, the CITE Annual Meeting will be held in Vancouver as the Board of Directors approved the submission from the Greater Vancouver Section. Congratulations to Jan Voss on being designated as the Local Arrangements Committee Conference Chair and Ryan Vanderputten as the Executive Liaison. Looking forward to a boat cruise!

Enjoy the summer. Maybe I will see you at the Joint ITE International and Midwestern/Great Lakes Districts (MWITE/GLITE) Annual Meeting and Exhibit in Minneapolis, MN on August 20-23. I will be there cheering on the University of Manitoba as they participate as our CITE champions in the ITE Collegiate Traffic Bowl.

If there is anything you want to share about CITE, or have any questions that I can help out with, please feel free to drop me an email at esoldo@cite7.org.

A handwritten signature in cursive script that reads "Edward Soldo".

EDWARD SOLDO, P.Eng., FITE
Canadian District President



Several H. Robert Burton Distinguished Service Award recipients were present at the 2018 CITE Excellence in Transportation Awards lunch in Edmonton. Left to Right: Allen Swanson (1993), Dave Richardson (2006), Alf Guebert (2012), Joanna Kervin (2018), Dan Havercroft (2014).

district director's message

With summer finally here, it's time to get outside and enjoy the excellent weather!

I would like to begin by thanking the Local Arrangements Committee of the recently completed CITE Annual Conference in Edmonton. Unless you have organized one of these events, you cannot appreciate the amount of work and commitment that goes into preparing for and hosting a crowd of more than 350 transportation practitioners from across the county. As usual, the meeting offered a range of informative technical sessions and opportunities to network with colleagues and catch up with old friends. Well done Edmonton! Now over to the team organizing next year's conference in Ottawa.



GENE CHARTIER,
M.A.Sc., P.Eng., FITE
Canadian District Director
director@cite7.org

A special shout out to this year's recipient of the H. Robert Burton Award, Joanna Kervin. I had the distinct pleasure of serving with Joanna on both the Toronto Section and Canadian District Executive Committees. Never have I met a more passionate transportation practitioner. Joanna's professionalism, integrity, and commitment to ITE and her family are remarkable and make her a role model for our younger members. Congratulations Joanna on such a well-deserved honour!

The annual conference week is always a busy time for CITE and became more eventful this year with the first Canadian Student Leadership Summit (SLS). A conference "for students, by students", the summit featured an assortment of engaging and insightful sessions intended to improve professional and leadership skills for students entering the workforce. Over 30 ITE Student Members participated in the inaugural event held on June 2 and 3 at the beautiful campus of the University of Alberta. I had the opportunity to serve as mentor to the organizing committee co-led by Student Chapter Presidents Abby Scaletta from the University of Manitoba and Suliman Gargoum of the University of Alberta. The team of young professionals leading the event did an unbelievable job organizing and delivering the summit. Kudos.

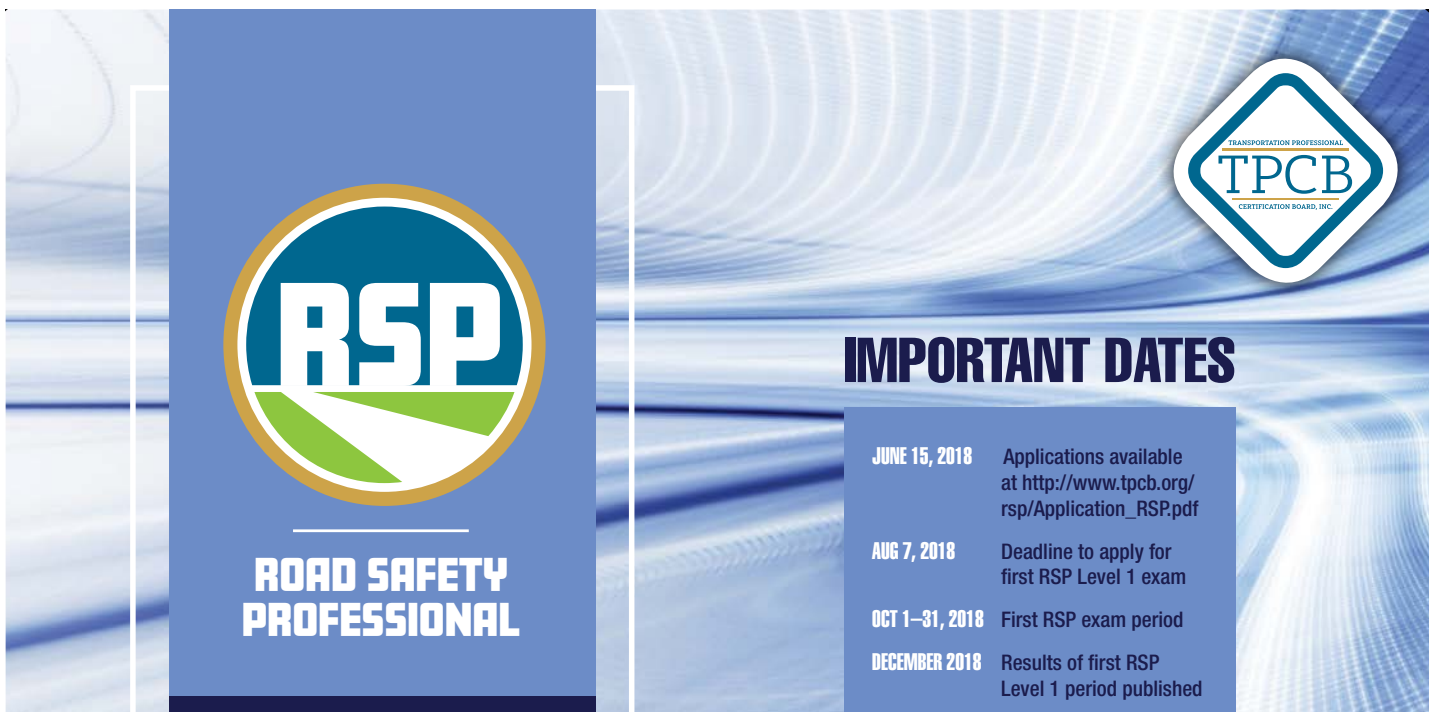
NOTES FROM ITE INTERNATIONAL

- The **2018 ITE Annual Meeting and Exhibit** is set for Minneapolis, MN from August 20 to 23. Registration is tracking slightly ahead of last year's conference in Toronto and promises to be another outstanding event. If you have the opportunity, I encourage you to attend. For those already registered, see you there! Check ITE's meeting website ite.org/annualmeeting for real-time updates.
- ITE continues to offer a strong series of **professional development webinars** and **ITETalks Transportation Podcasts** on a variety of topics. Consider participating in one if you've never taken the opportunity.
- ITE is redesigning its **website**, with the launch of the updated platform anticipated in August just prior to the Annual Meeting and Exhibit. The redesigned site will be mobile-friendly and have a much cleaner look and feel.

...continued on page 3

district director's message

- The update of ITE's landmark publication *Parking Generation* is well underway. ITE is coordinating data collection and analysis with the National Parking Association and Urban Land Institute in a concurrent update to Shared Parking. Work is also ongoing with Transoft to develop a web app like the TripGen tool. ITE received new parking demand data from over 750 sites in response to its call for submissions earlier this year. The updated *Parking Generation* report is expected to be available in early 2019.
- In addition to *Parking Generation*, ITE is at various stages of development on several other **technical reports**, including:
 - › Guidelines for Determining Traffic Signal Change and Clearance Intervals
 - › Transit and Traffic Impact Studies Informational Report
 - › Preemption of Traffic Signals Near Railroad Crossings
 - › Sustainable Traffic Signal Development
 - › Multimodal Transportation Impact Assessment (MTIA) for Site Development
 - › Unsignalized Intersection Improvement Guide
 - › Traffic Signal Benchmarking and State of the Practice Report
 - › Rural Transition Zone e-primer
 - › Self-Enforcing Roadways Report
 - › Highway-Rail Grade Crossing Handbook
 - › Development of Crash Modification Factors for Different Separated Bike Lanes
- The Transportation Professional Certification Board (TPCB), with the support of a wide array of transportation- and safety-related organizations in the United States and Canada (including CITE), has introduced a new two-level **Road Safety Professional (RSP) Certification** program. The first Level 1 RSP exam will take place in October 2018, with the inaugural Level 2 exam scheduled for late 2019. Be among the first to receive this important certification. For more information and to apply for the first RSP Level 1 exam, go to www.tpcb.org/rsp/default.asp. The deadline to apply is August 7, 2018!



The graphic features a blue background with a white grid pattern. On the left, a circular logo contains the letters 'RSP' in white on a blue background, with a green and white road graphic below it. Below this logo, the text 'ROAD SAFETY PROFESSIONAL' is written in white. On the right, the TPCB logo is a diamond shape with 'TRANSPORTATION PROFESSIONAL' at the top, 'TPCB' in the center, and 'CERTIFICATION BOARD, INC.' at the bottom. Below the TPCB logo, the text 'IMPORTANT DATES' is written in large, bold, white letters. Underneath, a table lists key dates and events.

JUNE 15, 2018	Applications available at http://www.tpcb.org/rsp/Application_RSP.pdf
AUG 7, 2018	Deadline to apply for first RSP Level 1 exam
OCT 1–31, 2018	First RSP exam period
DECEMBER 2018	Results of first RSP Level 1 period published

CITE MEMBERSHIP DUES

In its continuing efforts to streamline operations and rationalize inconsistencies, ITE International Headquarters staff recently completed a review of the organization's membership dues structure. The recommendations of the review were presented to the ITE International Board of Direction at its meeting on May 16 and approved for implementation in 2019. The most significant change to the dues structure impacting CITE was elimination of the "Canadian District rebate." For years, ITE has returned a 20% share of the International dues paid by Canadian District members to CITE, on top of the dues levied by the District. This Canadian District rebate was intended to compensate for ITE services enjoyed principally by U.S. members (e.g., government advocacy, U.S.-oriented standards and technical products). In its place, Canadian District members will receive a new 15% discount off of the U.S. member price for the ITE International portion of dues and CITE will no longer receive this rebate from ITE.

To offset the reduction in revenue from the lost Canadian District rebate, CITE must increase the District portion of the dues amount. The rebate amount CITE received from ITE International for 2018 was between \$43.00 and \$48.00 per member (all amounts in U.S. dollars). However, increasing District dues by an amount equal to the rebate is not considered necessary at this time given CITE's somewhat favourable financial position. On this basis, the CITE Board of Directors approved an increase in the Canadian District portion of annual dues for all membership categories (other than Student Member) from the current amount of \$30.00 to \$60.00 per member beginning in 2019 to compensate for the elimination of the rebate.

Doubling the District dues portion to \$60.00 will result in a nominal \$10.00 to \$15.00 increase in the total price charged to CITE members for 2019. This accounts for the new 15% discount for Canadian District members on the dues prices being charged to U.S. members, which are increasing by \$10.00 next year. The increase in total dues is almost identical to the amount members would have experienced without the Canadian District rebate/dues change after considering the \$10.00 International dues increase.

More information is available in the [report](#) that was presented to the membership at the AGM in Edmonton. CITE will continue to monitor the financial implications of this change and consider the need for further dues adjustments as time progresses.

DISTRICT DIRECTOR ELECTION RESULTS

Last, but certainly not least, congrats and welcome to my colleague Jen Malzer, the incoming Canadian District Director. Jen will begin her term in January 2019 but has the remainder of this year to become better acquainted with the duties and responsibilities of the Director position and familiar with the issues currently before the ITE International Board of Direction. There is no one more enthusiastic about ITE and CITE than Jen. I know she will do a great job for us in the years to come!

Thanks everyone for reading this column. Have a great summer. I hope to see you all in Minneapolis.



GENE CHARTIER
Canadian District Director

THANK YOU FROM YOUR EDMONTON LOCAL ARRANGEMENTS COMMITTEE

The 2018 CITE Conference in Edmonton is in the rear view mirror but your Local Arrangements Committee is still basking in the sincere gratitude we feel to our delegates, sponsors, exhibitors, speakers, and volunteers that led to such a successful conference. Our 350 delegates were fortunate to enjoy some great weather, fascinating tours, delicious food, and informative sessions. The partnership with the [Conference Board of Canada's Autonomous Vehicle Conference](#) was a unique opportunity for delegates across both conferences to learn from each other and the incredible experience in the room.

As always, it was a jam packed week with [many highlights](#) in the social and technical programs. Rave reviews were heard for the technical tours, which gave delegates a chance to see Edmonton's evolving transportation landscape on the ground. Other highlights of the week included watching the transportation professionals of the future test their knowledge in the Traffic Bowl, our highly competitive annual street hockey challenge, and a busy student mixer. We would be remiss to not mention the fantastic [technical program](#) that covered a breadth of professions, expertise, experience, and projects. The successes and challenges of every project and experience highlighted in the technical program were learning opportunities for all of us.

Our LAC was so happy to welcome you to our City and share some local lessons in transportation planning and engineering and we are grateful to everyone who brought lessons and projects from across the Country. We are all better when we share knowledge, ask tough questions, and can grow together as transportation professionals across borders and disciplines. The time taken by each and every presenter, exhibitor, speaker, and volunteer exemplifies the passion and generosity that make these events successful and possible. Meanwhile, the investments by our sponsors allow us to continue to host such fabulous events.

Let's all get back to work on the projects that will fill up next year's technical program. We look forward to seeing you and hearing all about it in Ottawa in 2019!



ENGAGING TOURS & SPECIAL EVENTS

Alex Nolet
@alex_nolet

The best part of #2018CITE ... the bike tour. Pretty neat bike facilities!@itecanada



Jen Rutledge
@superninjendo

Another fun #2018CITE #yegbike tour exploring Edmonton's south side bike lanes! Engineers from Vancouver, Kamloops, Winnipeg, Toronto & Montreal were a great group and asked lots of questions. Attempted a funicular record - 9 bikes & 10 people! #ExploreEdmonton



Shoni Madden
@shonimadden

Thanks for the great #CITE2018 bike tours, we saw so much of your gorgeous city, keep up the protected facilities, they are awesome! @CityofEdmonton #yegbike @PlanEdmonton



Check out the conference album on Facebook for more photos and highlights!

Erin Toop
@erintoop

Another year, another epic @itecanada street hockey game. #2018CITE #yegdt



THOUGHT PROVOKING KEYNOTE SPEAKERS & TECHNICAL PRESENTATIONS



Tyler Golly
@tylergolly

Great presentation from Greg Zeschuk formerly of @BioWare and currently the Ritchie Market.
"If I had to define a mission statement, I wanted to start a brewery I could ride my bike to. And to create a community."
#2018CITE @itecanada



CITE
@itecanada

Thanks to @davidlmowat for his keynote address at #2018CITE. Transportation professionals have a key role to play in designing healthy communities. See the report from @CPHO_Canada at ow.ly/L2Pw30kIYa9



Erin Toop
@erintoop

I really enjoyed this afternoon's social inclusion workshop, designed by an awesome @CityofEdmonton team. It had all of us community builders thinking outside our own perspectives. #2018CITE



Jen Malzer
@jen_malzer

Why I feel so honoured to speak today with my colleagues from city of Toronto and Vancouver #2018CITE on hackathons: 25% of Vancouver hospitalizations are traffic related, data tells a story of what works, & the partners and solutions can be fun, innovative and quickly dev'd



Tania Wegwitz
@TaniaWegwitz

What if our city design specs reflected that our cities ACTUALLY HAVE WINTER & should be just as fun & accessible throughout year?

@citylifesue giving one of my fave talks at #2018CITE on @CityofEdmonton Winter Design Guidelines. See here: [edmonton.ca/city_governmen ...](http://edmonton.ca/city_governmen...)
cc:@CIP_ICU



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Kate Whitfield
@whitfieldk8

Highlight for me: @ryan_martinson's presentation on equity and ITE. Impressive representation of the discussion through language and drawings



CITE @itecanada
Great conversation between @ITEhq leadership @mpsanderson1 and @belmore_bruce and CITE members at #2018CITE



Raphael
@DumasRaphael

Pretty interesting lightning talk of potential and key design considerations for automated parking systems (APS) for #AutonomousVehicles by Jordan Hart-Bishop @WSPCanada #2018CITE



Nadine King
@nadineaking

Goods movement presentations #2018CITE helping us understand how to deal with these vital movements @_wattconsulting @itecanada @cityofcalgary



Niki B
@nikiburk

Really interesting format & discussion at the 'Transportation Planning Conversation Circles.' Good mix of participation from both the municipal/gov't and consulting sides of the industry. #2018CITE

SALON 4
Transportation Planning: Conversation Circles

- Can't We All Get Along? Managing Projects from the Consultant and Government Perspective
- The evolution of the role of Transportation Engineers in development reviews

Did you miss the presentation? Check out Ryan's feature on page 21.



FOSTERING COMMUNITY & CONNECTIONS



Niki B
@nikiburk

My cheering section - @dzegg from @ISLengineering - showed up for my #2018CITE presentation this morning! Building relationships is a great part of conferences & knowing professionals from multiple consulting firms is something I've enjoyed since switching to the municipal side.



Ryan Vanderputten
@yycOnward

Canadian @LeadershipITE Alumni gathering at 2018 Canadian District meeting in Edmonton! #2018CITE @itecanada @ITEhq



J Kervin
@jmsker

Such a privilege to work with so many talented transportation professionals @itecanada @ITEhq over my career @JimGoughTrans @bradTTC



CITE @itecanada
Congratulations to @jmsker, recipient of the Robert Burton Distinguished Service Award, CITE's highest honour #2018CITE



irini akhnoukh
@IriiniAkhnoikh

Closing down the student mixer #2018CITE #saite



Thanks from the CITE Executive and Board to the LAC and all delegates, volunteers, and speakers for making the conference a huge success!

