

# Transportation



## Talk

CANADIAN INSTITUTE OF TRANSPORTATION ENGINEERS MEMBER NEWSLETTER  
Volume 38, Number 2

# Vision Zero

## Gaining Traction in Canada

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FOUNDING MEMBER, *excite*

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In January 2016, Canada adopted a national Vision Zero strategy. Vision Zero is an approach to road safety launched in Sweden in 1997, sharing commonalities with The Netherlands' Sustainable Safety and Australia's Safe Systems approaches. Vision Zero gradually spread to various other countries, including several high-profile U.S. cities and the majority of U.S. states under the name Towards Zero Deaths. As the custodian of Canada's national road safety strategy, the Canadian Council of Motor Transport Administrators (CCMTA) adopted the vision of Towards Zero: Having the safest roads in the world in *Canada's Road Safety Strategy 2025* (CCMTA 2016). The national strategy provides a framework intended to influence road safety policy and action at the territorial, provincial, and municipal levels. As attention for Vision Zero continues to grow across the country, it is important to understand what defines this road safety approach, the resources that are available, and practices that have proven effective in other jurisdictions.

*Continued on page 18...*



CREDIT: DYLAN PASSMORE

# president's ponderings



**JEN MALZER, P.ENG.**  
Canadian District President  
[president@cite7.org](mailto:president@cite7.org)

Dear members,

I hope everyone is enjoying summer! Such a great time in Canada and to enjoy our cities, parks, and festivals. It's great to think about the role we play as transportation professionals in making these experiences safe, accessible, and increasingly multimodal.

This year's conference theme, connecting lifestyles, was very much in keeping with that spirit. I think everyone who attended will reflect on what a great event was held in Kelowna and the incredible volunteer effort that drives our organization. In Kelowna, we welcomed over 300 delegates (a sold out conference!), four parallel tracks with innovative and interactive sessions, fabulous technical tours, and a jam-packed social program. It was a great effort by the Local Arrangements Committee which was, as usual, a mix of first time conference organizers helped by a few seasoned veterans. This year's Committee, led by James Donnelly and Jan Voss, successfully raised the bar and added their own local touches. You will find some favourite moments in the pictures in this edition: the amazing Myra Canyon bike tour, this year's award winners, and yet another exciting traffic bowl competition featuring nine Canadian teams.

I'd also like to congratulate all of this year's award winners and, especially, thank Jan Voss for his very personal acceptance speech for the Burton Memorial award. In particular, he spoke about what he calls TOK or Transfer of Knowledge, and how important that is to our industry. I think this conference was a great opportunity, not only for the transfer of knowledge but also the transfer of opportunity. For the first time, we welcomed to our conference *excite* – a group formed in the fall to give a voice to our emerging members – and Young Professionals in Transportation from Vancouver who led an “unconference.” I had the pleasure of participating and, though I wasn't sure what to expect, it rolled out four areas of conversation in important areas of our industry: infrastructure financing, autonomous vehicles and cities, TDM and safety. It was a great approach to blending new ideas and report back at the end of the session.

The photo on the page opposite is from the conference's women's reception organized by the UBCO student chapter president, Karen Reimann. I was proud to learn we had made ITE history in Kelowna by having women presidents representing each layer of our organization - Student Chapter, Section, District and International. This isn't the first time I've made this kind of history; in 2010, I was the first female president in ITE Southern Alberta's 35 year history. Our reception and many of the stories that were shared over wine is a good reminder of why diversity is important but that it doesn't happen by accident.

# president's ponderings

This year, we were thrilled to welcome Paula Benway and Michael Sanderson, our current ITE president and incoming vice president. They participated in our Board meeting and as keynote speakers at our Tuesday lunch. They both spoke very openly about the need to become a more inclusive organization and to meet the needs of changing mobility and technology trends to remain transportation leaders and an organization of choice. We also welcomed the Transportation Association of Canada to our Board meeting which is a great opportunity to be aligned and to offer them a partner perspective on our joint industry as they update their strategic plan.

Heading into a new year, I am pleased to announce that *excite* is launching a sweepstake to support our student chapters. This year, every practitioner who participates in a student event will be entered into a draw for a free registration to the 2017 ITE AGM in Toronto. Three student members will also win registrations to the Toronto AGM. Winners will be drawn from the names of students who have completed one or more challenges on the sweepstake website. The competition is intended to encourage stronger ties between our students and professionals, and to expand our student programs from mostly conference-related to supporting students with their local section or chapter activities. See page 17 for details.

In closing, I really can't say thank you enough to our volunteers (and our families who give us time away, extended childcare, facetime-celebrated graduations, and postponed milestones) who help us participate in sharing knowledge from city to city via CITE. I have no doubt there will be advances in active modes, safety, and so many of the technical areas we covered in Kelowna.

I am fortunate to be visiting the ITE conference shortly in Anaheim and am excited to learn about the initiatives being launched, particularly the Vision Zero Task Force, and to cheer on the Manitoba Traffic Bowl team. That said, I know I will also miss our conference just a little bit! Next year's conference will be the best of both worlds - a joint CITE and ITE conference in Toronto. Our Toronto committee has been meeting already to welcome us next year and, though we'll miss the lake and Kelowna backdrop, I have no doubt Toronto will show us their best - for us and all of ITE's Districts.

Best wishes,



**JEN MALZER**  
Canadian District President



*The Women in CITE reception in Kelowna was hosted by four female presidents active across all levels of the ITE community (left to right): UBC Okanagan Student Chapter's Karen Reimann, CITE's Jen Malzer, ITE's Paula Flores (Benway), and BC Interior Chapter's Amanda Watson.*

# district director's message

Hi folks!

I hope you are enjoying your summer and the warm weather we have been experiencing.

I'd like to first give a shout out to the exceptional Local Arrangements Committee who organized the very successful CITE Annual Conference in beautiful Kelowna in June. Co-chairs James Donnelly of Urban Systems and Jan Voss of Creative Transportation Solutions, and their dedicated and enthusiastic team of volunteers, put on an exceptional event that attracted more than 300 delegates – a near record for a CITE conference. The technical program was outstanding, the venue magnificent and the weather spectacular. And considering the B.C. Interior Chapter is the smallest Section or Chapter to ever deliver our national event, it's even more amazing. Kudos team on a job well done!

Congratulations to Jan as well on receiving the H. Robert Burton Distinguished Service Award, our organization's highest honour. Throughout his career, Jan has worked tirelessly for CITE and always acted in the organization's best interests. I know this past year has been very challenging for Jan, so I'm extremely pleased to see that he has been recognized for his longstanding service to CITE.

The ITE 2016 Annual Meeting and Exhibit is fast approaching. The event scheduled for August 14 to 17 in Anaheim, CA will offer a glimpse into the future of our fast-changing profession, provide the opportunity to acquire new skills and tools and refresh existing ones, and present a multitude of networking opportunities with colleagues. The International Board of Direction will also be meeting at the conference to advance the business of the organization. There are several new activities planned for the annual meeting this year, so I hope to see you in Anaheim!

Next year, the ITE Annual Meeting and Exhibit will be held in conjunction with the CITE Annual Conference in Toronto. Planning for the event, which is scheduled to run July 30 to August 2, 2017 at the Sheraton Centre hotel, has just got underway with the formation of the Local Arrangements Committee and initial dialogue with ITE Headquarters staff. Planning for the event will ramp up following Anaheim, but all signs point to another great joint meet. Make Toronto your conference choice for 2017!