THANK YOU TO OUR SPONSORS & EXHIBITORS!

Need to follow up with an exhibitor you met in Edmonton? See the [detailed Exhibitor Listing](#) for more information about the companies that were showcased.

From the Welcome Reception to Student Mixer, Annual Banquet to networking breaks, the 2018 conference offered many opportunities to reconnect with past colleagues and build new relationships in the industry.

INDIVIDUAL AWARDS

H. ROBERT BURTON DISTINGUISHED SERVICE AWARD

Joanna Kervin

3rd Party Technical Director, Crosslinx Transit Solutions

This year's winner has distinguished herself through her involvement with ITE over the last 30 years. Joanna started her membership in ITE through the student chapter at the University of Waterloo. She held executive positions with the Toronto Section and the Canadian District, including International Director. She was the first woman to be elected to the Canadian District Executive and was the first woman President of CITE. She continues to work on ITE International Committees and is a Fellow of ITE. She was one of the leads for the CITE *Site Development Guidelines for Sustainable Transportation* project which become an ITE Recommended Practice.

She started her long career in transportation consulting and subsequently worked as Manager of Transportation Planning focusing on inter-regional transit at the City of Toronto in the Transportation Planning division. Until recently, Joanna was Director of Third Party Planning and Property with the Toronto Transit Commission (TTC) and led the team that implemented a \$3.2B extension of the TTC's Line 1 subway from Sheppard West Station to the new end of the line at Vaughan Metropolitan Centre. She is now 3rd Party Technical Director for Crosslinx Transit Solutions working to deliver the Eglinton Crosstown LRT project, where she is responsible for all third party matters across the project. Joanna enjoys sharing her experiences with students through guest lectures at University of Toronto, York University, and University of Waterloo.

Every year, CITE bestows its most prestigious award, the H. Robert Burton Distinguished Service Award, which is named after a man who dedicated much of his life to the transportation profession. Bob Burton spent his entire career practicing and promoting traffic engineering. A founder of the original Canadian Section in 1951, he was still attending CITE Toronto Section meetings right up to his death at the age of 101 years. CITE recognizes members who have shown these same qualities and demonstrated a notable career in the field and a record of service with CITE.



Presenting: Bruce Belmore & Michael Sanderson



Joanna with past recipients of the honour (left-right): Al Swanson, Dave Richardson, Alf Guebert & Dan Havercroft

OUTSTANDING VOLUNTARY CONTRIBUTION

Sean Nix, Toronto Section



RISING STAR AWARD

Irini Akhnoukh, Southern Alberta Section



TRANSPORTATION AWARDS 2018

GROUP AWARDS

SECTION ACTIVITY AWARD
Northern Alberta



SECTION ACTIVITY DELTA AWARD
Atlantic Provinces



STUDENT CHAPTER ACTIVITY AWARD
University of Manitoba



STUDENT CHAPTER ACTIVITY DELTA AWARD
McMaster University



RECOGNITION OF THE 2018 EDMONTON CONFERENCE LOCAL ARRANGEMENTS COMMITTEE

Left to Right: Carolyn Sherstone, Andrew Anderson, Daniel Vriend, Audra Jones, Catherine Oberg, Erin Toop, Dean Cooper, Jen Malzer, Ali Arshad

STUDENT AWARDS

DR. MICHEL VAN AERDE MEMORIAL SCHOLARSHIP

Seiran Heshami, University of Calgary



I received my BSc. degree in Civil Engineering and MSc degree in Executive management in Kurdistan, Iran, and worked as a transportation engineer, project manager, and entrepreneur for more than 10 years. During my professional career, I contributed to more than 30 transportation design and construction projects including roads and highways, intersections and interchanges, and bridges. I decided to deepen and widen my knowledge in transportation engineering by pursuing graduate studies in Canada. Thus, I started my education at the University of Calgary in 2014 and received my MSc degree in Transportation Engineering in 2015.

Currently, I am a PhD candidate in Civil Engineering at the University of Calgary and conducting research in the Transportation group under the supervision of Dr. Lina Kattan. My research objective is to enhance existing traffic control methods to reduce congestion effectively within urban freeway corridors by developing an integrated and proactive freeway control strategy while considering uncertainties in traffic demand and supply. In this research, I have developed a mathematical model that is formulated as a multi-objective optimization problem based on a cooperative algorithm. The optimality of traffic operations is obtained by minimizing the probability of traffic breakdown; and minimizing the total travel time, while considering the stochastic nature of the bottleneck capacity.

JOHN VARDON MEMORIAL SCHOLARSHIP

Abby Scaletta, University of Manitoba



I am starting the second year of my M.Sc. (CE) degree at the University of Manitoba with a thesis on multimodal traffic monitoring on the university campus. The primary objective is to develop data collection for monitoring pedestrians, cyclists, transit riders, and vehicle passengers in and out of campus. The secondary objective is to analyze the results to provide estimates of modal split for different time periods to assist the University of Manitoba in developing sustainable transportation strategies and policies. The data set will focus on six main campus entrances that accommodate different modes of transportation used by the 40,000 people who use the campus regularly.

After graduation, I hope to work in consulting with a focus on sustainable transportation, road safety, and/or equitable transportation systems. I want to improve as many lives as possible through healthy, safe, and accessible transportation options. My passion for transportation began when I joined our local Student Chapter in 2014 and has grown as I've become more involved. Thank you to the ITE community for this award and the opportunities to learn and network with other transportation professionals.

TRANSPORTATION AWARDS 2018

STUDENT AWARDS



CITE WSP UNDERGRADUATE SCHOLARSHIP Syed Imam, University of Toronto



My award submission, *Envision Opportunities in Multimodal Transportation Planning*, was intended to provide those entering the transportation industry an overview and highlight of the challenges and opportunities associated with growth and intensification, particularly discussing traffic congestion in urban areas. The submission uses the Greater Toronto and Hamilton Area to quantify the challenges ahead and describe potential solutions that optimize transportation infrastructure and go beyond traditional road widening initiatives.

Always fascinated with urban environments, it was a natural decision for me to pursue transportation studies at the University of Toronto. I was fortunate to enroll in several graduate-level courses on intelligent transportation systems, advanced traffic management, airport planning, and transit planning. I simultaneously pursued my own research on correlations between municipal rail transit and population density patterns over the past 50 years in the City of Toronto. My time at the University of Toronto has corroborated my predisposition for a life-long career in urban transportation engineering.

I am immensely grateful to CITE and WSP for the award and the opportunity to attend the CITE conference in Edmonton. Beginning mid-August, I will continue my transportation journey at the University of California, Berkeley in pursuit of a Master's Degree where my research work will involve using artificial intelligence algorithms to optimize route choices for emergency vehicles in congested urban areas. While the topic area itself is quite niche, even marginal savings in travel time for emergency vehicles could be the difference in life or death. As challenging and complex as the problems within the transportation industry are, the opportunities that exist to effect change is immense and provides a distinct sense of purpose in my career.



CITE WATT CONSULTING GROUP "TRANSPORTATION IN A SUSTAINABLE WORLD" STUDENT AWARD

Joseph Dominicis, McMaster University



My submission for the CITE WATT Consulting Group "Transportation in a Sustainable World" Student Award is titled *Sustainability Challenges of Implementing High Speed Rail in Canada*.

The paper first elaborates on the history of High Speed Rail (HSR) developments in Canada. This includes the CN TurboTrain, ViaFast and other proposals and studies along the Quebec City-Windsor and Calgary-Edmonton corridors. This gives the reader an understanding of the previous hurdles that had to be overcome when implementing HSR in Canada. The paper then explains the sustainability challenges associated with HSR in Canada and defines potential solutions to these challenges. Lessons learned from implementing HSR in other countries, such as France and Germany, were considered. The paper concludes that although HSR can bring many benefits, there are countless sustainability factors to consider when determining potential solutions.

I am honoured to receive this award. As a senior undergraduate civil engineering student at McMaster University, my passion for railways fuelled my desire to write this paper. Now graduated, I look forward to continuing my studies in transportation engineering at the University of Toronto's M.Eng program in September 2018.

STUDENT AWARDS



STUDENT PAPER COMPETITION AWARD

Ahmed Osama Amer, University of British Columbia

Ahmed Osama has recently received his PhD in Transportation Engineering from the University of British Columbia (UBC). He had been a research assistant at the Bureau of Intelligent Transportation Systems and Freight Security at UBC for the last four years.

He had participated in several traffic safety projects for cities within Canada (Vancouver, Edmonton, and Surrey) and abroad (Doha, Qatar and Adelaide, Australia) and co-authored more than 15 publications. His work gained him several awards from UBC, Canadian Transportation Research Forum, and Transport Canada.

Prior to studies at UBC, Ahmed Osama completed his MSc in public transportation at Ain Shams University while pursuing practical experience as a transportation engineer in the world-renowned Dar Al-Handasah consultants.

His winning paper, titled *Macroscopic Evaluation of Active Transportation Safety: City of Vancouver as a Case Study*, documented the research performed within the University of British Columbia to investigate the factors that impact active commuters' safety. He extracted a large GIS dataset for the City of Vancouver to develop macro-level crash models for pedestrian crashes as well as for cyclist crashes.



STUDENT PRESENTATION COMPETITION AWARD

Anita Kyle, University of British Columbia – Okanagan

I am working towards my Bachelor's Degree in Civil Engineering from the University of British Columbia's Okanagan Campus in Kelowna, B.C. My project with my team was to develop a conceptual design for a turbo roundabout at the intersection of Harvey Avenue and Spall Road in Kelowna. This intersection provided many challenges as it is the main route through Kelowna as Harvey Avenue is Highway 97. The large traffic volume along with the proximity of local businesses made it difficult to design a roundabout large enough to handle the appropriate traffic volume while accounting for the growth of Kelowna and its associated higher traffic volume. My team and I worked with the given traffic count data from the City of Kelowna and modeled both the current four-lane signalized intersection as well as a 3-lane roundabout in SIDRA to fully understand how the intersection was operating in its current state and determined which portions of the intersection were the most congested and in the most need of the redesign we were proposing. We used current industry design standards for turbo roundabouts and developed a conceptual 3 lane design which we then used AutoTURN to ensure that our design would meet the turning requirements for the vehicles frequenting the intersection. My teams' end result was a 3-lane turbo roundabout conceptual design that could be taken forward towards more detailed design with more time and resources dedicated.



TRANSPORTATION AWARDS 2018



CHAMPIONS: UNIVERSITY OF MANITOBA
Giuseppe Grande, Karalee Klassen Townsend,
Michael Olfert & Abby Scaletta (alternate)

University of British Columbia



UBC Okanagan



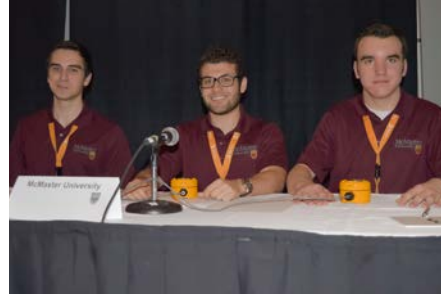
University of Alberta



University of Calgary



McMaster University



University of Toronto



Ryerson University



Québec-Montreal



University of New Brunswick



SAVE THE DATE



The National Capital Section of CITE is thrilled to welcome you to attend the 2019 CITE Annual Conference to be held in Ottawa, Ontario from June 2 to June 5! The National Capital Region of Ottawa, Ontario and Gatineau, Quebec is home to over a million

people. With a mix of urban centres, natural areas, pathways, and unique neighbourhoods, Ottawa has all the amenities of a large city and the welcoming feel of a small town.

Our program theme – **BOLD Thinking and Transformative Solutions: Today! Not Tomorrow** – encapsulates the inter-connectivity of various modes of travel, reinventing design toolboxes to adapt to these modes, and the desire for more highly connected suburbs, internally, and to the urban core. These challenges are being faced by municipalities across Canada.

Our exciting technical program is matched by our technical tours of the city's cycling facilities, the Confederation Line LRT, a Multi-Modal Destination Challenge, TD Stadium and Accessibility and Travel Demand Management approaches, and the City of Ottawa Traffic Operations Centre, just to name a few. The city also offers a range of social activities, from Parliament and museum tours to sporting events and visits to local breweries.

The conference will be hosted at The Westin Hotel in downtown Ottawa, located a quick walk from Parliament Hill, the Byward Market, and the Rideau Canal, a UNESCO World Heritage site.

Ottawa 2019 is not to be missed! The Local Arrangements Committee eagerly waits to welcome you to the nation's capital in June 2019.

Bassam Hamwi
Co-Chairs, Ottawa 2019 Local Arrangements Committee

Andrew Harte



and put yourself in the picture!



 **Kate Whitfield**
@whitfieldk8

Starting Edmonton #2018CITE by promoting Ottawa 2019 for @itecanada conference with @Eco_Counter @altaplanning



 **Alex Nolet**
@alex_nolet

Safety isn't all we do. TNS can also pretend having fun as well @itecanada #2018CITE



student leadership summit

CANADIAN DISTRICT'S FIRST



BY **ABBY SCALETTA**
UNIVERSITY OF MANITOBA STUDENT CHAPTER PRESIDENT

On Sunday, June 3, the University of Alberta and University of Manitoba chapters co-hosted the first Canadian ITE District Student Leadership Summit (SLS) in Edmonton, Alberta. The event was a huge success with over 30 students learning and participating. Attendees were presented with a great opportunity to develop their professional skills, leadership qualities, and connect with transportation professionals.

The SLS consisted of a series of presentations, networking sessions, and a workshop which were all focused on areas of leadership, teamwork, motivation, and other skills essential for young professionals preparing to build their professional careers. The session presentations included self-branding; motivation and self-discipline; time and energy management; leadership insights from ITE International President, Michael Sanderson; career opportunities in transportation; and ethics in engineering. The summit ran for a day and a half and included three networking opportunities including a welcome reception on Saturday, June 2, a chance to meet the fellow attendees with networking activities at breaks on Sunday, and most importantly, a roundtable session where students connected with five ITE/CITE Executive members. The roundtable session consisted of five groups of students

with a rotating ITE/CITE Executive to provide students with an opportunity to gain knowledge on working in the field and receive insight on employable skills when entering the workforce. Many of the students praised the opportunity to not only meet with Bruce Belmore, Gene Chartier, Julia Salvini, Michael Sanderson, and Edward Soldo, but to also learn from their years of experience in the workforce and within the ITE community. Lastly, the event concluded with an interactive workshop on team building and communication.

The summit was extremely successful and productive for those who attended. Students gained new skill sets in communication, leadership, teamwork, and networking and were able to show those abilities to professional executives in the ITE community. It was also a chance to interact with students from across Canada and to strengthen those relationships during the following CITE Conference. CITE hopes to have students organize another event in years to come so keep an eye on your inbox! The organizing committee would like to thank all the attendees for their participation; the sponsors for their financial support; the speakers for volunteering their time, insight, and knowledge; and Gene Chartier for approaching the Chapters with the idea and guidance throughout the planning process.

PARTICIPATING UNIVERSITIES

- University of Alberta
- University of Calgary
- Lakehead University
- University of Manitoba
- McMaster University
- University of New Brunswick
- University of Toronto

ORGANIZING COMMITTEE

Thanks to the organizing committee from the University of Alberta and University of Manitoba who made this event possible!

- Suliman Gargoum (co-chair)
- Abby Scaletta (co-chair)
- Gene Chartier (advisor)
- Giuseppe Grande
- Lloyd Karsten
- Karalee Klassen Townsend
- Auja Ominski

student leadership summit

SESSIONS & PRESENTATIONS

- **Building Brand "You"** – Kurian Tharakan, TEC Edmonton
- **Motivation and Self-Discipline** – Mahdi Qasqas, Qasqas & Associates
- **How to Manage Your Time and Energy** – Marvin Washington, University of Alberta School of Business
- **Insights on Leadership** – Michael Sanderson, Sanderson Stewart
- **Careers in Transportation** – Gene Chartier, Paradigm Transportation Solutions Ltd.
- **Law and Ethics in Engineering** – Bruce Belmore, WSP
- **Team Building Workshop** – Barbara May, Stumbling Blocks
- **Roundtable Session with CITE/ITE Executives**
 - › Michael Sanderson, ITE President
 - › Bruce Belmore, ITE Vice President
 - › Gene Chartier, Canadian District Director
 - › Julia Salvini, CITE Vice President
 - › Edward Soldo, CITE President



Michael Sanderson shares his "Insights on Leadership"



Marvin Washington offers guidance on "Managing your Time and Energy"



Over 30 post-secondary students from across the country attended the first Canadian Student Leadership Summit, held in Edmonton in June 2018.

student leadership summit



Participants engrossed in a round of networking bingo



Mahdi Qasqas on "Motivation and Self-Discipline"



Barbara May's "Stumbling Blocks" team building activity



Barbara May conducting her Team Building and Communication workshop



Bruce Belmore on "Ethics in Engineering"

In this feature, fellow CITE members share favourite transportation tidbits from across Canada. For this special edition, participants from the first Canadian District Student Leadership Summit (SLS) share their...

...highlights from the Student Leadership Summit



Michael Olfert, B.Sc., EIT

M.Sc. Candidate, Civil Engineering, University of Manitoba | Winnipeg, MB

The single greatest benefit I received from attending the student leadership summit was exposure to perspectives on leadership from a variety of fields. A notable example of this came from Marvin Washington, who has a background in business and presented on the issue of time management. His perspective, which involved answering basic questions such as 'What tasks make time go by fast?' and 'What kind of work do I want to spend my time doing?', helped me clarify what my goals are and how I need to manage my time to achieve them. This alternative perspective not only gave me insight into how other fields view problems differently than engineers typically do, but provided me with tools to manage my studies, career, and personal goals more effectively.