**GENE CHARTIER,  
M.A.SC., P.ENG.**  
*Canadian District Director*  
[director@cite7.org](mailto:director@cite7.org)

# district director's message

In other news, ITE:

- Plans to release the Transportation Planning Handbook, 4th Edition in August 2016.
- Has commenced development of the 10th Edition of the Trip Generation Manual, with release anticipated in 2017. The new version will provide more information on urban trip generation trends. A call for data is being drafted and is expected to be released in August 2016.
- Continues to increase its social media presence. There are multiple daily posts on Twitter as well as daily posts on ITE's Facebook and LinkedIn accounts.
- Is launching a new initiative to aggressively advance the goals of the Vision Zero and Towards Zero Deaths movements. ITE's initial efforts will focus on large and medium-size cities to support and complement the work of the Vision Zero Network. Through these efforts, ITE is establishing a Vision Zero Task Force.
- Has developed a strategy for creating, maintaining, and executing an updated webinar program, with the goal of delivering two webinars per week.
- Expects to release Traffic Calming and Rural Transition Zone ePrimers by year end.
- Intends to publish Recommended Practice Guidelines for Determining Traffic Signal Change and Clearance Intervals.

LeadershipITE is now accepting applications for the 2017 program. Submissions are due by September 15, 2016. The program continues to receive rave reviews from participants, providing invaluable skills training for practicing professionals aspiring to make a difference in our industry. The Canadian District offers some funding support for participation. Further information about LeadershipITE can be found at <http://www.ite.org/leadership/default.asp>.

Before closing, do you know someone who was an ITE member but has let their membership lapse? The "Rejoin ITE" campaign started in May of this year has already encouraged more than 100 former members to renew their memberships. Please reach out to someone you may know and encourage them to rejoin. ITE HQ has created marketing materials to assist.

If there is anything you want to share about ITE, feel free to drop me an email at [director@cite7.org](mailto:director@cite7.org). See you in Anaheim!



**GENE CHARTIER**  
*Canadian District Director*

# Kelowna 2016 Highlights

Woah! The CITE 2016 Conference held in Kelowna, BC from June 5-8 was a stunning success and your Local Arrangements Committee would like to express their sincere gratitude and thanks to all of our delegates, sponsors, exhibitors, speakers, and volunteers who made it happen! We were blessed with amazing sunny weather, a fantastic technical program, engaging tours, and festive social events.

With over 300 delegates, we created so many memorable moments together including our spectacular bike tour on the Myra Canyon Trestles, another exciting Traffic Bowl, a thrilling street hockey game, and plenty of fun in between. We hope everyone made the most of this opportunity to reconnect with old friends and meet some new ones too.

Again, we extend a big thank you to our amazing Local Arrangements Committee (LAC) for all their hard work pulling together such a great event, to all our generous sponsors who made this event possible, to our speakers, moderators, exhibitors and tour facilitators, and to all our delegates for your passion and participation. We are all left inspired to continue moving our profession forward.

Take care, friends, and we look forward to seeing you all in Toronto!



James Donnelly  
Conference Co-Chairs



Jan Voss



CITE president Jen Malzer presents Recognition of Conference Committee and Chairs Awards to Jan Voss (left) and James Donnelly (right).

## Conference Compendium now available!

Download conference session papers and presentations from [cite7.org/kelowna2016](http://cite7.org/kelowna2016)



Delegates traverse one of the Myra Canyon trestles on the popular bike tour

# TRANSPORTATION CAMP | UNCONFERENCE

**BY CALVIN PIN**

VICE-CHAIR FOR ADMINISTRATION, YPT VANCOUVER

A new type of session, the Unconference, was introduced at the most recent Annual CITE Conference in beautiful Kelowna, BC. Held by Young Professionals in Transportation (YPT) Vancouver in conjunction with CITE, the Unconference session was organized with the goal of providing the perfect platform for attendees who wanted to generate ideas, talk about topics they felt passionate about, or wanted to inspire others in the field of transportation.

The Unconference format created space for peer-to-peer learning, collaboration, and creativity. It consisted of multiple rounds of sessions with different topics, group sizes, and formats which were all proposed and led by the attendees themselves. Participants were free to join and propose any session they were interested in and sessions could take the form of a presentation, group discussion, Q+A, workshop, etc. This format fostered open and engaging conversations about transportation with hot topics such as Autonomous Vehicles, TDM Effectiveness, Transit Facility Design, and Infrastructure Funding emerging during the first session. The second session revolved around topics including Big Data, Transportation Equity, and Master Planning.

Participants were encouraged to move between groups as their interests led them. Both sessions continued vigorously throughout the entire timeslot showing there was great interest in the topics. In some cases, topics changed when the first topic was fully discussed. At the end of each session, attendees presented their findings to the group at large for discussion with the entire room.

A wide range of professionals attended the event including those representing public and private sectors, students and vendors. Some attendees attended both sessions while others dropped in to participate in parts of the sessions.

At the end of the Unconference, organizers received comments from participants indicating that they enjoyed the unconventional format and appreciated the opportunity to have an "informal" discussion of topics that were not addressed elsewhere in the conference program. Participants also appreciated the opportunity to have a more interactive experience than a traditional podium session. Given the very positive reception for the Unconference, YPT Vancouver has reached out to the organizers of the 2017 CITE Annual Conference in Toronto to discuss having an Unconference for that event next year.





INSTITUTE OF TRANSPORTATION ENGINEERS  
TRAFFIC BOWL



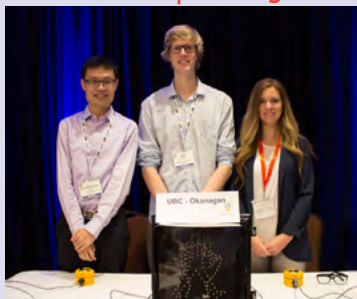
CANADIAN DISTRICT  
COLLEGIATE TRAFFIC BOWL AWARD  
University of Manitoba

NINE TEAMS FROM ACROSS CANADA

University of British  
Columbia | Vancouver



University of British  
Columbia | Okanagan



L-R: Steven Wood, Auja Ominski, Giuseppe Grande

University of Alberta



University of Calgary



University of Waterloo



Mohawk College



University of Toronto



University of New Brunswick





# THE FUTURE OF ITE AND THE TRANSPORTATION PROFESSION

BY DALE BRACEWELL, MASC, PEng

MANAGER OF TRANSPORTATION PLANNING, CITY OF VANCOUVER

Kudos to the Local Arrangements Committee for the 2016 CITE Annual Conference, which offered some new ways of engaging members in Kelowna. When asked to lead a conversation circle about the future of ITE and our profession, I welcomed the opportunity to broaden the dialogue going on currently with ITE International. As a Director on the International Board, I have been participating as the Chair of the Strategic Initiatives Committee. Our task is to help ITE be more forward thinking as an organization and to remain relevant and strategic. To do this, we will carry out a few priority actions in the years ahead.