Paulina Chiacchia

Intern, Hatch | Undergraduate, Civil Engineering, University of Calgary | Calgary, AB

I was very excited to attend the first Canadian ITE Student Leadership Summit. Each speaker and workshop provided great insight into what opportunities and challenges we as young professionals may expect in our future careers. My favorite part of the event was meeting and connecting with students from across Canada. As an undergrad student, making connections with Masters and PhD students is extremely important but can be challenging within a school environment. SLS was the perfect environment to foster conversations about research opportunities, ways to further one's education, and ultimately one's career in transportation. I so look forward to seeing this event grow and help usher in the next generation of CITE members!



Jeff Pascua, B.Eng

M.Sc Candidate, Civil Engineering, Lakehead University | Thunder Bay, ON

What was most impressive about the entire summit was the fact that it was planned entirely by students, for students. The SLS organizers did amazing work in setting up the first-ever SLS for CITE; hats off to the planning committee! My only concern is how future summits will size up against such a successful event!

If you're a potential or current student interested in a career within transportation, the CITE Student Leadership Summit is an event that you should seriously consider attending. Very few events offer students the opportunity to directly network with other students and current professionals in such a welcoming and entertaining environment. Engaging presentations, thought-provoking discussions, and exciting activities are just some of the things that interested individuals can expect.

EQUITY & MOBILITY

BY RYAN MARTINSON
JULY 2018

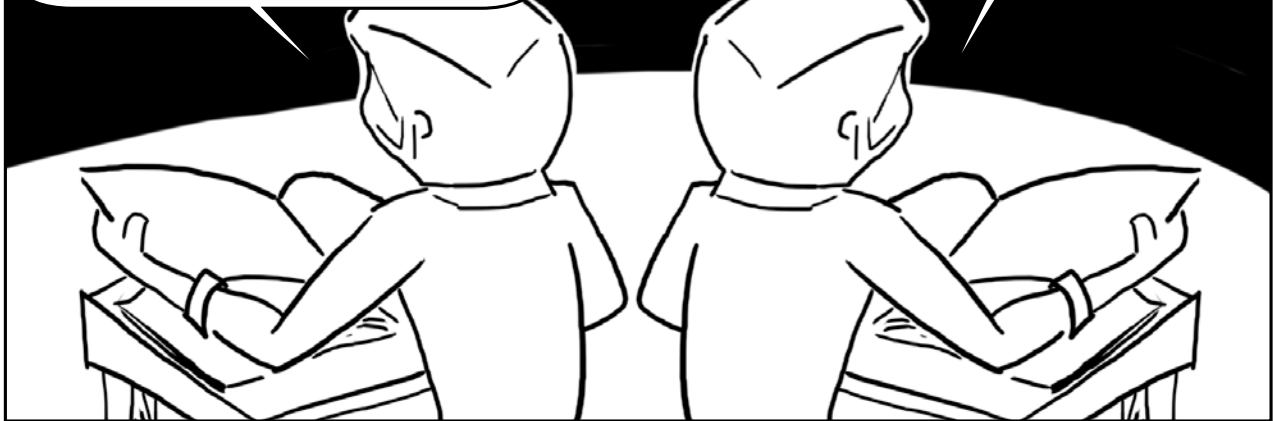
THE WORD "EQUITY" SOUNDS A LOT LIKE "EQUALITY"



... BUT THERE MUST BE A DIFFERENCE... AND WHY SHOULD WE CARE ABOUT IT?

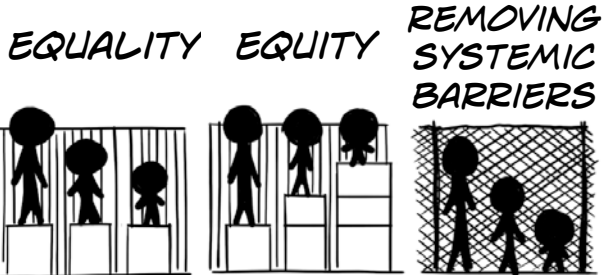
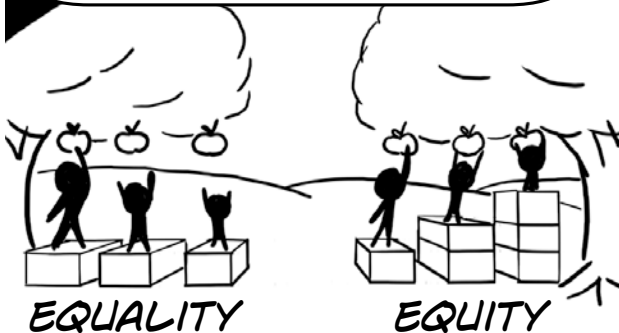
ACCORDING TO THE OXFORD ENGLISH DICTIONARY, **EQUALITY** IS DEFINED AS: "THE STATE OF BEING EQUAL, ESPECIALLY IN STATUS, RIGHTS, OR OPPORTUNITIES"...

WHEREAS **EQUITY** IS DEFINED AS: "THE QUALITY OF BEING FAIR AND IMPARTIAL" WHICH IS MORE THAN JUST HAVING THE 'SAME'.



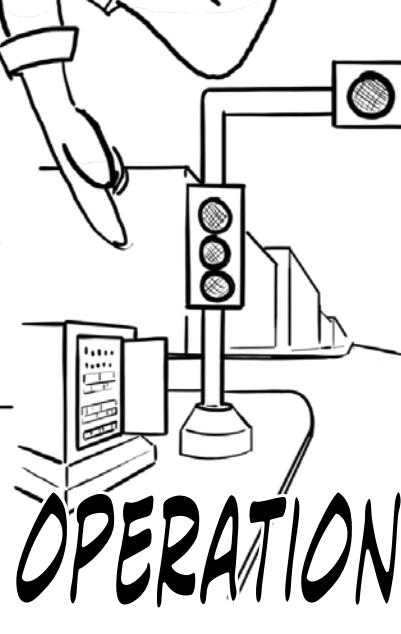
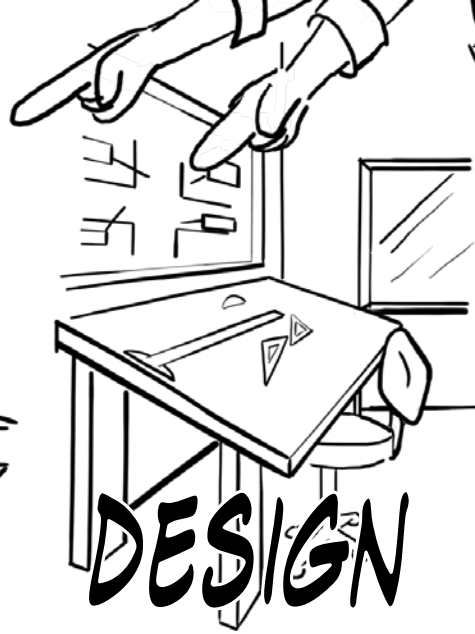
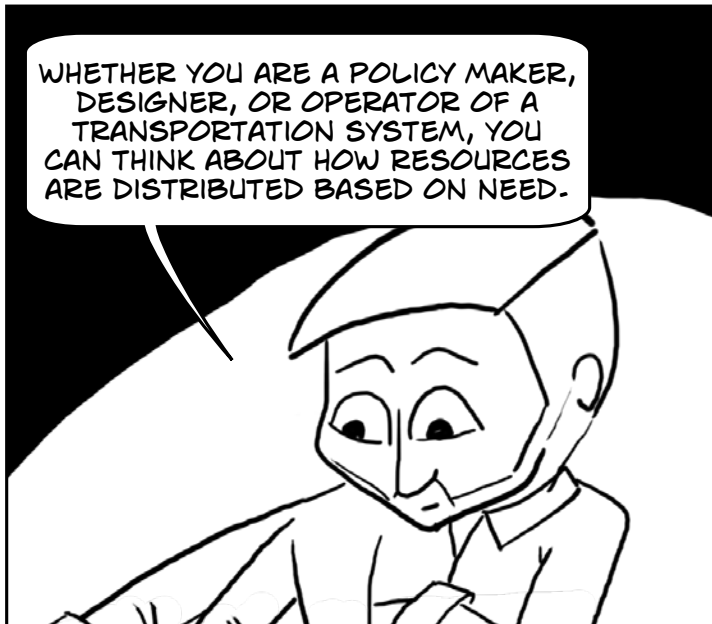
EQUITY IS ABOUT THE FAIR AND IMPARTIAL ALLOCATION OF RESOURCES BASED ON THE **NEEDS** OF THE POPULATION

IT'S IMPORTANT TO REMEMBER THAT THERE ARE DEEP ROOTS TO INEQUITY THAT WE FACE IN OUR SOCIETY.



NOT JUST THE EQUAL SHARING OF RESOURCES ACROSS THE POPULATION

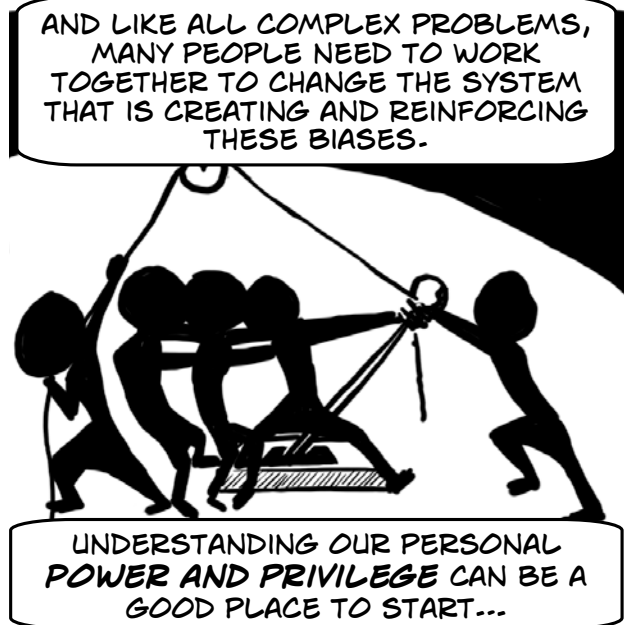
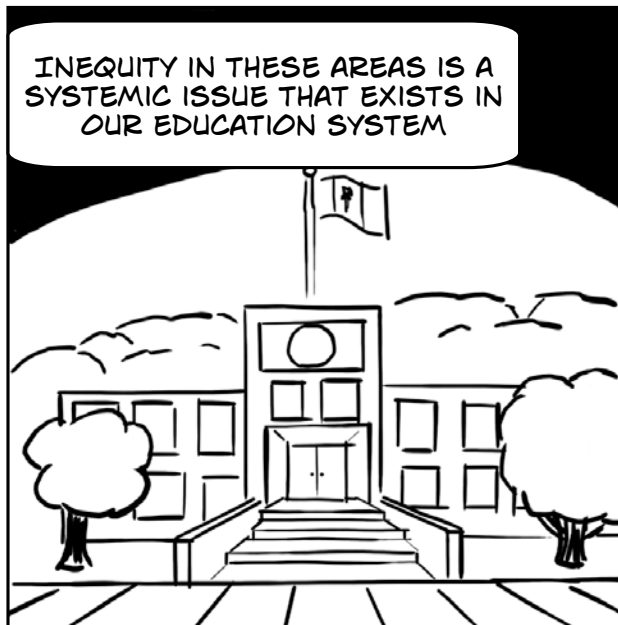
AS SUCH, **REMOVING SYSTEMIC BARRIERS** IS ALSO A MEANS OF CHANGING THE CURRENT STATUS QUO.



EQUITY IS IMPORTANT WHEN CONSIDERING THE **ALLOCATION AND DESIGN** OF INFRASTRUCTURE...

WHICH ALSO INCLUDES THE **DISTRIBUTION OF SERVICES AND AMENITIES** AMONGST GEOGRAPHIES AND DEMOGRAPHICS OF AN AREA.



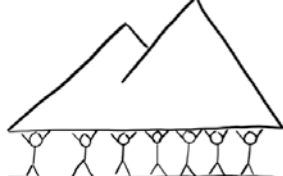


TWO KINDS OF POWER THAT ARE AT PLAY WHEN SOCIETIES ARE GOVERNING THEMSELVES ARE POWER-OVER AND POWER-WITH

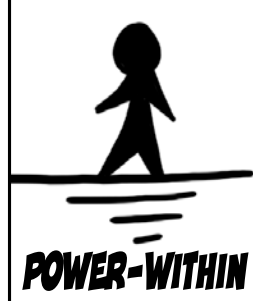
POWER-OVER **POWER-WITH**



DESCRIPTION:
COMPETITIVE,
HIERARCHICAL,
SEPARATION-BASED
VALUES.
CONTROL THROUGH
DOMINATION OR
FORCE.



DESCRIPTION:
CONNECTED,
COOPERATIVE,
CONSENSUS
WAY OF LIFE.
POWER EXERCISED
COOPERATIVELY AMONG
EQUALS.



POWER-WITHIN

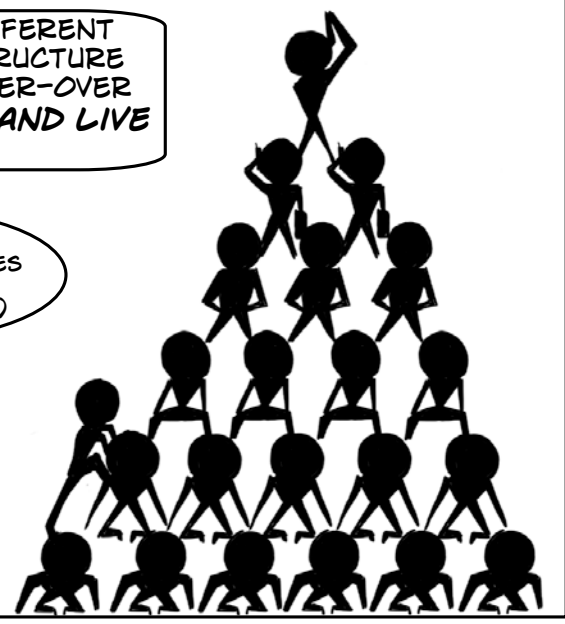
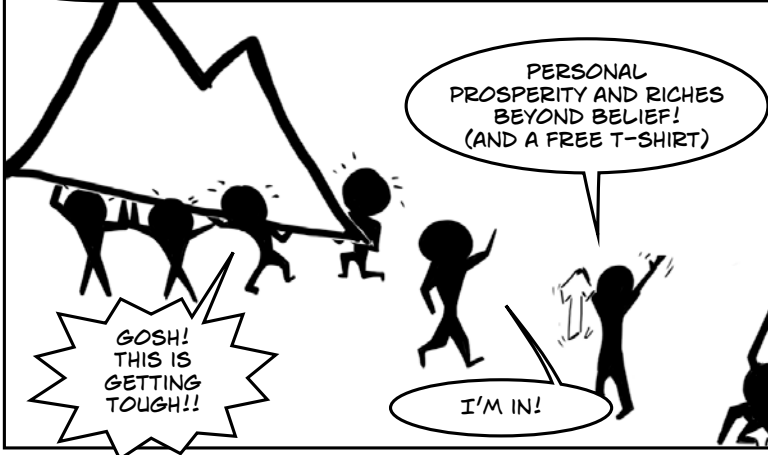


AUTHORITY

THERE ARE TWO OTHER KINDS OF POWER THAT ARE SUPER NEAT TO THINK ABOUT, BUT FOR NOW WE'LL LOOK AT THOSE FIRST TWO SINCE THEY SPEAK MORE TO THE SYSTEMIC POWER STRUGGLES THAT SHOW UP IN ISSUES OF EQUITY.



SO WHEN TWO SOCIETIES MEET UNDER DIFFERENT POWER STRUCTURES, THE POWER-WITH STRUCTURE CAN EASILY BE OVERWHELMED BY THE POWER-OVER STRUCTURE AND BE FORCED TO ABSORB AND LIVE BY COMPETITIVE VALUES.



TROUBLE IS, WHEN SOCIETIES OPERATE IN THE POWER-OVER DYNAMIC, THERE IS A CHANCE THIS POWER WILL PROVIDE AN UNFAIR ADVANTAGE FOR SPECIFIC GROUPS TO ACCESS RESOURCES OR SERVICES.



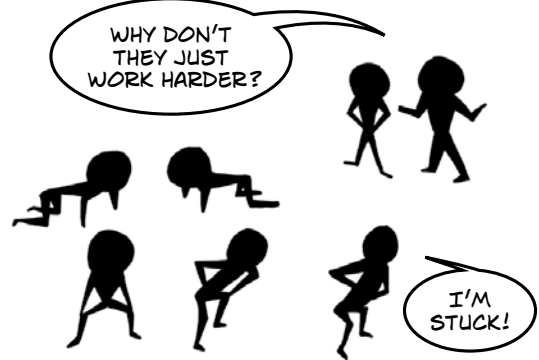
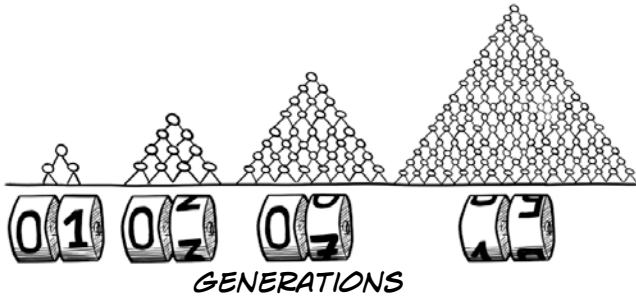
WHICH LEAVES LESS FOR OTHERS WHO MAY BE IN HIGHER NEED. ESPECIALLY, THOSE WHO DON'T HAVE THE CAPACITY TO ADVOCATE IN THIS SYSTEM.



Note: Page 24 and 25 are heavily influenced by work published in a great book by Anne Bishop called *Becoming an Ally*, 3rd Edition: *Breaking the Cycle of Oppression in People* (2015).