So, in Kelowna, along with some of my other LeadershipITE graduates, we opted to take our leadership session in the true BC interior style of 'poolside' on the patio deck of the conference centre. All were welcomed into a casual conversation that was guided by a framework of the following questions regarding the future of our profession:

- How best can transportation professionals lead change in our communities?
- Cities are implementing Vision Zero policies at a rapid pace. How do we as professionals make faster and more direct steps towards eliminating fatalities?
- How do we plan for a strong future state of our profession, recognizing the confluence of shifting travel preferences, demographics, and technologies?
- How do we market transportation to professional communities beyond engineering into planning, public engagement, and public realm design?
- How does our profession remain relevant in an increasingly interdisciplinary world? How do we take hold of our profession for the common public good?
- How do we rely less on decades-old traditional engineering guidelines and become transportation professionals who innovate and experiment more?

Throughout the discussion, I attempted to also ask those who joined our conversation circle some more direct questions regarding ITE as an organization ranging from: what is ITE's role in being the lead change agent for the future? Does ITE need to collaborate more and, if yes, with whom? Is ITE diverse enough today?

Perhaps the most interesting and memorable question was regarding people's understanding of whether or not ITE already has a compelling vision. All but our current and future ITE President did not believe we have one or could not share it succinctly with enthusiasm. This spurred more discussion about who we want to attract as future members of the organization. Creating a compelling vision and defining a target audience are clear potential actions to take as a strategic priority for both CITE and the International Board of Direction.

Almost equally as engaging and notable was whether or not you, as an ITE member, could provide a compelling value proposition to a co-worker to join ITE as a transportation professional. While there were some more confident answers to this question, the importance of better understanding the (now completed) member survey and finalizing related branding efforts resonated to almost all as concrete positive action steps to take in the months ahead.

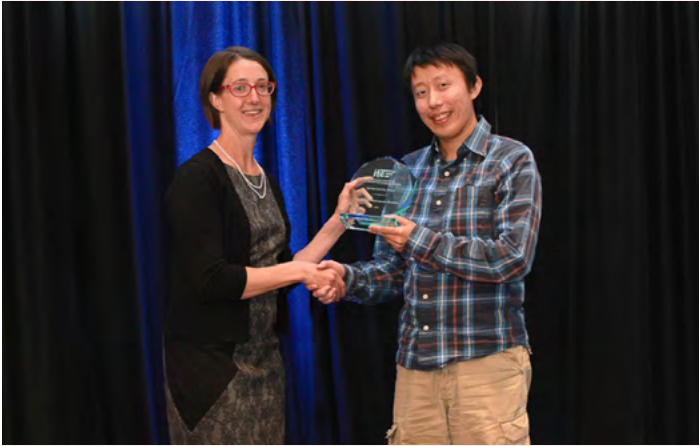
While our conversation circle did not answer the complex question of what to do with automated vehicles in our transportation networks, it did engage us all in a casual way to not coast in autopilot in our transportation careers. Rather, now is the time to reacquaint ourselves with why ITE has a role to play as an organization of choice as we all shape the future of our profession to being one better than today, one poolside deck at a time.



# 2016 CITE AWARD WINNERS

## ACTIVITY AWARDS

### SECTION ACTIVITY AWARD | Greater Vancouver Section



L-R: Jen Malzer (presenting) and Billy Dong

### SECTION ACTIVITY DELTA AWARD | BC Interior Section



L-R: Jen Malzer (presenting) with Amanda Watson and James Donnelly

### STUDENT CHAPTER ACTIVITY AWARD

University of Manitoba



L-R: Amanda Pushka, Steven Wood, Jared Vanderwees, Giuseppe Grande, Auja Ominski, Abby Scaletta, Sarah Klassen, Joel Penner

### STUDENT CHAPTER ACTIVITY DELTA AWARD

University of Alberta



L-R: U of A Chapter Executive – Negar Tavafzadeh Haghi, Kathy Hui, Ai Teng, Yang (Naomi) Li, Yunzhuang Zheng, Matthew Woo



### RECOGNITION OF THE 2016 KELOWNA CONFERENCE LOCAL ARRANGEMENTS COMMITTEE AND CHAIRS

Co-Chairs: James Donnelly and Jan Voss

Committee (Left to Right): Brian Oliveira, Jan Voss, Ian Roth, Gary Vlieg, Ellen Morrison, James Donnelly, Stephen Sargeant, Tom Baumgartner, Raphael Vallarreal, Karen Reimann.  
Missing: Julie Tingate and Gordon Lovegrove

# 2016 CITE AWARD WINNERS

## MEMBER AWARDS



### ITE RISING STAR AWARD

#### Garreth Rempel

Principal,  
MORR Transportation  
Consulting Ltd.

Presenting:  
Jen Malzer



### OUTSTANDING VOLUNTEER

#### Dale Bracewell

Manager, Active  
Transportation,  
City of Vancouver

Presenting:  
Edward Soldo

### H. ROBERT BURTON DISTINGUISHED SERVICE AWARD | Jan Voss

Jan Voss has spent the last 30 years volunteering for CITE to help make it become the professional engineering body that it is today. He has been and continues to be a strong advocate for the transportation engineering profession in Canada.

Jan first joined ITE as a student member in 1986 and was an elected officer of CITE for 12 years. Some of his contributions to CITE and ITE include:

- organizing over a dozen conferences at the international, national and regional levels.
- spearheading the development and management of CITE's second technical project, *A Technical Review of Pedestrian Signals in Canada*.
- developing the concept and proposal for a *Canadian Coordinating Council*, which would later become the *CITE Technical Liaison Committee*.
- expanding the PTOE program in BC to be the leading province in Canada.
- membership as one of two Canadian representatives on the ITE Transportation Advisory Committee which oversaw the development of the 2nd edition of the ITE Manual of Transportation Studies.
- organizing the annual ITE Greater Vancouver Section fundraising golf tournament for 10 years, which has raised thousands of dollars for student scholarships and programs.
- membership on the CITE Financial Review Committee (FRC).

He was the recipient of the 2004 BC Transportation Professional of the Year Award, awarded by the Greater Vancouver ITE Section, and was the recipient of the 2010 CITE Volunteer of the Year Award.

Jan's award winning company, Creative Transportation Solutions Ltd., has grown into one of the largest independent traffic engineering consulting firms in Western Canada and is celebrating its 23<sup>rd</sup> anniversary this year. He is the first registered traffic engineer in the Northwest Territories and Nunavut and continues to promote good engineering practices and road safety for northern communities.

He continues to be a mentor to members of both the Greater Vancouver Section since 1991 and the BC Interior Chapter since it was founded in 1996.