TROUBLE IS, THIS POWER STRUCTURE HAS BEEN IN PLAY FOR MANY GENERATIONS AND HAS RESULTED IN **PERMANENT, IRREVERSIBLE, STRUCTURAL ADVANTAGES** TO CERTAIN GROUPS IN OUR SOCIETY.

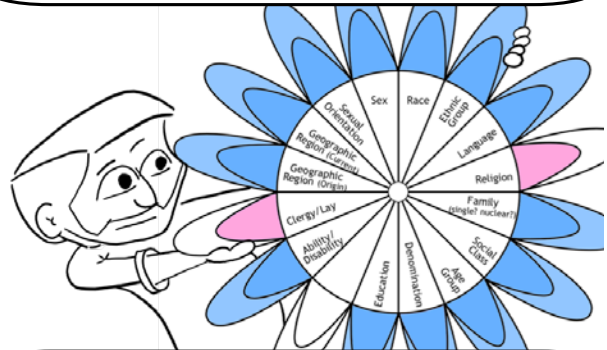
AS SUCH, WE SHOULD TAKE THE TIME TO ACKNOWLEDGE OUR PRIVILEGE AND HOW THAT CONTRIBUTED TO WHERE WE ARE IN SOCIETY AND THE ADVANTAGE THAT WE MAY HAVE BENEFITTED FROM IT.



WHEN YOU FIRST START THINKING ABOUT YOUR OWN PRIVILEGE, IT CAN FEEL AWKWARD...

... AT LEAST IT DID FOR ME!

BUT TOOLS LIKE THE **POWER FLOWER** HELP YOU IDENTIFY WHERE YOUR BACKGROUND ALIGNS WITH THE GROUP IN POWER AND THE ADVANTAGE THAT YOU MAY HAVE RECEIVED.



WHEN YOU START TO UNDERSTAND YOUR PRIVILEGE IN SOCIETY, THIS MAY LEAVE YOU WITH A STRONG FEELING OF GUILT...

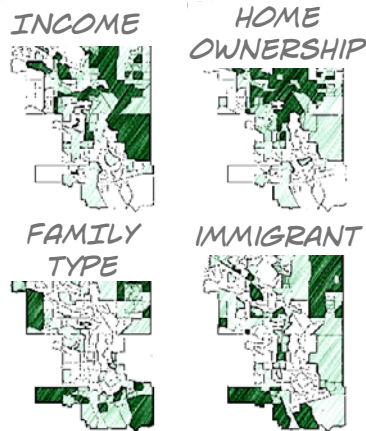
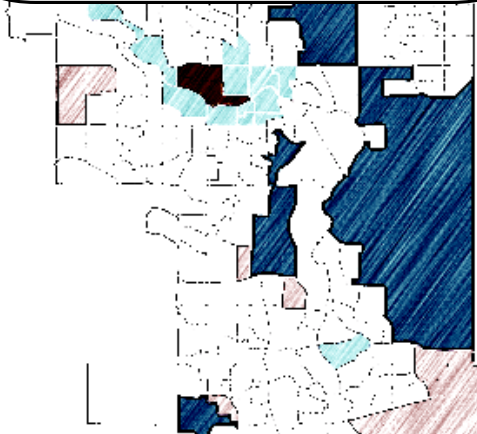
BUT REMEMBER, **GUILT** IS SHAME OVER SOME ACTION THAT WAS A CHOICE, SOMETHING INTENTIONAL, OR IN OUR CONTROL.

ALTERNATIVELY, WE CAN THINK OF THIS AS A **RESPONSIBILITY** THAT WE HAVE. WHERE RESPONSIBILITY REFERS TO HOLDING OURSELVES ACCOUNTABLE FOR A **WRONG** THAT WE INHERITED FROM THE GENERATIONS WHO WENT BEFORE US.

IN MOST CASES THE ADVANTAGE OUR PREVIOUS GENERATIONS RECEIVED WAS NOT **OUR PERSONAL INTENTION**.



MUCH OF THE WORK THAT IS DONE ON EQUITY IN THE TRANSPORTATION SYSTEM IS AROUND THE ACCESS TO A NETWORK (GEOGRAPHIC EQUITY)

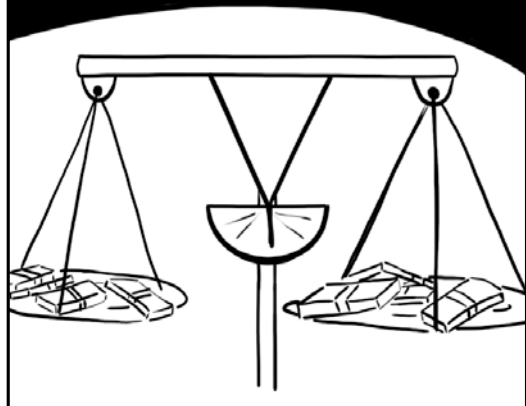


OR, THE CHARACTERISTICS OF THE POPULATION THAT THE FACILITIES OR PROGRAMS SERVE (SOCIODEMOGRAPHIC EQUITY)

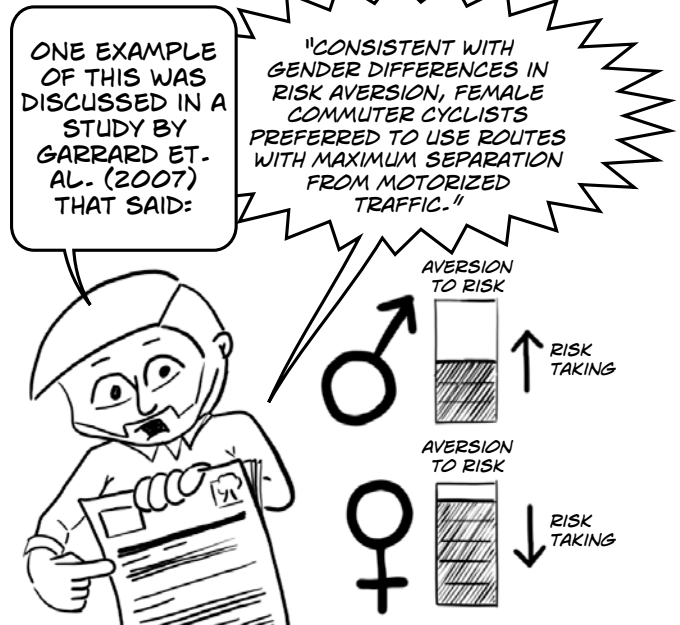
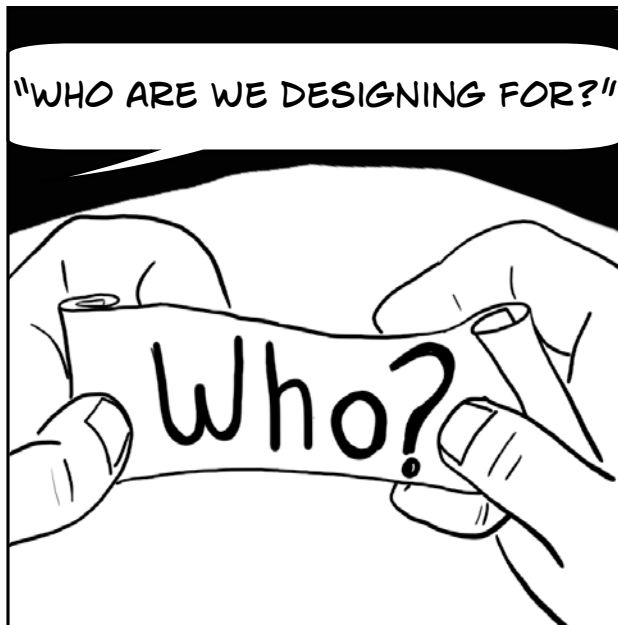
IN PARTICULAR, THIS COULD BE LOOKING AT HOW NETWORKS ARE PLANNED AND PRIORITIZED WITH DUE CONSIDERATION OF INCOME, ETHNICITY, ...



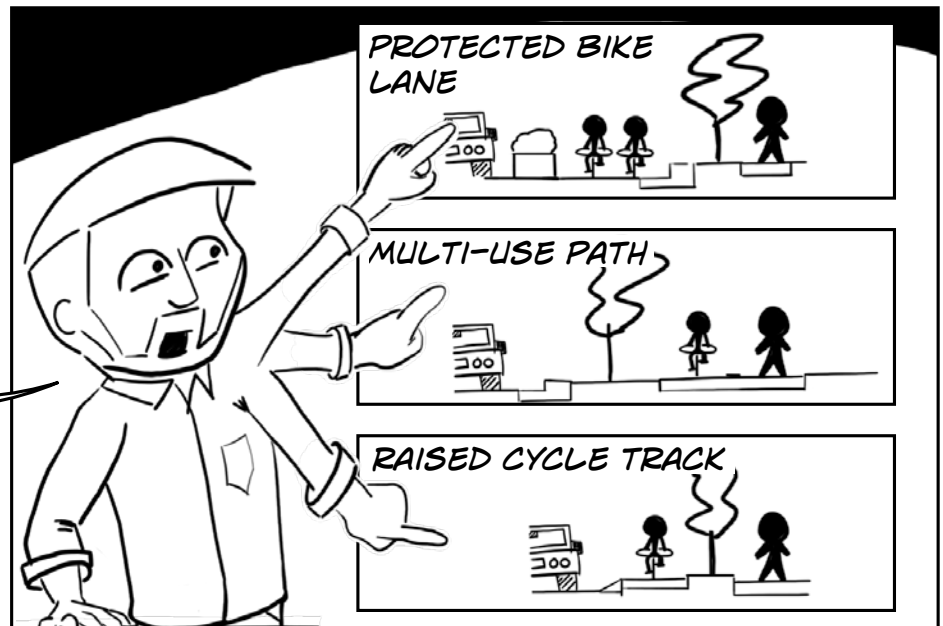
THIS TYPE OF ANALYSIS AND SUBSEQUENT POLICY WORK CAN THEN FOCUS ON THE FUNDING AND ALLOCATION OF THE INFRASTRUCTURE

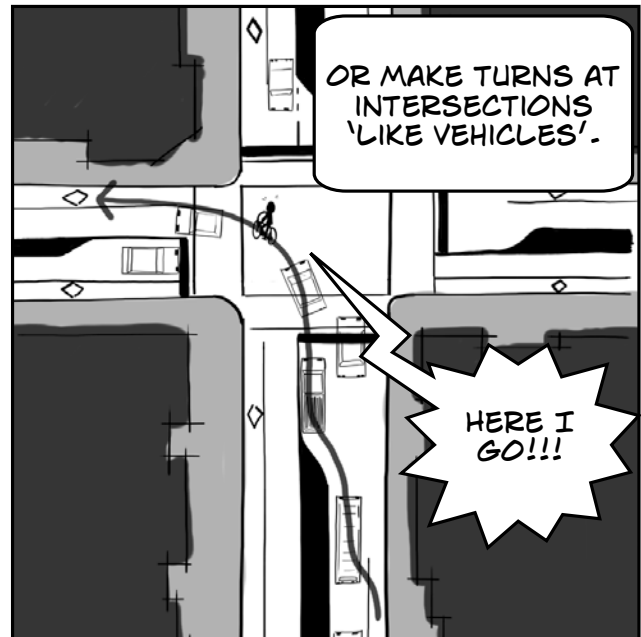
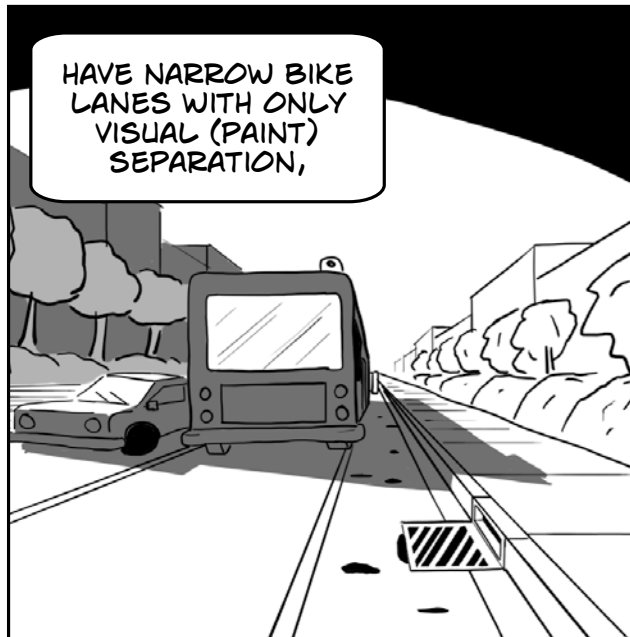
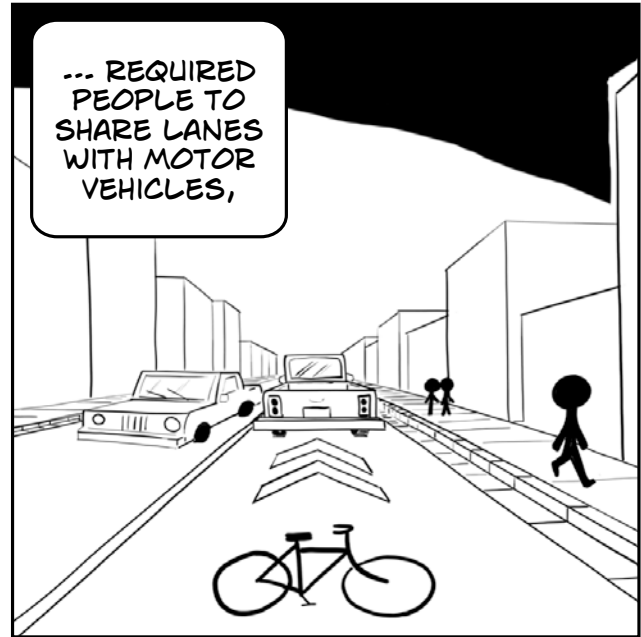


WHICH IS REALLY IMPORTANT TO ENSURE THE SYSTEM IS FAIR, IMPARTIAL, AND PROVIDING SERVICES IN THE AREAS THAT MAY NEED IT THE MOST.



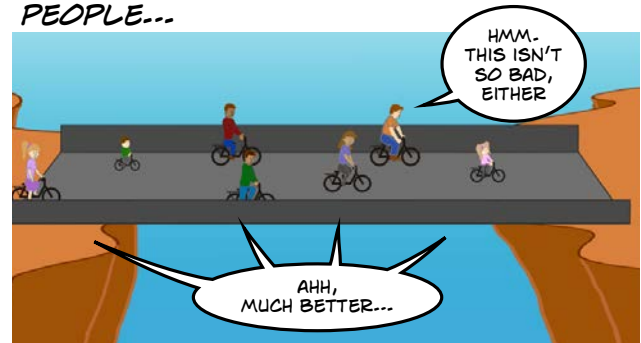
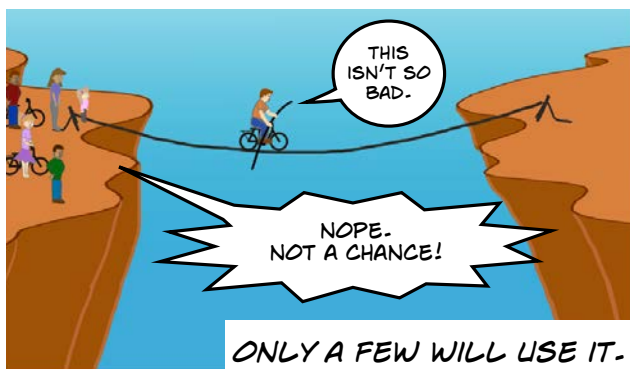
IT WENT ON TO SAY THAT BICYCLE INFRASTRUCTURE "THAT PROVIDES A HIGH DEGREE OF SEPARATION FROM MOTOR TRAFFIC IS LIKELY TO BE IMPORTANT FOR INCREASING TRANSPORTATION CYCLING AMONGST UNDER-REPRESENTED POPULATION GROUPS SUCH AS WOMEN"





THESE DESIGNS WERE ONLY DEEMED SUITABLE FOR A SMALL PORTION OF OUR SOCIETY. AND, WHEN THE INFRASTRUCTURE IS ONLY COMFORTABLE FOR A SMALL GROUP OF PEOPLE...

BUT, WITH INFRASTRUCTURE THAT IS COMFORTABLE AND SAFE FOR MOST PEOPLE...



FEWER PEOPLE ARE EXCLUDED FROM USING IT.

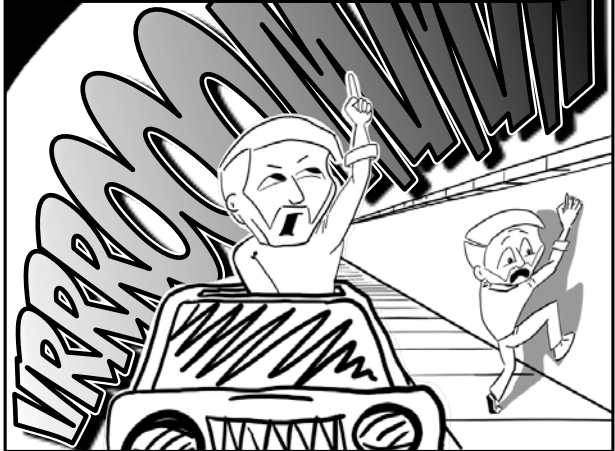
SO FAR WE'VE COVERED HOW DESIGN TREATMENTS CAN EFFECT THE INCLUSIVITY OF A PLACE. IT'S IMPORTANT TO ALSO CONSIDER HOW MOBILITY 'TOOLS' CONTRIBUTE TO EQUITY AND INCLUSIVITY.