Presenting: Edward Soldo

# 2016 CITE AWARD WINNERS

## STUDENT AWARDS

### JOHN VARDON MEMORIAL SCHOLARSHIP

Giuseppe Grande, University of Manitoba



Presenting: Edward Soldo

### CITE WSP UNDERGRADUATE SCHOLARSHIP

Amanda Pushka, University of Manitoba



Presenting: Jen Malzer

### CITE BOULEVARD TRANSPORTATION "TRANSPORTATION IN A SUSTAINABLE WORLD" STUDENT AWARD

Victor Douglas Ngo, University of British Columbia



Presenting: Mike Skene

### CANADIAN CAPACITY GUIDE COMPETITION AWARD

Gabriel Wolofsky, University of Toronto



Presenting: Bruce Belmore

### DR. MICHEL VAN AERDE MEMORIAL SCHOLARSHIP

Hamed Shahrokhi Shahraki, University of Waterloo

Photo unavailable

### STUDENT PRESENTATION COMPETITION

Sabrina Moore & Will Montforton,  
University of British Columbia | Okanagan

Photo unavailable

# 2016 CITE AWARD WINNERS

## STUDENT AWARDS

### STUDENT PAPER COMPETITION

Caitlin Sowers, University of New Brunswick



*Presenting: David Thatcher*

### **POINT TO POINT CAMERAS – A BENEFICIAL SAFETY MEASURE IN REDUCING SPEED-RELATED COLLISIONS**

**Caitlin Sowers, B.Sc.Civil Engineering  
University of New Brunswick**

#### **Abstract**

Point-to-point speed cameras measure the average speed of vehicles over long distances. Point-to-point (P2P) speed cameras have been implemented in a number of countries as a means to decrease speed related collisions. Their implementation has shown reductions in fatal and serious-injury speed-related crashes, where there were previously historically high crash rates. P2P systems have been shown to reduce average/mean vehicle speeds, 85th percentile speeds, the proportion of speeding vehicles, and speed variability. P2P implementation has resulted in a 65%, 55%, 37% and 19% collision reduction in England, Australia, Scotland, and Italy respectively [5, 7, 8,]. The homogenised traffic flow provided by P2P speed cameras has resulted in reduced collisions, fuel consumption and traffic emissions. Operational recommendations including site location requirements, system requirements, legal requirements, and maintenance are discussed. Speed-enforcement technologies are often met with an adverse public reaction as speeding enforcement is perceived as a revenue tool, instead of a safety measure. Public education and transparency within P2P implementation is a crucial aspect of its success. An overview of the benefits of P2P systems and successful implementation is discussed.

#### **Did you know?**

Complete copies of current and past winning student papers are available on the [CITE Scholarships and Awards webpage](#)

# SNAPSHOTS FROM KELOWNA

## WELCOMING RECEPTION



L-R: Julie Tingate, Eric Zhenyuan, Karen Reimann, Jen Malzer, James Donnelly



L-R: Gabriel Wolofsky, Gary Vlieg, Tom Baumgartner



The 2016 Conference in Kelowna kicked off with the Sunday evening Welcome Reception.



## WOMEN IN CITE RECEPTION



Thumbs up for the Women in CITE reception, hosted by influential women from all levels of ITE: CITE President Jen Malzer, UBC Okanagan Student Chapter President Karen Reimann, ITE President Paula Flores (Benway), and BC Interior Chapter President Amanda Watson.



## STREET HOCKEY CHALLENGE



Much of the action in Kelowna took place during the annual Street Hockey Game on Monday evening, which likely broke the record as the hottest game in CITE history!



What an amazing turnout for the Annual Street Hockey Challenge with east vs. west playing it off!

# SNAPSHOTS FROM KELOWNA

## MYRA CANYON TRESTLES CYCLING TOUR



Delegates took in the impressive Myra Canyon railway trestles and tunnels carved out of the mountains on the Sunday bike tour prior to the conference kick-off.

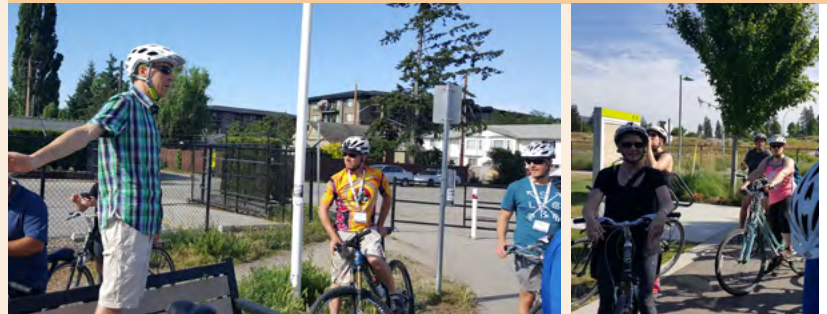


## FLOATING BRIDGE TOUR



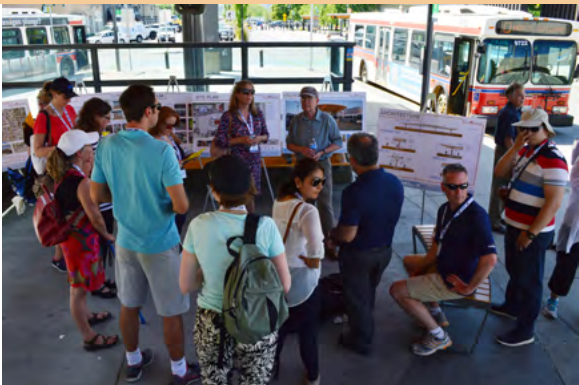
Participants took in a tour of the William R. Bennett Bridge, which provides the only crossing over Okanagan Lake.

## URBAN CYCLING TOUR



Setting up for the urban bike tour on some of Kelowna's newest and coolest multi-use pathways!

## DOWNTOWN WALKING TOUR



Delegates took a tour of the brand new Queensway Transit Exchange in downtown Kelowna.



The Urban Braille Tour allowed delegates the opportunity to experience walking with a vision impairment through Kelowna's revitalized downtown streets.

# SNAPSHOTS FROM KELOWNA



Delegates enjoy an early morning lakeside run with beautiful views of the Okanagan Valley



Connecting with friends both old and new at the Tuesday night mixer at BNA Brewery



The BC Ministry of Transportation sent a large delegation to CITE. Thanks for coming!



L-R: Anna Bauditz, Paula Flores (Benway), and Janelle Willis



Getting ready for Traffic Bowl on Monday morning



Height makes no difference at CITE!  
L-R: Gary Vlieg, Ellen Morrison, John Rozema



L-R: John Babineau, Faisal Siddiqui, Sumit Bhasin



# SAVE THE DATE

## ITE 2017 Annual Meeting & Exhibit

July 30 – August 2, 2017  
Sheraton City Centre  
Toronto, Ontario  
Canada

in conjunction with the  
Canadian Institute of Transportation Engineers (CITE)  
Annual Conference



A Community of Transportation Professionals



## WIN YOUR REGISTRATION!



For details, check out  
the *Student Events  
Sweepstakes* section on  
the **excite** website:  
[cite7.org/excite](http://cite7.org/excite)

### CALLING ALL STUDENT CHAPTER MEMBERS!

How well do you know the CITE professionals in your local area? From now until March 15, 2017, you could win one of three free registrations to the 2017 ITE Annual General Meeting in Toronto by completing a variety of challenges to connect with more local professionals:

- Hosting a local professional to present at a student event;
- A group of six or more students attending a professional section event together;
- Organizing a local technical tour and inviting the local professional chapter;
- Adding your event to the CITE events calendar;
- and more!

### PROFESSIONALS CAN WIN TOO!

Are you a professional who wants to support your local student chapter? You can also earn an entry to win a free conference registration by presenting at or participating in a student chapter event.