TOOLS HAVE BEEN USED BY HUMANS TO **EXTEND AND AMPLIFY OUR SENSES AND CAPABILITIES** FOR AS LONG AS WE'VE BEEN CREATING THEM. FOR EXAMPLE, BOOKS TO EXTEND OUR MEMORIES, PHONES TO EXTEND OUR VOICES, GLASSES TO ENHANCE OUR VISION, OR BICYCLES AND CARS AS EXTENSIONS OF OUR LEGS.



AND IN THAT WAY, WE WOULD THINK IT'S RATHER STRANGE TO FEEL THAT THE TOOL WE USE, OR HAVE AVAILABLE TO US, MAKES US BETTER THAN SOMEONE ELSE.

BUT THIS BIAS TOWARDS AUTOMATION, POWER, AND DISTANCE HAS PERMEATED INTO OUR DESIGN GUIDANCE, DECISION MAKING, AND DISCOURSE.



THIS BIAS RESULTED IN DESIGN GUIDANCE THAT WOULD CONSIDER BUSES AND BIKES SHARING A LANE TO BE APPROPRIATE...

FORTUNATELY, NEW DESIGN GUIDANCE IS BEING PUBLISHED, THAT IS BACKED BY RESEARCH, SUGGESTS A HUMAN-SCALED APPROACH TO MOBILITY...



... AND COUNT AS A LEGITIMATE PART OF THE BICYCLE NETWORK IN A CITY.

AND THE INFRASTRUCTURE THAT YOU SHOULD BUILD IS CLEARLY MEANT FOR **ALL AGES AND ABILITIES.**

ALSO, THE TOOLS THAT WE CHOOSE TO USE OR HAVE AVAILABLE TO US SHOULD NOT MEAN WE CAN'T PARTICIPATE FULLY IN OUR DAY TO DAY REQUIREMENTS OR DESIRES.

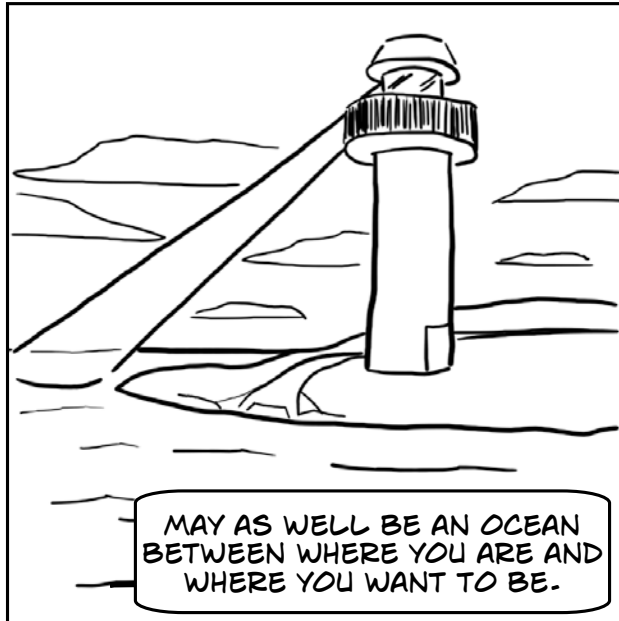
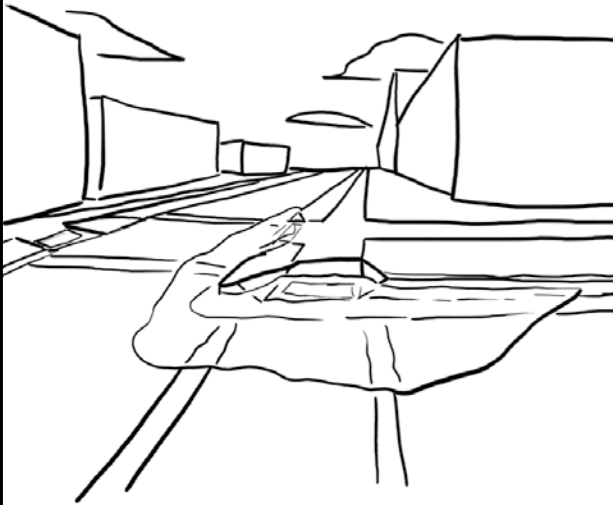


FOR EXAMPLE, A SMALL LIP AT AN ENTRANCE

...MAY AS WELL BE A WALL TO A PERSON USING A WHEELCHAIR.

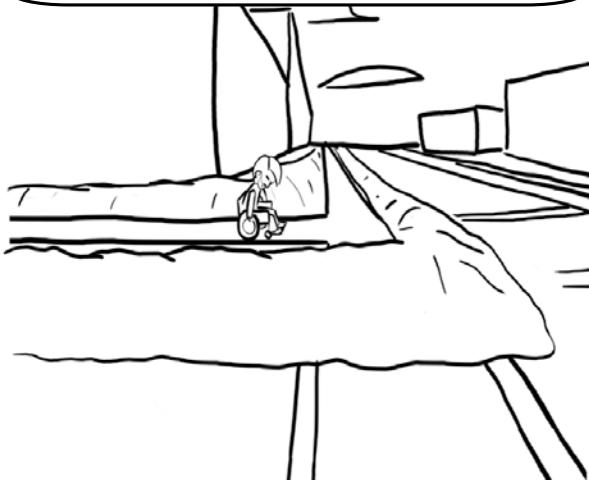


OR A FLOODED CATCH BASIN BLOCKING A WHEELCHAIR RAMP,



MAY AS WELL BE AN OCEAN BETWEEN WHERE YOU ARE AND WHERE YOU WANT TO BE.

OR A POORLY MANAGED SNOW DRIFT AT A STREET CROSSING OR SLIPPERY SIDEWALKS IN YOUR NEIGHBOURHOOD,

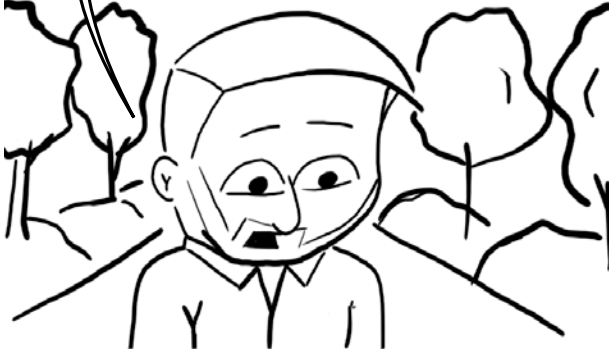


MAY AS WELL BE THE EDGE OF THE CAGE YOU LIVE WITHIN UNTIL THE SEASONS CHANGE.

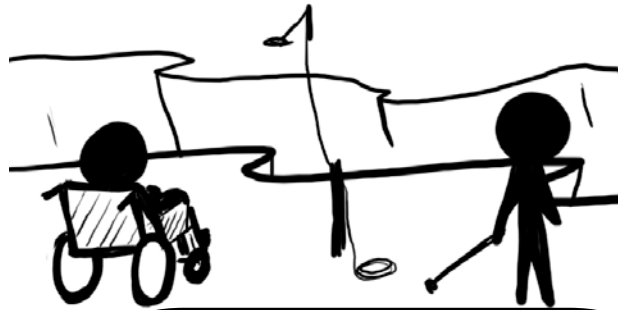


THE TOOLS WE USE TO GET AROUND SHOULD NOT MEAN WE MUST SETTLE FOR A DIFFERENT STANDARD OF LIVING OR LEVEL OF HUMAN DIGNITY.

TO SERVE AS A JUMPING OFF POINT FOR FUTURE CHANGE, HERE ARE SOME OF THE WAYS THAT AN INDIVIDUAL, AGENCY, PROFESSION, OR PUBLIC CAN THINK AND ACT ON THE IDEA OF EQUITY IN OUR TRANSPORTATION SYSTEM:



INDIVIDUAL: EMPATHY EXERCISES (SPEND A DAY IN A WHEELCHAIR, EXPERIENCE SIGHT LOSS OR HEARING LOSS THROUGH SENSITIVITY TRAINING)

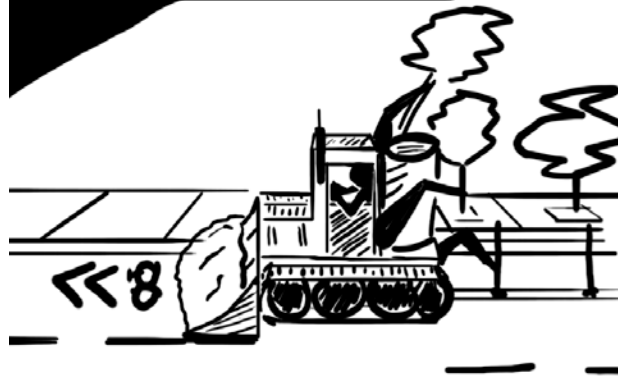


BUT REMEMBER, THIS DOESN'T MAKE YOU AN EXPERT, IT MERELY OPENS YOUR EYES TO NEW ISSUES TO SET YOUR SIGHTS ON.



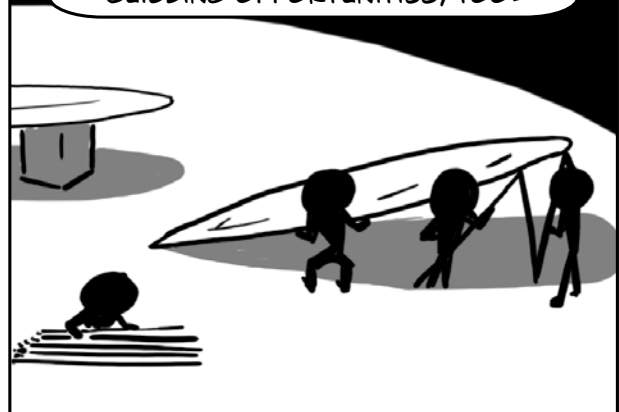
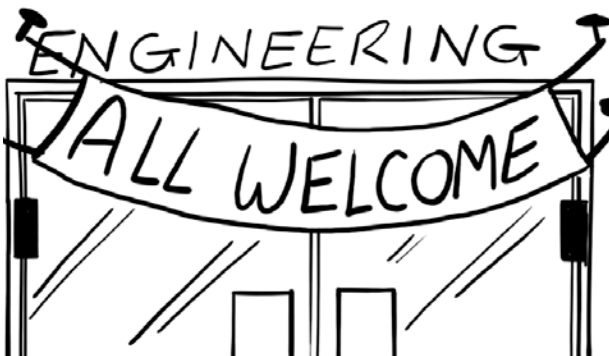
INDIVIDUAL: UNDERSTAND AND IMPLEMENT BEST PRACTICE DESIGN THAT IS BASED ON CURRENT RESEARCH AND DESIGN THINKING.

PROFESSION: CONTINUE TO ADOPT DESIGN PRACTICES THAT HAVE BEEN PROVEN TO INCREASE THE COMFORT AND SAFETY OF THE DESIGN USER.



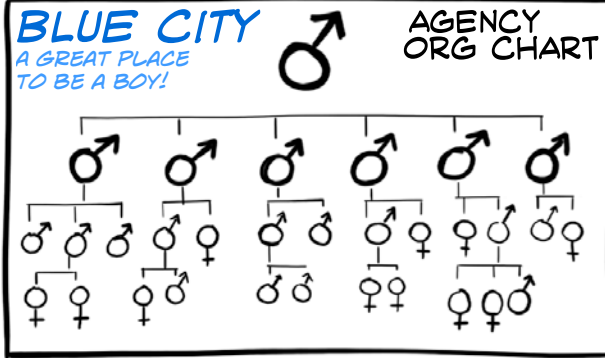
PROFESSION: TAKE ACTION TO REMOVE SYSTEMIC BARRIERS THAT MAY EXIST WHICH LIMIT CERTAIN GROUPS OF PEOPLE FROM PARTICIPATING IN THE PROFESSION.

AGENCY: PLAN AND PRIORITIZE INFRASTRUCTURE AND POLICIES THAT ARE SENSITIVE TO DISPARITIES BETWEEN VARIOUS POPULATIONS AND THE NEEDS THAT MAY DIFFER ACROSS THE AREA. THINK ABOUT CAPACITY-BUILDING OPPORTUNITIES, TOO.



AGENCY: DESIGN AND CONSTRUCT INFRASTRUCTURE THAT WILL BE COMFORTABLE AND SAFE FOR THE ENTIRE POPULATION

AGENCY: BE COGNIZANT OF THE DIVERSITY WITHIN THE AGENCY AND DISPARITIES THAT MAY EXIST IN THE RANKS OF THE DESIGNERS AND THE DECISION-MAKERS



PUBLIC: DEMAND WE HAVE EQUITY AS ONE OF THE PILLARS FOR HOW WE PLAN, PRIORITIZE, DESIGN, AND BUILD THE PLACES WE LIVE, WORK, PLAY, LEARN, AND TRAVEL THROUGH.

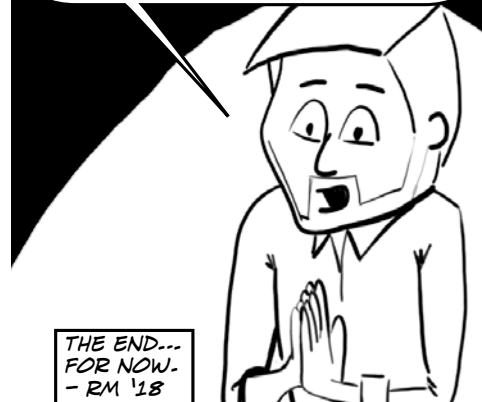


PUBLIC: DEMAND WE HAVE A HUMAN-CENTERED DESIGN APPROACH

PUBLIC: DEMAND TO BE INVOLVED IN THE PLANNING AND DESIGN PROCESS. EVERY VOICE IS IMPORTANT TO BE HEARD AND CONSIDERED BY THE PEOPLE MAKING DECISIONS THAT AFFECT OUR DAILY LIVES.



SO, WHAT DO YOU SAY? LET'S TAKE SOME OF THESE IDEAS FOR CHANGE AND MAKE A MORE INCLUSIVE AND WELCOMING SOCIETY TOGETHER!



THE END... FOR NOW. - RM '18



Ryan Martinson is a transportation consultant who loves to look at big ideas/issues and make them relevant to the work he does in urban mobility and street design. He is Chair of the ITE Sustainability Standing Committee and involved with the ITE Complete Streets Council. Get to know him [here](#).

CITE has a strong partnership with the Transportation Association of Canada (TAC). One of our key contributions to TAC's technical projects is participation on a number of TAC councils and committees through CITE appointees. In this TAC Tidbits, our appointees share updates about their committees from the Spring 2018 TAC meetings in Ottawa, Ontario.

Chief Engineers Council



EDWARD SOLDO

CITE President & Director of Roads and Transportation, City of London

The Chief Engineers Council (CEC) spring meetings were held over two days in Ottawa in April. The committee had a number of presentations on the first day related to the following:

Use of Digital Seal Technology - A presentation about digital identification and authentication of engineering documents was provided that highlighted the application of digital seals and their implication on professional liability.

Practical Design - A presentation was provided about performance-based practical design including examples from the Michigan Department of Transportation. Practical design is a change in philosophy where the focus is on a design that benefits both, project and system.

Diverging-Diamond Interchange in Calgary - A presentation was provided regarding the implementation of the diverging-diamond interchange project, public engagement, and publication as well as lessons learned. The overview included information regarding the project background, options considered, and the procurement process.

An update was provided regarding Federal Infrastructure Funding, including an overview of the National Trade Corridor Fund program objectives, project eligibility and eligible recipients.

Infrastructure Canada representatives provided a presentation about the Investing in Canada Plan (over \$180 billion available over 12 years) to create economic growth, build inclusive communities and support a low carbon, green economy. A change in the funding approach was highlighted from exclusively asset-based investment to an outcomes focus for eligibility. An update was also provided on the Canada Infrastructure Bank, Smart Cities Challenge and Gas Tax Fund.

On the second day of meetings, the CEC received updates and approved the activities of all of TAC's standing committees including the Asset Management Task Force, the Joint Active Transportation Subcommittee, and the following standing committees: Geometric Design, Maintenance and Construction, Pavements, Road Safety, Soils and Materials, Structures, Traffic Operations and Maintenance.

TAC Board of Directors has approved the creation of an Automated and Connected Vehicles Task Force.

The CITE/TAC relationship is a strong one and being provided a seat at the CEC provides an opportunity to exchange information and best practices between the organizations.

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Urban Transportation Council



KATE WHITFIELD

Senior Associate Engineer/Planner, Alta Planning + Design - Canada, Inc.

Urban Transportation Council (UTC) oversees several committees and is a good venue for its members to compare the trends and priorities in cities across Canada. Wendy Reuter from the Urban Transit Association attended the meeting and spoke of the UTA's mobility management toolbox.

Louis-Paul Tardif and Roozbeh Hosseini presented on Transport Canada Trade Corridors and Transportation Activities. Through its efforts to monitor multi-modal transportation, Transport Canada is tracking in detail the performance of its ports, border crossing wait times using GPS, and intercity travel. The six metrics reported to the Canadian Centre for Transportation Data include: commodity flow indicator; urban travel time index; border wait times; intercity truck travel indicator; infrastructure readiness (i.e., alternative fuel); and winter roads.

Ahsan Habib from the Dalhousie University presented on the topic of Natural Disasters and Associated Evacuations. Kornel Mucsi from the City of Ottawa gave a presentation on Street Transformations Triggered by Ottawa LRT.

Geoff Noxon's update on the Strategic Matrix provided the basis for a discussion on the relationship between the different TAC committees. Mr. Noxon indicated a working group, formed in September 2017, has come up with a revised matrix revolving around the TAC Strategic Plan focus areas, while incorporating a more functional layout.

Members of the committee were asked to participate in and promote the recent Bicycle Safety Performance Survey and the Integrated Health and Transportation Survey. Both projects are currently underway at TAC.

Sustainable Transportation Standing Committee



JUSTIN BAK

Project Manager, City of Toronto

The Sustainable Transportation Standing Committee (STSC) is a standing committee under the Urban Transportation Council (UTC). The primary objectives of the STSC are to promote research, analysis, development, and application of sustainable transportation strategies, policies, tools, and practices for urban areas. Current projects include:

- Strategic Opportunities for Integrating Health and Transportation jointly with the Transportation Planning & Research Standing Committee (TPRSC). The primary objectives of this project are to explore how health can be integrated into transportation planning, design, and decision making; explore how health is impacted by different modes of transportation; and suggest measures to strengthen the integration between health and transportation. The project is planned to be completed by May 2019.
- Volunteer project titled Public and Stakeholder Engagement in Sustainable Transportation. The primary objectives of this project are to identify challenges and opportunities for effective and efficient delivery of public and stakeholder engagement in planning, implementing, and operating sustainable transportation projects.
- Volunteer project titled Compendium of Provincial Legal and Regulatory Approaches Supporting Bikeway Geometric Design and Traffic Control Practices. The primary objectives of this project are to identify legal and regulatory barriers faced by jurisdictions in implementing on-road cycling facilities. The project will include a survey of jurisdictions identifying different cycling facility types and the regulatory barriers affecting their implementation.

Joint Active Transportation Subcommittee



MARIAN MITHANI

Client Consultant, EcoCounter

JATSC proposes its first volunteer project! Draft proposal aims to review tools available for estimating latent demand: current research and methods, research gaps or recommendations. Project lead discussion is still underway.

Presentations were made about the TAC Traffic Monitoring Guide Ch. 7: Non-Motorized Traffic Monitoring and the Manitoba Infrastructure AT Policy & Planning Papers.

Members reported AT on agendas for committees and task forces on: sustainable transportation, planning research, road safety, traffic operations, geometric design, maintenance, small communities, and climate change (STSC, TPRSC, RSSC, TOMSC, GDSC, MCSC, SMTF, ICCO).

Roundtable hot topics: provincial progress for AT plans and policies, accommodating senior populations, challenges in rural areas, a proliferation of e-bikes, Vision Zero policy impacts to data needs, network-scale bikeway implementation, and trends for pedestrian and cyclist facilities with more space and separation.

JATSC executive seek volunteers for 1) communications to update TAC members about on-going about JATSC activities and 2) AT asset database manager to help maintain AT resources in the TAC library. If you can attend meetings and enjoy outreach or being up-to-date on AT literature, please email mmi@eco-counter.com.

Education and Human Resources Development Council



MAUREEN VAN RAVENS

Manager of Transportation, Town of Halton Hills, Ontario

The EHRDC spring meeting focused on organizational downsizing and change in delivery of services. We also discussed the soft skills that are required and how do we train people to acquire those skills. The EHRDC also acknowledges that technology is changing rapidly and is changing how we do business. The EHRDC is focusing on helping students learn more about connected transportation and cyber information security.

The EHRDC activities for the 2018 Fall conference will focus on the following:

- High school event. The organizing committee will invite at least 30 high students from a local school in Saskatoon to learn about the Transportation field.
- Post-Secondary Student Event. TAC will host participating post secondary schools focussing on transportation with lunch and exciting activities to broaden their knowledge in the transportation Industry.
- Two Panel Sessions which include the topics "Evolution in the Transportation Workplace (Effective onboarding, Transitions and Innovations)" and "Retiring soon? What's next in your career"
- One Workshop which is titled "Building for the Future: Construction Management Retention & Expertise"

All the events planned will be educational and with something interesting for everyone.

Road Safety Standing Committee



PEDRAM IZADPANAH

Partner & Senior Project Manager, CIMA+

The 2018 TAC Spring meeting coincided with the initiation of the newly elected executives of the Road Safety Standing Committee (RSSC). The new executives are: Chair – Craig Milligan (Fireseed North), Vice Chair – Nelson Costa (York Region), Secretary – Heide Schlegl (Town of Milton), and Past Chair – Ali Hadayeghi (CIMA+). The new executive committee brought a new approach to running the RSSC meetings with more focus on technical presentations and technical matters than the administrative matters of the RSSC. Most of the administrative matters are being worked on by the subcommittees and through the pre-circulation of materials before the TAC meetings.

In 2013, the RSSC members adopted the RSSC Strategic Plan for 2014-2018. The strategic plan assisted the RSSC subcommittees to focus and deliver on the strategic tasks. The RSSC has had tremendous achievements during the past 5 years. The 2018 Spring meeting was the time to initiate updating the strategic plan for 2019-2023. The RSSC identified three strategic directions: Strengthening our Profession and Impact, Accelerating Accessible Research, and Increasing the Value of Meetings and Membership. The attendees of the meeting broke out into three groups to brainstorm strategic initiatives that the RSSC should undertake under the above noted strategic directions.

The RSSC organizes panel discussions and workshops during the TAC fall conferences on topics identified by the members. The RSSC members brainstormed about the topics that should be covered for panel discussions and workshops during the TAC 2018 Fall Conference in Saskatoon. As a result, The RSSC is organizing a panel discussion on Vision Zero and a workshop on safety of active transportation facilities.

The RSSC is always looking for fresh ideas and dedicated volunteers. Project Idea Development & Initiation Subcommittee (PIDIS) is seeking new volunteers and project ideas.

Geometric Design Standing Committee



MARCIA ENG

Senior Transportation Engineer, Urban Systems Ltd.

- Ongoing hot topics during roundtable discussion include:
 - › Succession planning is still a concern
 - › Roundabout design and implementation still very active across the country
 - › Active transportation and accessible design. A number of jurisdictions are planning or have plans for cycling infrastructure and integrating active transportation into master plans.
 - › Climate change and pressures to infrastructure (e.g., flooding, wild fire, permafrost, etc). Ministry of Transportation in Ontario (MTO) has hired their first climate change engineer.
 - › Impact of driverless cars and automation on economy and road design
- Discussed the 2018 Fall Technical Meetings and Conference in Saskatoon, SK. There will be three sessions for Geometric Design. The conference will be recording presentation, and audio and slides will be available.
- TAC planned to run a series of training courses across the country on the 2017 Geometric Design Guide (GDG) in 2018 and also have plans to host future webinars on the 2017 GDG for 2018/2019.
- Established working group for over dimensional vehicle consideration for the TAC 2017 Geometric Design Guide (GDG).
- TAC is looking for feedback on how the release of the 2017 GDG was. The sale of the guide has exceeded their expectations.
- Ongoing working group discussions for the Cross Section (4), Access (8) and Interchange (10) chapters.

Traffic Operations and Management Standing Committee (TOMSC)



JAMES DONNELLY

Transportation Engineer / Principal,
Urban Systems



TOM BAUMGARTNER

Transportation Engineer,
Watt Consulting Group



JIM MALLET

President & CEO, Paradigm
Transportation Solutions Limited



JEANNETTE MONTUFAR

Founding Partner & CEO,
MORR Transportation Consulting



GREG O'BRIEN

Atlantic Practice Manager, Traffic Engineering and
Transportation Planning, WSP Canada Inc.

The Traffic Operations and Management Standing Committee (TOMSC) is responsible for the development and application of traffic control devices and practices in Canada. At the 2018 Spring Meeting, representatives from provincial and municipal jurisdictions, industry, academia, and CITE met to discuss hot topics and new/ongoing projects. Highlights included:

Hot Topics

- City of Vancouver – Elephants Feet included in S&T By-law and Revised Definition of Jaywalking
- City of Ottawa undertakes Pedestrian Blocker Project
- Quebec – New Transit signal needed for permitting turning movement in new Montreal BRT project.
- City of Montreal – Champlain Bridge Project expected to be complete this year
- New Brunswick – New Dogbone/Teardrop interchange at Route 15/Harrisville Boulevard
- City of Halifax – New Integrated Mobility Plan with 30% non-auto goal
- Pedestrian death from Self-driving car in Arizona – no detection. Mid-block location.
- Remembering the Humboldt Broncos – “We are one team”

Final Reports

- Canadian Capacity Guide and PTV Vistro Integration and Training
- Standardization of Agricultural Vehicle Warning Signs
- Parking Prohibited Except While Charging (EV) Sign

Progress Reports – Applications and Practices

- Traffic Signal Spacing Requirements
- Best Practices for Street Name Signing
- Red Arrow Display
- Decorative (incl. “rainbow”) Crosswalk Pavement Markings
- Manual of Uniform Traffic Control Devices (MUTCD) Update

Project Updates – Development of Devices

- Transit Priority Signal Sign
- Adoption of Fluorescent Yellow-Green Pedestrian Crosswalk Signs
- Re-Design of WC-8, WC-12, WC-13 Signs (Truck, School Bus, and Fire Truck Entrance)
- Electric Vehicle Permitted in Reserved Lane Sign

New Projects

- Roundabout 270 Degree Truck Turn Signage
- Standardized Application of Delineators
- Update to Share the Road Signage

If you have any questions regarding TOMSC or any of these projects or have a potential project idea, please don't hesitate to contact one of the CITE appointees.

Joint CV/AV Working Group



ERIN TOOP

Transportation Engineer

The CV/AV Working Group met in the evening of April 20th, and agenda items included:

- Receiving updates from the sub-groups
 - › Technical Activities Sub-Group is currently planning a joint webinar with ITS Canada.
 - › Project Idea Sub-Group is developing a project with Education and Human Resources Development Council about new data and HR issues related to CAVs.
 - › Conference Sub-Group is coordinating a panel discussion, workshop and presentation session for the Fall 2018 Conference in Saskatoon.
- Discussing the creation of a new TAC CAV Task Force
 - › A workshop was planned for June 21-22, 2018 to identify connected and automated vehicle issues affecting TAC's membership and help TAC develop a roadmap and action plan to address these issues.
- Special presentations:
 - › from Transport Canada on federal government involvement in CAV activities
 - › Traffic Technology Services Inc on a personal signal assist technology demonstration on Hunt Club Road in Ottawa
- Roundtable discussion and updates from attendees about CAV work in their jurisdiction
- Next steps from this meeting to create draft terms of reference for the new TAC CAV Task Force present this to the Board of Directors for approval

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TLC Update & Call for Volunteers

An updated Terms of Reference for the Technical Liaison Committee (TLC) was approved by the CITE Board of Directors at their June 2018 meeting in Edmonton. The purpose of the update was to focus the TLC on its mandate to coordinate and oversee CITE's technical projects and policy development. The evolution of our partnerships with both TAC and ITE International has emphasized the importance of this coordination role for the TLC. The [new Terms of Reference](#) appoints four members, two of whom will be focused on coordination with TAC and CITE's appointees to the various TAC standing committees, and two of whom will be focused on coordination with ITE International and CITE's representatives on the Council Executive Committees and the Coordinating Council. The general mandate of the TLC to ensure that CITE members have the opportunity to participate in technical projects remains.

The updated Terms of Reference were prepared by the outgoing Chair and Vice Chair of the TLC, Dwayne Cross and Kerra Mruss, together with CITE President Edward Soldo and Vice President Julia Salvini.

The CITE Executive is looking to fill the four TLC positions starting in the fall of 2018. If you are a CITE member who is interested in participating on the committee, please submit to VicePresident@cite7.org by August 17, 2018:

- a letter expressing your interest and the skills you would bring to the committee,
- an indication of support from your employer, and
- a resume.

TLC members are appointed for two year terms, renewable up to a maximum of six years. They are expected to attend at least one and usually two face-to-face meeting(s) per year, attend at least three conference calls per year, and assist in the ongoing coordination of technical projects that CITE is involved in. Expenses are expected to be covered by the employer but may be partially subsidized by CITE depending on budget availability and priorities. Preference in choosing TLC members will be given to TAC appointees and appointees to ITE Council Executive Committees, but other interested CITE members are also encouraged to apply.

If you have any questions about the volunteer positions with TLC, please feel free to contact me. We look forward to hearing from you!

A handwritten signature in black ink that reads 'Julia Salvini'.

JULIA SALVINI
CITE Vice President
VicePresident@cite7.org

2018-2019 Training Calendar

The Training Committee has selected the following four topics for training sessions this year:

1. Canadian Capacity Guide (CCG) Methodology with PTV Vistro Software
2. Canadian Guide to Traffic Calming 2018
3. Complete Streets
4. Bicycle facilities design

To date, a Bicycle Facilities Design Workshop was held in Dartmouth on May 25, 2018, as part of the Atlantic Canada Active Transportation Summit and workshops about the Canadian Capacity Guide (CCG) Methodology with PTV Vistro Software were held as part of the CITE Annual Conference in Edmonton on June 3 and in Toronto on July 9 and 10.

Upcoming training is planned for:

Date	Training	Location
July 2018		
July 25	Complete Streets (<i>REGISTRATION OPEN</i>)	Surrey
September 2018		
TBD	Canadian Capacity Guide Methodology with PTV Vistro Software	Vancouver
TBD	Bicycle Facilities Design	Kitchener/Waterloo
October 2018		
TBD	Canadian Guide to Traffic Calming	Saskatoon, Victoria, Vancouver, Winnipeg, Edmonton, Calgary
October 23	Complete Streets	Ottawa
November 2018		
TBD	Canadian Guide to Traffic Calming	Halifax, Ottawa, Montreal, Toronto area, Hamilton
TBD	Bicycle Facilities Design	Regina
2019		
Week of Feb 4	Complete Streets	Calgary

Visit the CITE Event Calendar (cite7.org/events) to register for open training sessions and for more information as details are released.

We would like to hear what topics are of interest to you and where you would like to see training. Please send us a message at training_committee@cite7.org.

COMPLETE STREETS TRAINING

July 25, 2018 – Surrey, BC

REGISTER HERE

The first Complete Streets Training workshop will take place in Surrey, BC on Wednesday, July 25th. The focus for the full day training and interactive session is on the implementation of Complete Streets projects. Cities are gaining experience in this field and regional, national, and international Complete Streets guidance is advancing. This is an opportunity to review existing policies and practices and consider Complete Streets principles within a local context. Strategies for implementing Complete Street principles will be discussed including working with stakeholders. The workshop will explore the future of Complete Streets through policy and design with the rise of new mobility options, curb access management, and how the use of our streets is changing. The session will cover walking, cycling, transit, trucks and private vehicles. Other sessions of this training opportunity will be provided in Ottawa in October 2018 and in Calgary in February 2019.

Kate Whitfield, P.Eng., MCIP, RPP will be the primary presenter for this workshop. Kate is both a Professional Engineer and a Registered Professional Planner. With her dual accreditation, Kate is able to bring the language of engineering and urban planning together to focus on implementation. Kate has led projects from the functional planning stage, through detailed design and construction. She has worked on walking and cycling projects from coast to coast. Kate will be assisted by Kirk Paulsen.

Kirk Paulsen is based in Alta's Portland Office. Kirk joined Alta as an engineer to align his passion for active transportation with his transportation engineering design skills. His transportation engineering work experience consists of bikeway conceptual designs; Safe Routes To School; bicycle, pedestrian, and neighborhood safety analyses; design plans and development of transportation impact analyses.



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CITE's Incorporation

What Does It Mean For You?

BY STEVEN GARNER
CITE DISTRICT ADMINISTRATOR

On October 31, 2017, the Canadian Institute of Transportation Engineers (CITE) was officially registered as a Canadian not-for-profit corporation. The change in status is representative of the growth of CITE and the prominence of our organization as a community of transportation professionals from across the country. In this article, I will explain what precipitated our seeking incorporation and the implications of the change in status to our Sections and membership.

WHY INCORPORATE?

In 1988, CITE was granted a Charter by the Institute of Transportation Engineers (ITE) to represent ITE in Canada. The Charter stipulates various aspects of what is expected of the Canadian District in terms of its purpose, its relationship with ITE, and general administrative and governance requirements. From this flows the District's operating bylaws which, to a large extent, are left to the District itself to develop.

Despite having a Charter with ITE and its own bylaws, neither ITE nor the Canadian District of ITE (CITE) had any legal standing in Canada beyond that of an association. It is important to understand this nuance to get a full appreciation of why incorporation was important. An association in Canada can be any group of people with a common cause. They can come up with a name for their association and even open a bank account. However, they are not, as a group, a legal entity. Members of an association are all personally responsible for the association's behaviour and assets. In other words, there is no limit to the liability of the association.

KEY IMPLICATIONS

- Section liability will be reduced with CITE's new ability to sign agreements on Sections' behalf and provide insurance for Section events
- CITE members generally unaffected on an individual level
- CITE operations are evolving, with new policies and procedures to comply with Canadian legislation

Being personally responsible for the behaviour and assets of an association is not generally a problem for small groups. A book club, for example, can have a bank account in the club's name to facilitate purchasing of refreshments. If someone steals the money from the bank account, the members are out a bit of money but the incident is likely nothing more than a lesson learned.

To extend the example a little further, when our book club enters into any kind of contractual arrangement we are all implicitly named on the contract. In this case, the obligations of the contract are the responsibility of the named people on that contract. The book club cannot be named as a signatory to a contract.

This is where CITE found itself prior to 2017. The association had grown beyond the point of where assuming personal liability was appropriate. Contracts and agreements were

signed on the organization's behalf and significant assets were amassing in the form of cash and scholarships. All of these obligations extend well beyond what you would expect to assume as a personal responsibility. The decision was thus made to incorporate.

IMPLICATIONS OF INCORPORATION

There are several implications that result from incorporation that impacts CITE, Sections, and members of ITE in Canada as a whole.

Implications for CITE

As a newly created not-for-profit corporation, CITE had to start from the beginning by drafting new bylaws (which will be going to the Board and membership for approval soon), opening new bank accounts, and acquiring new insurance policies. In addition, CITE now must comply with the requirements of the Canadian not-for-profit legislation. All this means new policies and procedures must be developed to ensure compliance with the various obligations of a not-for-profit corporation. Those policies and procedures are now under development.