CREDIT: FLICKR - DMITRY GUDKOV

...continued from page 1

Residents in New York rally for slower speed limits under the Vision Zero banner

**Vision Zero reconceptualises the road safety problem and solution.** It shifts away from the historic perspective that road safety is a problem of human error and that the solution lies in correction of those errors, primarily through education. From distracted driving, to driving under the influence of alcohol, to riding a bike while playing Pokémon Go, road users will make mistakes and choose not to follow the rules, even if they are well-trained. Simply stated by Sweden's Vision Zero ambassadors, "In every situation a person might fail. The road system should not." In a Vision Zero approach, transport system providers are responsible for ensuring that the outcomes of human fallibility are not severe enough to result in death or injury. The human tolerance to physical force becomes the primary measure in the design of a transportation network, where designers seek to limit the force expended in a collision so that it does not exceed that which is tolerable by a human being.

## In every situation a person might fail. The road system should not.

Vision Zero recognizes that road fatalities are preventable and can be addressed through a proactive approach, similar to other health epidemics. The rationale for Vision Zero is

that because road fatalities are preventable, no amount of lives lost is acceptable. **The solution lies in a systems approach involving multidisciplinary collaboration and public engagement.** The safe systems approach has been successfully implemented in other transport sectors, like rail and air. Common depictions of the safe systems approach are shown in Figures 1 and 2. The Swiss cheese model illustrates holes as latent errors and dangerous actions in the various aspects of the road safety system. A road fatality or injury occurs when there is sufficient alignment between the holes in each layer. Severe collisions are prevented by strengthening all parts of the system so that these holes do not align. Multidisciplinary stakeholder committees or task forces are a common component of Vision Zero programs, often including representatives from engineering, planning, public health, transit, enforcement, emergency services, civil society, educators, and many others. Multidisciplinary collaboration is not a new concept, although Vision Zero aims to include many other groups and perspectives. For example, British Columbia's Road Safety Strategy engaged over 40 organizations within and external to government, at the national, provincial, and municipal levels, from public and private sectors of a variety of disciplines.

A common challenge faced by jurisdictions in adopting Vision Zero has been gaining support from the public and

other stakeholders, who believe the aspirational vision of eliminating all road deaths and injuries is too aggressive and unachievable (Milligan and Peterniak 2015). On the other hand, the City of Toronto recently received public feedback to the contrary, where it was felt that the timeline, budget, and targets set in the new Road Safety Plan were not aggressive enough in relation to the vision of eliminating all road fatalities and serious injuries. Communication strategies related to fostering a road safety culture and gaining input and support for Vision Zero initiatives help to move policy forward. Political support is also important, as demonstrated in New York City's highly publicised Vision Zero program which was launched as part of Mayor Bill de Blasio's political platform.

**Vision Zero emphasises the need to make data-driven decisions.** This approach often requires strengthening and linking road safety data sources, monitoring and evaluating the right indicators, and supplementing reactive road safety measures with proactive and predictive measures. Historic road safety analysis has been geared toward collision reduction, whereas Vision Zero is geared toward injury prevention. Police-reported collisions are the most-common road safety data source. Although this data can provide valuable insights into the road safety problem, it is not sufficient for a complete safe systems analysis as it is focused on causal factors most apparent to the investigating party at the time of the collision, generally to assign fault. Linking collision data with hospital records, for example, provides a more complete picture of the problem. The City of Vancouver is currently undertaking an initiative to strengthen and link

road safety injury data prior to including injury elimination as part of their Vision Zero strategy. The City of Ottawa undertook an in-depth analysis of fatal collisions, drawing on multiple data sources, as part of their Towards Zero safety program. This effort identified distinct causal factors, allowing the City to develop responsive, targeted programs.

Fatalities and injuries are a direct outcome measure of road safety and, for that reason, they are one of the best indicators to use in monitoring and evaluating road safety performance and benchmarking Vision Zero progress. However, observed collisions are a reactive road safety measure, meaning that road safety interventions and decisions can only be made after individuals are killed or injured. Using safety surrogates and predictive analytics are two strategies for overcoming this issue. Historic collision and other transportation data can be used to develop predictive models used to forecast the safety performance of different road designs and treatment options prior to installation. Safety surrogates, such as conflicts or near misses, can provide an in-depth understanding of the road safety problem from which

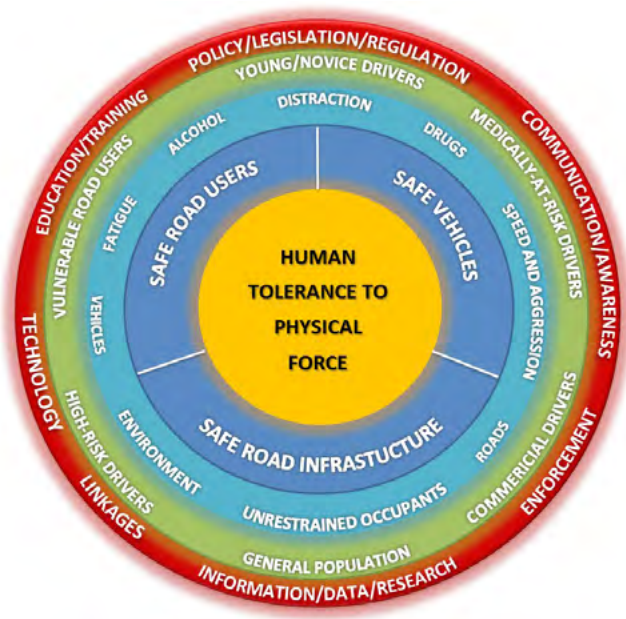
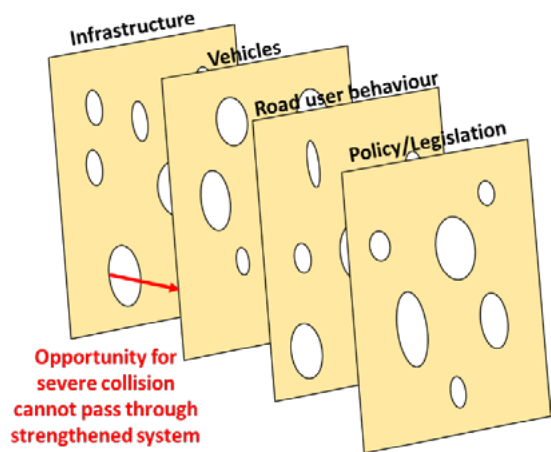


Figure 1: Safe Systems Approach

SOURCE: CCMTA 2016



SOURCE: ADAPTED FROM J. REASON AND F. WEGMAN

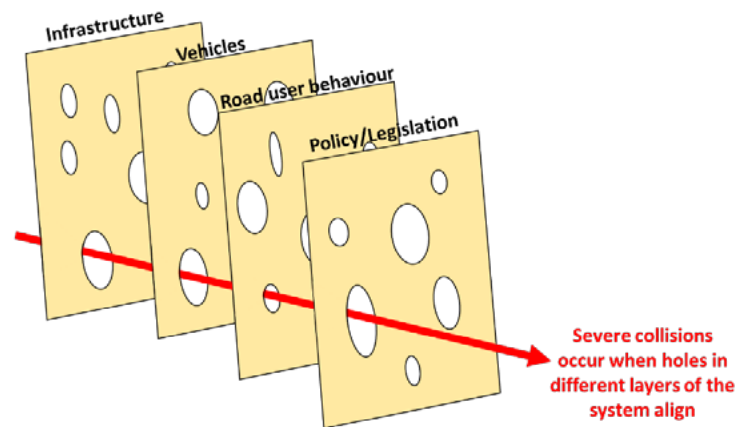


Figure 2: Safe Systems Approach, Swiss Cheese model

decisions can be made prior to the occurrence of severe collisions. Canadian researchers continue to innovate and lead at an international level in the field of video-based conflict analytics. Additionally, future advancements in Big Data analysis may allow for improved road safety decision-making in real-time.