Implications for Sections

Sections, being creatures of CITE, have rightly asked what incorporation means to them and whether they should also consider incorporating. The implications for Sections can be summarized into three main areas:

1. **Sections continue as associations** – Sections themselves are not incorporated. A Section bank account belongs to the association of people at the Section level who run the affairs of the Section.
2. **CITE can sign agreements on your behalf** – This may be particularly relevant with respect to venue bookings for meetings. You may have, in the past, signed an agreement; however, this agreement would have been personally binding. CITE can now sign these types of agreements on your behalf, thus limiting your Section's personal liability. This will simply involve contacting the District Administrator who will work with you to finalize your agreements.
3. **CITE insurance now covers your events** – If you hold a CITE sanctioned event, your event is covered by the District's event insurance policy. Note that CITE must be notified of your event (you do this by submitting it to our [event calendar](#)) and you must publicize the event as a CITE event hosted by your Section.

Policies with regard to signing of contracts and insurance will be developed in the coming months to provide Sections with further guidance. CITE is working to ensure that these will be easy and simple processes that will ultimately be of great benefit to your Sections.

On the question of whether a Section itself should incorporate, the answer is likely no. Much of the personal liability that a Section might face will largely be eliminated when contracts are signed by CITE on your behalf and Section events are insured through CITE. Furthermore, CITE is looking into different models for managing scholarships to reduce the risk of holding large cash assets for CITE and Sections. Recommendations on different approaches will also be coming in the near future.

Implications for Members

When CITE applied to incorporate under Canadian not-for-profit legislation, we were initially denied the use of the name "Canadian Institute of Transportation Engineers." The words "engineer" and "engineers" are strictly regulated in Canada. Before CITE could be incorporated, we had to seek approval for use of the name in every jurisdiction in Canada that has an engineering regulatory authority.

Eventually, the approval was granted and the incorporation was completed; however, there are implications for our members in Canada. Since CITE membership includes non-engineers, there was concern expressed in many jurisdictions of members misrepresenting themselves as engineers when, in fact, they are not. In all respects, CITE agreed that we and our members will adhere to the appropriate legislation in each jurisdiction and not use our name to misrepresent one's qualifications. **In particular, no one will call themselves an engineer or use an engineer's abbreviation in any jurisdiction in Canada who is not qualified to do so.** In all other respects, membership is generally unaffected by incorporation.

WE ARE NOW SET FOR THE FUTURE

It has been a lot of work to get to this point but CITE now has the foundation to continue to grow. There is a certain level of legitimacy that goes with incorporating under federal legislation that helps reflect the breadth and depth of CITE. The steps that have been taken will ensure that the Canadian Institute of Transportation Engineers continues to be Canada's community of transportation professionals well into the future.

FARHAD SHAHLA P.Eng., M.Eng., PTOE, PMP



Family

My wife Sanaz and three daughters: Nikta, turned 4 in May 2018; Alma, 7 months + 6 minutes; Diba, 7 months.

Personal hobbies

Running and reading CITE's Transportation Talk!! ;)

Current employment

City of Mississauga, Hurontario LRT Project Engineering Lead

Education

- Ryerson University, Bachelor of Engineering (B. Eng.), Civil Engineering, 2007
- University of Toronto, Master of Engineering (M. Eng.), Civil Engineering, 2009

First job in transportation engineering

Traffic Engineer, Town of Oakville

Current city of residence

Oakville, Ontario

What positions have you taken on as a member of ITE?

- 2006–2007: Vice President, Ryerson University Student Chapter of ITE
- 2008–2010: Active member with TLC to update the 3rd edition of the Canadian Capacity Guide for Signalized Intersections, investigating methods of calculating vehicle emission and fuel consumption at signalized intersections and on the traffic calming project
- 2011: Active member with ITE Best Practices Phase III/Sustainability Task Force
- 2012–PRESENT: Toronto Section Executive Member, currently serving as Section President

CITE INVOLVEMENT

When did you first attend a CITE event?

I started my involvement with CITE back in 2006 as the VP of the Ryerson University Student Chapter as I was completing my undergraduate studies in Civil Engineering. I had come to realize the importance of connecting and staying involved with social and professional communities on top of meeting the program curriculum requirements and scoring high in your GPA.

My first formal attendance at a CITE event was the 2013 conference in Calgary to present a paper on the application of urban roundabouts in downtown Mississauga.

What do you value most about your CITE membership?

The most valuable piece of my CITE membership is getting to know subject matter experts in all areas of the transportation discipline, not limited to engineers only, but also planners, researchers, members of academia,

manufacturers, scientists, students, and much more. The ITE community is broad and it touches on all aspects impacting our living conditions: infrastructure, health, finance, politics, etc. It goes beyond work only; you can easily relate your findings to your very personal life.

Membership with CITE allows me to relate with what I do at work. I know where to go for information, lessons learned, and knowledge transfer, enabling a higher performance at work – making me a better employee.

Social events hosted like those at the annual conferences are great ways to build lasting relations, touching base with others with similar areas of interest as yours and carrying over solutions that have worked. Such events make communication much easier and members are more comfortable to share knowledge and make new friends – friendships that go all across the nation and beyond.

PROFESSIONAL EXPERIENCE/ACHIEVEMENTS

How would you describe your job to someone you just met at a party?

In my role with City of Mississauga, I am in charge of enabling solutions to challenging problems, processes and requirements. But isn't this what we all do in the field of transportation? This field is interconnected with many other disciplines and a comprehensive solution requires checking in with all others with interests from their perspectives. The solutions I strive for can relate to an engineering or planning matter, or could be in response to a process or requirement related issue which needs streamlining; while ensuring all interests are reasonably protected.

What is one aspect of your work that you particularly enjoy?

I enjoy the teamwork aspect of my work the most; that's where I dedicate my effort to get my team to transition from "forming" to "performing" on a smooth as possible path, towards "adjourning" where we deliver results. In a nutshell, we work to build, improve or provide services and in all cases ensure that our end users are satisfied with the outputs.

What are one or two projects that you're most proud to have worked on?

Very recently, as part of a new process to receive utility relocation designs and review and coordinate comments across a review panel, I was assigned to lead the associated tasks to ensure all phases of design review are completed. A competing requirement for this task has been to complete reviews within a constrained time period to ensure keeping within the project schedule. I lead a focus group responsible for redefining the traditional process, allowing for early consultation prior to formal submission for review. We established field conflict resolution processes and roles and responsibilities were clearly spelled out to ensure timely progression through the process when resolving utility conflicts. Certain modules were also added allowing the applicant to proceed with requests for additional permits, while the applicant could continue working with the utility agency to rectify conflicts prior to construction commencement. The focus group also established a process which would lead to reduced time lines when addressing field utility conflicts identified during construction.

During your career to date, have you pursued any professional designations through ITE (such as PTOE)?

My team needed to have full access to the Traffic Operations knowledge set to be readily available and hence I was approached and was offered the opportunity to pursue my designation as a Professional Traffic Operations Engineer.

Knowledge gained through the certification process comes in quite handy from time to time no matter if your roles and responsibilities change throughout your career.

Please describe what attracted you to the transportation profession?

I started off my undergraduate studies amazed by structures and structural engineering. My work term with Viva York in summer 2005 was a life changer. I completed 2 full time summer work terms and my remaining school terms on a part time basis with Viva York. Fascinated by the evolving Transit industry in York Region, I pursued my undergraduate thesis project in Transportation, immediately followed by my Masters of Engineering in Civil – Transportation.

If asked to speak to a class of engineering students, how would you recommend it as a profession?

I would highly recommend pursuing Transportation Engineering as a profession. It's not just about transportation, it further entails people's behaviours and expectations, how we live, interact and socialize, our health, our economy and much more. The transportation profession offers you the opportunity to serve and protect the public.

Projecting yourself into the future, from an end-of-career perspective, what will you hope to have accomplished?

I'd like to be considered a good leader who is accountable and reliable; a leader who works side by side with their team, a leader who is fully aware of the expertise within their teams, who can rely on that expertise and can optimize utilization of resources and their knowledge; a leader who rewards others for success and who is not afraid to acknowledge their own mistakes and have the courage to take actions to correct.

What is the single greatest satisfaction you take from your job as a transportation professional?

Every decision I make at work will impact people. I think of my end users: what would they say and how would they feel. What about the next generation? Will the decision I make today be useful for at least the next few generations to come? How would my peers perceive my work and decisions? The greatest satisfaction I take from my job is when I have made the right decision and have done the right thing.

A closing thought?

Uncle Bob from Spider-Man says: "With great power comes great responsibility." Engineers are powerful individuals who can make important decisions and they shall remain responsible for the decisions they make.

GREATER VANCOUVER SECTION

The Greater Vancouver Section had an excellent few months in the spring and summer with four events including the annual summer golf tournament.

The first event of the spring quarter was a lunch meeting held on March 28th. Mavis Johnson, founder and president of the Canadian Traffic Safety Institute, provided a presentation on the safe systems approach to road safety, which provides a logical framework to examine



road safety elements and their interactions. This presentation provided members with understanding around the risks and countermeasure possibilities related to road safety with discussion around proactive elements such as land use planning and reactive elements such as post-crash response.

The second event of this quarter was a breakfast meeting held on April 25th. Lina Halwani, P.Eng. from the Ministry of Transportation and Infrastructure and Edmund Lee, P.Eng. from R.F Binnie provided a presentation on improvements to Alex Fraser Bridge that included implementation of a compact Moveable Barrier System allowing the current six-lane bridge to accommodate seven lanes in the future. The presentation also provided information about the implementation of an Advanced Traveller Information System, which provides reliable travel time formation for the other Fraser River crossing at key decision points where motorists can adjust their travel patterns.



From June 3-6, several GVITE members attended the CITE Annual conference in Edmonton. The conference was hosted by the Northern Alberta Section of ITE and the three days of programming included interesting presentation, technical tours, and social events. GVITE was thrilled to be selected as the host of the 2020 conference and looks forward to welcoming CITE members to Vancouver a couple years from now.

The 17th Annual GVITE Golf Tournament was held on Thursday June 21st at the Burnaby Mountain Golf Course. Despite some ominous clouds in the morning, the weather held up, providing an enjoyable afternoon for golfing, socializing, dinner and prizes. Thank you to Tyler Thomson and Kyle Brandstaetter from Bunt & Associates for organizing the event.



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SOUTHERN ALBERTA SECTION

The Southern Alberta Chapter has been busy this quarter with interesting speakers at our monthly luncheons.

One of the highlights was Jannette Sadik-Khan – Former Transportation Commissioner for New York City who discussed her book “Street Fight a Handbook for an Urban Revolution”. Janette transformed New York City into a dynamic city with safe space for pedestrians and bikers. Janette noted the benefit of doing quick, easy and inexpensive initiatives. By “trying” out new ideas on a temporary basis it created easier buy in and provided the ability to adapt and modify and be creative. Calgary has taken this approach on several initiatives including: temporary cycle tracks, using tactical urbanism under the 4 Avenue flyover and the trial of a low speed autonomous vehicle pilot project coming this fall. This was a joint session held with Alberta Professional Planners Institute (APPI), so the Q and A session had a rich variety of questions.

We also had speakers David Nagy discussing communications, Judy Yu discussing risk, Malcolm Logan discussing the adoption of electric vehicles in Canada and Ryan Martinson presenting on Equity in Mobility.

With the proximity to Edmonton, many of the SAITE membership attended the CITE conference and also presented several papers. The sessions created lots of good discussion and tours of the LRT, cycling and walking system were very interesting.

Our summer break was kicked off with a tour of the 17 Avenue SW construction site and a summer social at a local pub. 17 Avenue is a 30-year-old road, with 100-year-old utilities that is being upgraded to provide a design that is safer, improves the pedestrian environment and buries utilities. The project will also be installing LED lighting and providing sitting areas and new trees.

Congratulations to two SAITE members - Jen Malzer who was elected as District Director to the International ITE Board of Directors and Irini Akhnoukh who won the CITE Rising Star award at the CITE conference.



NORTHERN ALBERTA SECTION

Summer is here and that means the official end of another season of luncheons, presentations, tours and other networking events brought to you by the Northern Alberta Section of CITE.

We want to take this opportunity to thank all of our members and sponsors for your continued support! 2017-18 was a great season, capped off with the CITE Annual Conference hosted right here in Edmonton. For three days, over 350 transportation professionals shared their experiences, learned about the latest research and best practices, explored new technologies, engaged in thought-provoking discussions, experienced some of Edmonton's transportation accomplishments, and enjoyed everything Edmonton had to offer. One more shout out to the Local Arrangements Committee and a big "thank you" to everyone that made it a great conference!

While the conference was filled with many memorable moments, one of ours was receiving the CITE Section Activity Award which recognizes the overall quality of Section activities. The Northern Alberta Section Board is truly appreciative for being recognized and thankful to all of our members and sponsors for their tremendous support over the years -- we look forward to seeing you again in September!



SASKATCHEWAN SECTION

In April, the Saskatchewan Section hosted their annual Spring Session at the Wascana Country Club in Regina, Saskatchewan. The Spring Session was kicked off with an ice breaker event which involved a paper airplane contest. Each group was provided with 10 sheets of paper to try and build the airplane that could fly the furthest. The competition was fierce! It's amazing how involved transportation professionals can get when you involved physics and aerodynamics into a challenge.

The Spring Session presentations focused on active transportation in the morning and on highways in the afternoon. Marina Melchiorre, Danae Balogun, Sheliza Kelts, and Chelsea Lanning from the City of Saskatoon provided an overview of Saskatoon's recent active transportation work and cycling projects which was followed by a roundtable discussion. Andrew Liu from the Ministry of Highways and Infrastructure presented on Transportation Data Use in Policy Development, and Jeffrey Holland and Tanya MacDonald from the Ministry of Highways and Infrastructure concluded the session by presenting on Highway Speed Zones within the province.



The event had 42 professionals and 3 students in attendance and the session was considered a success.



Keep checking the Saskatchewan section Facebook page for the latest news and updates: [Institute of Transportation Engineers – SK Section](#).



MANITOBA SECTION

The Manitoba Section has had a busy spring season with three interesting and informative presentations. In April we had an out-of-town guest, Jairo Viafara of the Grand Forks-East Grand Forks Metropolitan Planning Organization, give a presentation on Safe Routes to School. Jairo's presentation focused on parent surveys that have been done and described a study that considered how a parent's perception of spatially-based neighbourhood attributes influence travel mode choice, and how that choice may contribute to the socialization of children.

May's luncheon included Morgan Vespa of the City of Winnipeg's Office of Public Engagement. Morgan

discussed how technical teams and public engagement professionals can work together to design with the community's needs and community context in mind, using various knowledge bases to produce the best design outcome. She highlighted a current Active Transportation project (Osborne to Downtown Walk Bike Bridge and Connections) as an example to demonstrate importance of a coordinated team approach and how the City's Office of Public Engagement Office strives to undertake interesting and meaningful engagement processes.

In June, our luncheon featured a joint-presentation by Dave Duncan and Jeana Manning, both of Manitoba Infrastructure. Jeana and Dave presented an overview of Manitoba Infrastructure's draft active transportation policy and planning guidelines. The presentation included a discussion on the role of Manitoba Infrastructure in addressing active transportation on or in the vicinity of provincial highways, as well as outlined the proposed active transportation planning guide that will be used to direct the decision-making process when considering active transportation needs in relation to the provincial highway network.

The Manitoba Section is looking forward to a break over the summer months, but we have several exciting events planned in the Fall of 2018 that we hope to share soon!



CREDIT: MANITOBA CYCLING ASSOCIATION

TORONTO SECTION

The Toronto ITE Section had a busy spring season and we are looking forward to more informational presentations and networking in 2018. Toronto ITE Section strives to partner our events with complimentary organizations and municipalities to expand our reach and presentation material diversity.

This year's Spring Luncheon was held at historic Hart House on the University of Toronto campus and was co-hosted by the ITE Toronto student chapter. A capacity crowd of approximately 70 people were in attendance. Our guest speaker, Dr. Alison Smiley, a pioneer in human factors engineering, spoke about human factors issues with autonomous & semi-autonomous vehicles. She discussed recent human factors research in this field including challenges, key findings, and future areas of

research. A big thank-you to Dr. Smiley for an informative and absorbing talk.

ITE Toronto Section and the CITE Traffic Engineering Subcommittee hosted a breakfast session on Tuesday, April 24, 2018 addressing recent exciting initiatives related to the Canadian Capacity Guide for Signalized Intersections (CCG). During the breakfast session, Margaret Briegmann, P.Eng. and Ryan Sankar, P.Eng. discussed how the methodology has evolved over the years along with some of their experiences and highlights of its recent inclusion in PTV Vistro. A short demo of PTV Vistro CCG integration was shown. A roundtable discussion also occurred on the future of the CCG, including potential short and medium-term updates to the guide. A (sold out!) full day workshop on the new CCG methodology was held on July 10, 2018.



The section held their Mississauga Transitway tour on June 28, 2018. The Mississauga Transitway is a roadway dedicated solely for buses and extends across the City of Mississauga from Winston Churchill Boulevard in the west to Renforth Drive in the east. It connects to Hwy 427 in the east and ultimately will connect to the Eglinton Crosstown LRT. Riders are spared that ever present morning and evening congestion of Hwy 403 and Eglinton Avenue. The 19km facility includes 12 on-line stations and is the first of its kind in the GTHA. The facility opened to the public in stages, the first section being in 2014 and was fully completed in 2017.

Toronto ITE Section is also pleased to congratulate Sean Nix, ITE Toronto Section Past President, who was presented the 2018 Outstanding Volunteer Contribution award at the CITE Conference in Edmonton in June.

At the time of writing this article, we are preparing to host a tour of the Eglinton Crosstown in Toronto. Stay tuned!



ATLANTIC PROVINCES SECTION

Building on the success of past partnerships, the Atlantic Provinces Section and International Municipal Signal Association (IMSA) Atlantic joined forces to host a combined program as part of our annual spring technical session on May 10th in Dartmouth. The event attracted over 130 participants from both groups, including 16 students. We were also very pleased to have ITE Canadian District President Edward Soldo join us to take part in the session.

With recent interest on sustainability and alternate modes, the program featured presentations focusing mainly on transit, cycling, and multi-modal analysis. Additional presentations included a feasibility study related to the replacement of the A. Murray MacKay Bridge and road safety as it relates to signage retro-reflectivity. The partnership with IMSA also provided the opportunity to offer a trade show where members had the chance to learn about products and services from 10 separate vendors.

In what appears to be forming a bit of a new “tradition” for our section, we once again held a pub night social event the evening before the session. **exp.** stepped up to provide sponsorship of the event to help us get members together in an informal setting to chat, share a pint, and make some connections. We had about 30 members come out for the evening so it seems to continue to be a hit.

The entire event was a remarkable success thanks to our partner, IMSA Atlantic, and the support of our sponsors: **exp.**, Crandall Engineering Consultants, Halifax Harbour Bridges, NSTIR and Halifax.

As we move into the second half of 2018, we are beginning the planning for our annual fall session to be held in Fredericton. The end of 2018 will bring with it the end of the two-year term for our current executive. Roddy MacIntyre will be wrapping up his term as Section President and will move into the role of Past President. Mike Connors (current Vice President) will move into the role of President and Tanya Davis (current Secretary/Treasurer) will take on the role of Vice President. This will create an opportunity for one of our members to join the executive to fill the Secretary/Treasurer role. We will soon be issuing a call for nominations/interest and will hold an election over the summer months.



student chapter news

UNIVERSITY OF MANITOBA

The University of Manitoba (U of M) ITE Student Chapter was busy with Chapter events in April and attending conferences in June! We had one speaker, four days of community events, two conferences, and co-hosted the first Canadian Student Leadership Summit with the University of Alberta Student Chapter. We also have a newly elected team to take over the Chapter in September!

Events

To finish off the school year, we had our first Skype-based technical presentation, which was a great success! Ali Farhan from Alberta Transport spoke on the province's Regional Transportation Model. The remainder of April was spent conducting a new community initiative with CanU students. CanU is a charitable organization that helps young students (aged 12-16) realize the opportunities available to them through post-secondary schooling and provides students with social, educational, and nutritional resources to help them thrive in life and overcome their daily challenges. The event consisted of four different transportation-themed days and many collaborators. The first event was focused on introducing transportation engineering through presentations and activities that had the students think critically about how transportation affects change in the world. For the second day, we collaborated with City of Winnipeg Traffic Signals and Waze to teach students about technology, data, signal timing, and map editing. It was an interactive session where they used the Signal Branch's cameras and edited Waze maps. The third day included tours of the New Flyer and Winnipeg Transit facilities to see how the buses are constructed and Winnipeg Transit's control centre. They even got a tour of the BRT line on a chartered bus! The final event was a collaboration with UMCycle and Bike Winnipeg in teaching students how to maintain their bike and ride safely with hands-on workshops and videos. The entire event was successful with 12-20 students attending each of the four days.

Conferences (SLS, CITE, and NaTMEC)

June was a busy month for conferences. First, four U of M Student Chapter members sat on the Canadian ITE Student Leadership Summit organizing committee with U of Alberta Student Chapter members in Edmonton. We had five Chapter members attend the event, held June 2-3. The event was successful both in planning and

execution with our co-hosts and we hope attendees gained valuable skills (while having fun, of course!).

The U of M Chapter had six members attend the following CITE Edmonton 2018 Conference and were fortunate enough to win both the CITE Student Chapter Activity Award and the CITE Traffic Bowl Competition! We are proud to be sending the team to Minneapolis this August to compete in the International Traffic Bowl. The attendees at the conference learned a lot in the sessions and networked with other students and professionals throughout the week.

Four members of the U of M Chapter presented at the National Travel Monitoring Exposition and Conference (NaTMEC) in Irvine, California from June 10-13. Each of the presenters received positive feedback from the attendees at the conference and were able to learn about international projects from presenters around the world.



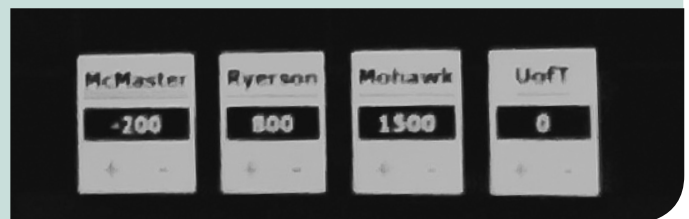
MOHAWK COLLEGE

With activity in general being very quiet around Mohawk College during the Spring-Summer semester, the only Mohawk College student chapter activity that has taken place since the last issue of Transportation Talk was the 2019 Mohawk College Traffic Bowl team participating at the 5th Annual Inter-Chapter Traffic Bowl Trivia Night hosted by the University of Toronto ITE Student Chapter (UT-ITE) on Wednesday, April 25th. Team members Taha Muhammad, Jack Ready, and Sivana Younan competed against teams from McMaster University, Ryerson University, and the University of Toronto in this annual preparatory session for the CITE Collegiate Traffic Bowl. Though the Mohawk team did not participate in the 2018 CITE Traffic Bowl in Edmonton this past June due to scheduling conflicts, they delivered a message on what to look forward to at the 2019 competition in Ottawa by scoring a commanding lead at times during the trivia night, as evidenced by the blurry photo on the right (and no, this was not doctored). Look out 2019 teams!

With the anticipated departure of immediate past Faculty Advisor Sean Nix from Mohawk College in the coming month, the Mohawk College ITE Student Chapter was thrilled to learn of him being awarded the 2018 Outstanding Volunteer Contribution award at the CITE Conference in Edmonton. While we are sorry to see him go, we are grateful that this award comes while he is still with us given his immense contribution to Mohawk College ITE Student Chapter activities since taking on the Faculty Advisor role in 2014. We wish him the best in his future endeavors.



*Above: Dan Havercroft (left) and Sean Nix (right) representing Mohawk College at the CITE 2018 conference in Edmonton
Below: Sean accepts the Outstanding Voluntary Contribution Award in Edmonton*



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student chapter news

YORK UNIVERSITY

Civil Engineering is a recently established department at York University, with the first wave of students graduating from the undergraduate program this past spring. The ITE York University Student Chapter was proposed in February 2018 to help students learn more about transportation and traffic engineering and to foster their future careers as transportation professionals. It seems appropriate that this has occurred so soon after the opening of two brand new subway stations on campus. The founding student executive includes Erik Nevland, Anson Thomas, Davin Utama, and Ravichandra Rampure with Dr. Kevin Gingerich overseeing the group as the academic advisor. The York University Student Chapter was approved by the CITE Board of Directors in March 2018 and has been working hard towards a successful official launch in the upcoming academic year.

Our student chapter is thrilled to be working with ITE to promote the transportation profession at York University. York students will have the opportunity to learn valuable skills and will make connections with other transportation professionals during guest lectures, field trips, networking events, and workshops. Our membership, composed of both undergraduate and graduate students, has begun the crucial preparation for the activities we are excited to host in our new state-of-the-art engineering facility. We look forward to hosting members from other chapters and sections to foster professional development and long-lasting collaborative relationships.

We would like to thank Farhad Shahla and Sean Nix from the ITE Toronto Section for visiting our campus and providing us with valuable information. We would also like to thank Edward Soldo and Gene Chartier from the Canadian ITE District for their assistance in setting up the chapter and getting it approved so quickly. Finally, we would like to thank Colleen Agan at ITE for providing sample documents and some initial contacts in ITE. As our chapter plans for the upcoming year we invite you to send any questions,

suggestions, or helpful advice to our email at iteyorku@gmail.com. Follow us on [Facebook \(/ite.yorku\)](#), [LinkedIn \(/ite-yorku\)](#), [Twitter \(@ite_yorku\)](#), and [Instagram \(/ite.yorku\)](#) for updates on upcoming events and news for the newest CITE student chapter.



*Above: York University Subway Station
Below: Bergeron Centre for Engineering Excellence*



UNIVERSITY OF TORONTO

Traffic Bowl Trivia Night

On April 25, 2018, the UofT ITE Student Chapter hosted a traffic bowl trivia night in the ITS Lab in the Sanford Fleming building. In total, representatives from four schools participated in the event – University of Toronto, Ryerson University, McMaster University, and Mohawk College. The goal of the event was to prepare the teams for the ITE Canadian District Collegiate Traffic Bowl.

2018 Canadian District ITE Collegiate Traffic Bowl

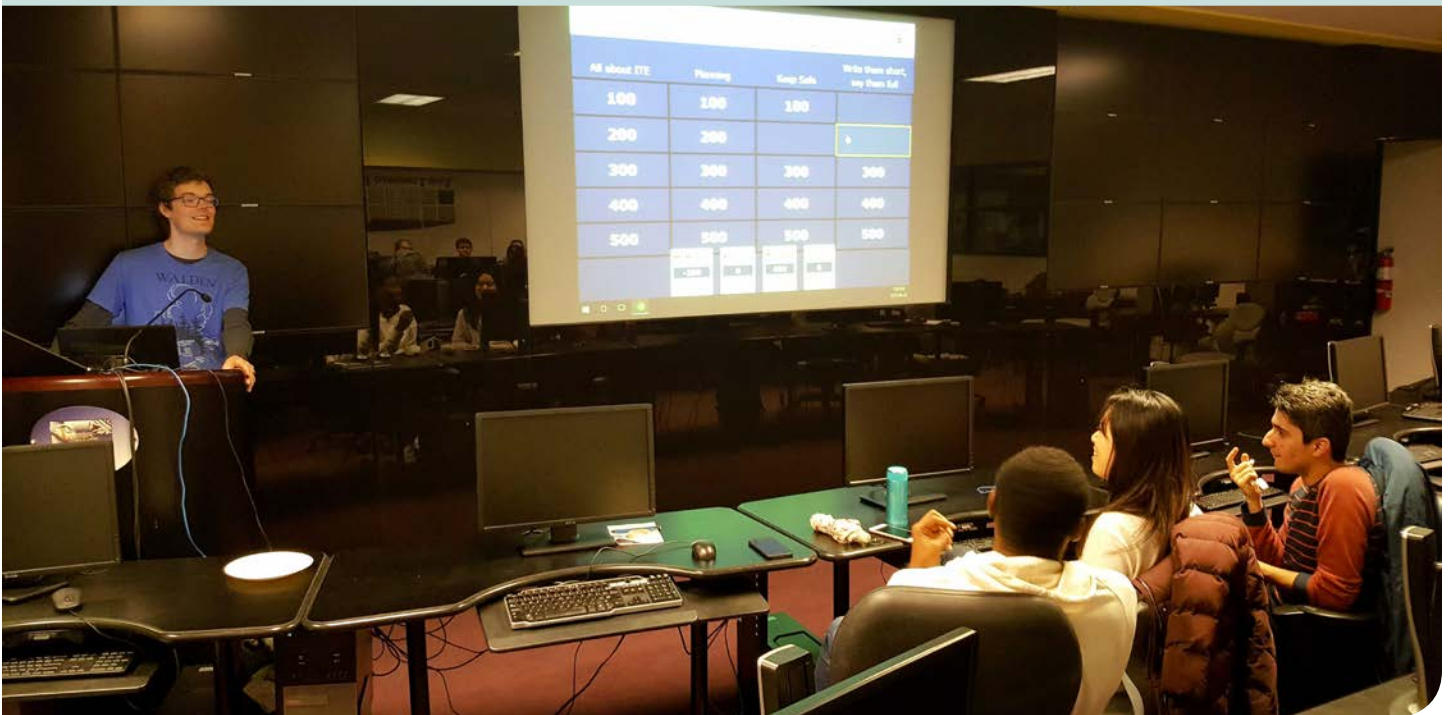
The UofT Student Chapter sent a team of three students to attend the 2018 CITE conference and compete in the District ITE Collegiate Traffic Bowl competition. The conference and competition were held from June 3 to June 6, 2018 in Edmonton, Alberta. Unfortunately, the team was unable to reach the final round, losing to the eventual district champions – the University of Manitoba.

Right: The UofT ITE Traffic Bowl team – (L to R) Kianoush Mousavichashmi, Samuel Abiola, and Lian Zhang

Below: UT-ITE Financial Executive Jason Hawkins hosting the trivia tournament with the UofT team

U of T ITE Soccer Game

The UofT Student Chapter of the ITE caught World Cup fever and will host several soccer games over the course of the summer. The first game was held in King's College circle on the U of T campus. Every member of the Transportation Engineering and Planning department at the University of Toronto, including graduate students, faculty, and staff, are welcome.



CARLETON UNIVERSITY

CITE Speaker Series

The Carleton Student Chapter hosted its second Speaker Series event in March with the greatest attendance of any Carleton Chapter CITE event in recent history. The focus of this year's speaker series was on how to break into the work force as a young professional. Four industry professionals, all of whom are recent Carleton University Civil Engineering Graduates, volunteered their time to present on their career paths thus far, interesting projects they have been a part of, and provided advice on applications and networking. Each presentation ended with a lively discussion period where students were welcomed to solicit advice on specific scenarios and gain more knowledge in particular areas of the profession in which they were interested.



MONTREAL-QUÉBEC ITE STUDENT CHAPTER

The chapter kicked off 2018 by focusing on bridging between industry and the academic environment to provide the members with excellent networking opportunities. In this regard, the chapter held a presentation and provided several opportunities for the members to participate in different events. Moreover, the chapter developed a new website to facilitate finding out about the relevant news and events – itesqc.ca.

The challenge of mobility in Turcot project

This presentation was on safety and maintenance of the Turcot project, a major project to rebuild one of the most significant interchanges in Québec. The Turcot project is currently the most important roadwork site in Québec. It includes the reconstruction of the Angrignon, De La Vérendrye, and Montréal-Ouest interchanges, as well as the sections adjacent to highways 15, 20, and 720. The Turcot interchange is a real hub on which more than 300,000 vehicles travel daily.

The progress and background activity of the municipality and project consultant WSP were presented by Sandra Sultana (Direction du Projet Turcot) and Sylvie Gervais

(Engineer from KPH Turcot). In this event, development of mobility scenarios, temporary works, and following up a full picture of mobility in the Turcot project were presented.

ITS World Congress 2017

Through the CITE Quebec student chapter, a group of members engaged in volunteer positions at the ITS World Congress 2017 in Montreal. In this conference, international companies presented their benchmark technologies and results of their research and development teams in the scope of Intelligent Transportation Systems. Volunteers guided visitors and speakers in the corresponding sections and became familiar with products of participant companies.

Movin'ON conference 2018

Members of Québec ITE student chapter participated in an international conference of cutting edge technology in transportation at Montreal to learn more about the transport market and create an efficient network for knowledge sharing and work on potential projects.

congratulations & welcome

CITE extends a warm welcome to all new Canadian District ITE members who recently joined us!

Sid A., University of Calgary, Calgary, AB

Jessica C. Achebe, University of Waterloo, Waterloo, ON

Carlos Aquino, Cole Engineering Group, Toronto, ON

Aaron Daniel Blata, RC Spencer Associates, Leamington, ON

Compton Bobb, City Of Brampton, Brampton, ON

Laura Cabral, University of Alberta, Edmonton, AB

Jack Chan, P.Eng., Alberta Transportation, Edmonton, AB

James Chandler, City Of Toronto Transp. Services, Toronto, ON

Creighton T. Chartier, Mohawk College, Oshawa, ON

Debang Chen, University of Toronto, Toronto, ON

John Chen, University of Alberta, Edmonton, AB

Marshall V. Davey, Concordia University, Montreal, QC

Frederick Egerdie, P.Eng., Alberta Transportation, Edmonton, AB

Angela Forsyth, P.Eng., Stantec Consulting Ltd., Lethbridge, AB

Valerie Foster, JSF Technologies, Victoria, BC

Mahsa Ghaffari, E.I.T., Alberta Transportation, Calgary, AB

Dhaval Harpal, Mohawk College, Hamilton, ON

Braden E. Harris, University of British Columbia, Surrey, BC

Jordan D. Hart-Bishop, WSP, Richmond Hill, ON

Eli Heyman, McGill University, Montreal, QC

Ava Hosseinpoor, University of Alberta, Edmonton, AB

Karin Huang, University of British Columbia, Vancouver, BC

Anees Hussain, University of Alberta, Edmonton, AB

Harshleen Kamo, Ryerson University, Toronto, ON

Robert Keel, LEA Consulting LTD., Toronto, ON

Rokibul Khan, P.Eng., Alberta Transportation, Edmonton, AB

Kirk Kwan, E.I.T., Alberta Transportation, Red Deer, AB

Anita Kyle, University of British Columbia, Kelowna, BC

Jocelyn Lee, McMaster University, Hamilton, ON

Matthew MacEachern, University of New Brunswick, Fredericton, NB

Peter Mah, Alberta Transportation, Edmonton, AB

Arham Malik, York University, Brampton, ON

Moataz Mohamed, McMaster University, Hamilton, ON

Amr Mohamed, University of Alberta, Edmonton, AB

Gabriella Monagan, University of British Columbia, Vancouver, BC

Sabrena Jahan Ohi, University of Alberta, Edmonton, AB

Michael Piovesana, EXP Services, Brampton, ON

Dawn Prosper, CET, Strathcona County, Sherwood Park, AB

Mohsen Rezaie, Polytechnique Montréal, Montreal, QC

Edward Stubbing, AECOM, Mississauga, ON

Joey Ting, University of Alberta, Edmonton, AB

Tanner Vollema, Watt Consulting Group, Victoria, BC

Robert Xu, University of Alberta, Edmonton, AB

Ali Yazdizadeh, Concordia University, Montreal, QC

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