**Alterations to funding, budget allocation, and complementary business processes take Vision Zero from policy to action.** Early critics of Vision Zero highlighted a potential moral dilemma related to the allocation of financial resources required to achieve the vision. Critics believed that the funding required to end all road deaths was an inefficient allocation of money from an overall public health perspective and that the Vision Zero approach could potentially result in increased overall deaths by pulling available funding away from other important health issues (Elvik 1999). Although there have been cases where road safety budgets received new or expanded funding at the onset of Vision Zero, such as in New York City, this is not considered necessary for successful adoption. In practical applications of Vision Zero, jurisdictions work within the realities of budget constraints to allocate road safety funding through data-driven and collaborative programs. Common budget allocation characteristics in Vision Zero jurisdictions include: (1) data-driven treatments emphasize obtaining value for money and are directed toward fatal and injury prevention, not collision reduction; (2) ownership-based silos that may prevent efficient funding allocation are removed (e.g., a stakeholder may transfer funds to another party where a better return on investment is expected); (3) sustainable funding channels are built through defined programs for systemic application of proven treatments and are likely to get renewed in annual budget allocations as long as they continue to be effective (e.g., systemic rumble strip program); (4) other barriers to funding are removed when they make sense (e.g., no

cumbersome business case submission required to obtain funding for a predefined set of low-cost, highly-effective treatments); and (5) programs are monitored and evaluated, and can be cut or altered if they are not achieving anticipated safety outcomes.

**There is a need for additional education, training, and peer exchange among road safety professionals in Canada.** This need has recently been documented by a subcommittee of the Road Safety Standing Committee (RSSC) of the Transportation Association of Canada (TAC), tasked with investigating a potential road safety professional certification for Canada (Izadpanah, et al. 2016, Regehr, et al. 2014). "A road safety professional is a professional that during a typical work day makes decisions that directly or indirectly impact the future frequency and severity of traffic collisions and knows how to explicitly consider (and quantify, when possible) and reduce negative safety impacts" (Izadpanah, et al. 2016). Individuals who identify with this definition should be well-informed on the broadening scope of the field, the safe systems approach, and the science of road safety, as detailed in the AASHTO Highway Safety Manual. A study seeking to document Vision Zero adoption in Canada through a survey with 21 Canadian government transportation agencies found that 62% of respondents reported having never heard of Vision Zero or having a basic understanding of some of the principles (Paterniak, et al. 2016). The TAC RSSC subcommittee found that more than 95% of surveyed transportation professionals were interested in obtaining additional training in road safety, and 68% of respondents from engineering and non-engineering road safety sectors were interested in obtaining a road safety professional certification (Izadpanah, et al. 2016). This certification is currently under development by the Transportation Professional Certification Board, in collaboration with the TAC RSSC and other stakeholders.



The City of Ottawa was the first jurisdiction in Canada to adopt a Towards Zero statement in 2011. The Safer Roads Ottawa Program delivers the road safety strategy through a partnership between Ottawa Fire Service, Paramedic Service, Police Service, Public Health, and Public Works.

Conferences and technical societies can help fill the gap in the need for additional education and training, by providing forums for peer exchange and offering professional development opportunities. **Several Canadian organizations provide resources and opportunities to share road safety information**, including:

- CITE held a Vision Zero World Café at the [2016 Annual Conference in Kelowna](#). Participants heard from three speakers on Vision Zero and innovative treatments. They then met in small groups to develop Vision Zero initiatives targeted at common urban and rural safety issues. One group identified the need to strengthen and link road safety data as a first step in adopting Vision Zero, while a second group tackled barriers to implementing Fused Grids in Canada, an integrated road network layout and land use planning approach.
- The Transportation Association of Canada (TAC) marked the midpoint in the Decade of Action for Road Safety with a [road safety themed annual conference](#) in 2015 that included multiple relevant sessions and a keynote from Sweden's Vision Zero Academy.
- [Parachute Canada](#) hosted a lecture in Toronto in 2015 with the same speaker from the Vision Zero Academy and published several resources on their website.
- [Edmonton's 8th International Conference on URBAN Traffic Safety](#) was held in April 2016 and had a Towards Vision Zero theme, featuring presentations and a workshop on the topic. The conference also engaged the community through a walk/run/ride in support of Vision Zero.

- In addition to publishing Canada's National Road Safety Strategy 2025, CCMTA developed a comprehensive, evidence-based [countermeasure database](#) on their website which spans urban and rural facilities and a variety of road safety disciplines.
- The [Canadian Association of Road Safety Professionals](#) has been a multidisciplinary membership-based road safety association for the past 30 years, publishing and featuring road safety news and innovations, and providing forums for knowledge sharing and networking through their annual conference and online community.

**Valuable Vision Zero resources outside of Canada** include [Sweden's Vision Zero Academy](#), the Transportation Research Board's [Vision Towards Zero Deaths Working Committee](#), the U.S.-based [Vision Zero Network](#), and in time, ITE's new [Vision Zero Task Force](#).

Vision Zero is still in its infancy in Canada, currently most apparent at the policy level. As traction continues to grow, it is important to understand what defines this road safety approach so that it can be captured in new adoptions. What Vision Zero looks like in practice in Canada is still developing. Programs will need to be flexible and responsive to changes in the industry, such as the legalization of marijuana and the growth of automated and connected vehicles and infrastructure. Sharing and documenting best practices can help advance progress toward the aspirational vision of eliminating road injuries and fatalities in Canada.

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## WHAT IS *excite*?

*excite* is a new initiative formed to help people get involved in CITE and develop in their profession. *excite* is designed to help you find the resources, opportunities, mentorship, and activities you are looking for as part of your career in transportation and membership in CITE.

## IS *excite* FOR YOU?

*excite* is where you come to help find your place within CITE and the transportation profession. Whether you are a student, new grad, early in your career or just getting involved in CITE this is the starting point for you.

## LAUNCH PARTY IN KELOWNA!

On the first day of the 2016 Conference in Kelowna, *excite* kicked off with a great panel and breakout session. We talked about what *excite* is, the different paths that have led to CITE involvement, and the benefits of getting involved.

We then broke out into groups to discuss: what type of events would be most interesting; how the mentorship program should run; how *excite* should reach out to members and potential members; and, what sort of knowledge sharing and innovation projects *excite* should pursue.

## HOW DO YOU GET INVOLVED?

It's easy! Just send us a note to [excite@cite7.org](mailto:excite@cite7.org) or visit the website [cite7.org/excite](http://cite7.org/excite).



CREDIT: DELTA HOTELS



CREDIT: BNA BREWING CO.



CREDIT: PROVINCE OF BRITISH COLUMBIA



## TLC Survey to Identify New Project

The Technical Liaison Committee (TLC) is responsible for technical initiatives for CITE and is currently involved in a number of technical projects on behalf of the organization. The TLC would like to initiate a new technical project and we want your input to help pick the topic.

The TLC conducted a survey of attendees at the recent CITE Conference in Kelowna in June. A paper survey was included with every registration package handed out to delegates. A total of 113 completed surveys were submitted, over 35 percent of all attendees. Thank you to everyone who took the time to complete and hand in a survey at the conference.

The survey asked attendees to rank their top 3 areas of interest for a new TLC project, and also requested specific project ideas or topics. The following topics were ranked as the top 5 areas of interest for survey respondents:

**Tied for 1st Place:** Autonomous/Connected Vehicles and Safety & Vulnerable Users (both ranked by 38% of respondents)

**3rd Place:** Active Modes (ranked by 35% of respondents)

**4th Place:** Multi Modal Level of Service (ranked by 30% of respondents)

**5th Place:** Complete Streets (ranked by 29% of respondents)

Now that we have narrowed down the most popular areas of interest, we want to hear from the CITE membership and get your help to determine the next project for the TLC. Look for an online survey this fall that will ask you to vote on specific project topics based on the above rankings. Make sure to vote for your favourite project idea. Have a great summer!

## JAMES DONNELLY



### Professional designations

Professional Engineer (P.Eng.) in BC, Alberta, and Saskatchewan  
Professional Traffic Operations Engineer (PTOE)

### Education

University of New Brunswick, Bachelor of Science in Engineering (2000)

### First job in transportation engineering

Transportation Engineer – Urbitran/Garmen in New York/New Jersey, USA

### Current employment

Sr. Transportation Engineer / Principal – Urban Systems Ltd.

### Family

Married – Julie; Children – Sarah (7) and Miles (5)

### Current city of residence

Kelowna, BC

### Personal hobbies

Downhill skiing, biking, reading, Ultimate Frisbee

### What roles/positions have you taken on as a member of CITE?

- Vice President / President – BC Interior Chapter of ITE
- Co-Chair – 2016 CITE Annual Meeting and Conference in Kelowna, BC

### CITE INVOLVEMENT

**When did you first attend a CITE event? Do you remember what it was?**

2008 CITE Annual Meeting and Conference in Victoria, BC

**What is your CITE involvement (past and present)?**

With a few others, I helped “re-start” the BC Interior Chapter of ITE and have served on that executive for nearly a decade now. I’ve helped organize many local events and in particular a few in partnership with our local Planning Institute of BC chapter. This has all culminated in co-chairing (with Jan Voss) the 2016 conference in Kelowna, BC. I’m Looking forward to representing CITE on TAC’s Traffic Operations and Management Standing Committee (TOMSC) in 2017.

**What do you value most about your CITE membership?**

CITE is fun and collegial. We’re not bogged down by too many responsibilities, so CITE is really about its members and what we make of it.

### PROFESSIONAL EXPERIENCE/ACHIEVEMENTS

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

When I started my career I worked mostly in transportation modelling and forecasting, so I’d tell people that my job was “to predict the future”. Now I’d tell people that my job is to help communities be safer, easier, healthier and more enjoyable for people to get around.

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

I enjoy how diverse our work can be. It can be very technical and detailed, while also requiring you to be creative and strategic. I love working on a great team and having our impromptu conversations about how to work through a particular issue or challenge.

More and more my work is focused on taking care of our business and in particular growing and developing a great team. It is a new and engaging challenge.



During your career to date, have you pursued any professional designations through ITE (such as PTOE), and describe why? If no, do you plan to in the future (and why)?

I have my PTOE. As a consultant and with a civil engineering degree it is a good way to differentiate yourself toward transportation.

Please describe what attracted you to transportation engineering?

I liked that transportation was about people. I liked the challenge of trying to figure out why people made the choices that they do and combining that with the more technical side of our work. It's neat that you need to know a little about everything (physics, statistics, construction, psychology, economics, communication, politics, etc.).

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

I've done this recently! Our profession is a great way to make a tangible difference in your community and to help address the challenges and issues people deal with every day.

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

I hope I've made a positive difference in all the communities that I've worked. That I've helped a number of people grow and thrive in their own careers. That I've helped make Urban Systems an even better place to work.

What is the first thing people most commonly ask or say when they find out you are a transportation or traffic engineer/professional?

Why can't you fix the timing of the traffic lights at \_\_\_\_\_?

## GETTING TO KNOW YOU

If you did not pursue engineering as a career choice, did you have another career in mind?

Growing up, I always wanted to be a veterinarian or a pilot.

Have you ever met anyone you consider famous?

I have a habit of meeting famous people but not realizing who they are. As a teenager visiting New York, my parents let me wait by the backdoor to the Late Show with David Letterman. Eventually this man in a green suit came out and the small crowd outside went crazy. He was signing autographs, but I didn't have anything for him to sign (and

I didn't know who he was) so I just stuck out my hand. He shook it and asked my name and where I was from. Afterwards I asked the guy next to me who he was... "That was PETER GABRIEL!!!"

More recently I met Jillian Harris (of TV's "the Bachelorette" and "Love it or List it"). She asked me to take some picture of her and a friend on the street outside my office. I thought it was strange that she wanted so many pictures. She said it was for her blog about fashion and design. I was clueless until a colleague pointed out who I had been talking to.

What is the last book that you read or are currently reading?

Currently reading *Benjamin Franklin – An American Life* by Walter Isaacson.

## INTERESTS & PERSPECTIVES

Who has had the greatest influence on your life and career?

In life, my parents for sure. They showed me that you could work hard and make your own success in life. They moved all over to make things better for my sister and I (my mom was from Trinidad & Tobago and my dad from Montreal – they lived in Ottawa, England, and Edmonton before landing in New Brunswick). They made sure I got a great education (my dad was a history professor). They both passed away unexpectedly in 2012 and 2014. While their time came far too soon, I think they'd be happy to see me doing well and knowing that they set me on the right track.

In my career, I suppose Eric Hildebrand at the University of New Brunswick set me off in this field. He sparked my interest in transportation and also helped me get my first job at Urbitran/Garmen in NY/NJ. Thanks Eric!

What is the greatest opportunity you see for the field?

There is so much change and innovation in our field these days from new thinking about what makes great streets, to generational changes in attitudes about car ownership, new technologies, and ambitious goals (like Vision Zero). We have a great opportunity to be at the forefront of this change, to apply our knowledge, and take it from vision to reality.

## GREATER VANCOUVER SECTION

The Greater Vancouver Section of ITE has had an excellent few months with three events happening and an award win.

The first event was a lunch meeting held on April 28th. Floris van Weelderden, Manager of Transportation Planning at MMM Group/WSP in Vancouver, provided a presentation on solid waste management practices and how they affect building design from the perspective of the transportation professional. This presentation gave members another look at the transportation industry and how their design can affect more than just the typical drivers on a roadway.

On May 26th, Alex Bigazzi from the University of British Columbia provided members with a presentation on air pollution uptake by active travellers. This presentation focused mainly on the pollution risks for active travellers based on several recent studies on traffic-

related air pollution uptake by cyclists. The presentation also provided guidance on pollution-conscious bicycle and pedestrian network design.

From June 5-8, several GVITE members attended the CITE Annual Conference in Kelowna, BC, including four executive members. The conference was hosted by the BC Interior chapter and everything went fantastically. The three days of programming included interesting presentations, technical tours, and social events. We are pleased to say that at the awards presentation, GVITE was the recipient of the CITE Section Activities Award for the second consecutive year!

The section is on summer break until September when section meetings will start up again along with the GVITE annual golf tournament.



*Left: GVITE President Billy Dong with Floris van Weelderden at the April lunch meeting*

*Middle: Alex Bigazzi presentation*

*Right: GVITE members accept the CITE Section Activities Award two years in a row*

## NORTHERN ALBERTA SECTION

### Luncheons

We finished our 2016 luncheons with four great presentations. In February, Stephanie Mah from the City of Edmonton presented on the effects of a free bus program on the travel behaviour of older adults. In March, Sarah Feldman also from the City of Edmonton presented on the City's Transit Strategy progress. In April, we hosted our joint luncheon with APPI where Tim Barton from Bunt & Associates in Vancouver joined a sell-out crowd to discuss challenges with forecasting travel demand for TOD areas. Finally, in May, we wrapped up the season with a presentation from Adam Laughlin, the leader of the City of Edmonton's new Integrated Infrastructure Services department.

### Student-Industry Mixer with University of Alberta

In March, we partnered with the University of Alberta ITE Student Chapter to host their first ever Student-Industry Mixer. The evening was a huge success with representatives from the public and private sectors across the Edmonton Region. We look forward to this event again in 2017.

The poster features a cityscape at night. Text on the poster includes: 'ITE STUDENT INDUSTRY MIXER', 'TUESDAY, MARCH 8, 2016', '4:30 - 6 PM, ETLIC SOLARIUM', 'Registration @ 4:15 pm', 'Short Presentations @ 4:30 pm', 'RSVP @ www.facebook.com/ITEualberta', 'Come network with transportation professionals from the Edmonton area and learn more about the transportation engineering industry. Food and refreshments will be provided.' At the bottom, it lists sponsors: 'SPONSORED BY: MMM GROUP, IBI, DUZLE, C-TIP, ISL Engineering and Land Services, A-Terra' and 'NOT FOR PROFIT ATTENDEES: City of Edmonton, STATE OF ALBERTA'. It is also noted as 'HOSTED BY: NORTHERN ALBERTA CHAPTER &amp; UALBERTA STUDENT CHAPTER'.

*Continued on page 36...*



*Top & Middle: Students and professionals mingle at the University of Alberta chapter's first ever Student-Industry Mixer*



## **Mentorship Program with University of Alberta**

In late April, the UofA ITE Student Chapter launched a mentorship program linking volunteer members of the NACITE section to UofA transportation engineering students. Mentors and mentees continue to meet throughout the summer of 2016 based on their own arranged goals. The mentorship program will wrap-up in fall of 2016 and we look forward to reporting back on the success.



## **Streets for People 2016: A Walkability Symposium**

NACITE partnered with APPI and the City of Edmonton to host a walkability symposium on April 27th at the Sutton Place Hotel. Jeff Speck, the keynote speaker, filled the morning with inspiring words on walkability. The afternoon consisted of several active workshops looking at various aspects of walkability in Edmonton. A very big thank you to ISL Engineering and Land Services for sponsoring the social event at the end of the day.

## **LETHBRIDGE CHAPTER**

The first half of 2016 has been an eventful one for the ITE Lethbridge Chapter.

In February, attendees participated in the ITE webinar, Streetscape Level Changes: Protected Bike Lanes presented by Becka Roof and Colin Quinn-Hurst of Salt Lake City, Utah. The webinar discussed the challenges of constructing separated bike lanes in an urban corridor in Salt Lake City and provided an overview of context-sensitive design decisions, the public outreach and consultation process, funding mechanisms, and measures taken to assess the economic impact of the project.

In March, attendees participated in the PBIC (Pedestrian and Bicycle Information Centre) webinar, What the U.S. (and Canada) can learn from international efforts to improve pedestrian and bicycle safety, which was presented by Hana Maier, Libby Thomas and Conor Semler. The webinar was based on an Federal Highway Administration (FHWA) report, Delivering Safe,

Comfortable, and Connected Pedestrian and Bicycle Networks: A Review of International Practices.

The Chapter's April luncheon was well attended. Yeatland Wong, Senior ITS Engineer at the City of Calgary, provided an overview of innovative technologies that Calgary has piloted in the past several years, including intelligent signal controllers, wireless magnetometers, vehicle detection with fish eye lens cameras, and wireless communications via streetlights. In addition, Yeatland discussed how strategic planning can help us better prepare for future technologies such as autonomous vehicles.

Prior to breaking for the summer, the chapter met for a luncheon where Andrew Malcolm, Community Planner at the City of Lethbridge, shared a planning-specific perspective on recent transportation projects within the City of Lethbridge, and provided an overview of next-generation transportation strategies that will play a key role in creating livable and sustainable cities of the future.

## MANITOBA SECTION

The Manitoba Section hummed along in Spring 2016. In April, Rebecca Peterniak from Fireseeds North Infrastructure gave a presentation about Vision Zero, an international approach to road safety characterized by aggressive casualty and injury reduction goals, coordinated and multidisciplinary action, and an increased priority and resources allocated toward road safety improvement. Vision Zero was launched by Sweden in 1997 and gradually spread to other countries and states.

May saw a presentation from Dr. Garreth Rempel, with MORR Transportation Consulting Ltd. Garreth presented on new methods for collecting travel time and reliability data, which are critical components of transportation system performance and becoming increasingly important for quantifying congestion. Data sources such as GPS, Bluetooth, Wi-Fi, and cellular networks offer significant improvements over traditional methods and are becoming feasible options for collecting travel time data.

Garreth later won the 2016 ITE Rising Star Award at the CITE conference in Kelowna! Many other ITE Manitoba members were there, making presentations, or participating on the Technical Liason Committee. Of course, some socializing was squeezed in there too.

The section has been using the Roundtable Restaurant in south Winnipeg for a few years, but this is likely to change

when we reconvene in the fall as the location is being revamped. The section has been surveyed by the Executive to help select a new venue, and that will be announced before our next get together after the September Golf Tournament.



Registration is now open for the annual golf tournament, which we host with the University of Manitoba Student Section. Info can be found here: [www.iteumanitoba.ca](http://www.iteumanitoba.ca)

Other future events are posted on the ITE Manitoba website, so please check out what's coming up at <https://itemanitoba.wordpress.com/>.

## HAMILTON SECTION

At a March 29 Technical Speaker Luncheon, Saidur Rahman, Ph. D., P. Eng. did a talk on the Consequences of Climate Change on Transportation Infrastructure. Saidur is Senior Infrastructure Project Manager with the Town of Oakville and an Adjunct Professor at Ryerson University. Various aspects of climate change related impacts, adaptive measures, risk mitigation, and engineering practices for cost effective maintenance and service level improvement were presented along with an exploration of innovations from a local to global perspective that provide insight into climate change and its impact on transportation infrastructure.

*Continued on page 29...*



*Left: Saidur Rahman on climate change and infrastructure. Right: Peter Topalovic on the City of Hamilton's bike share.*



On June 23 the Hamilton and area section held its AGM along with a technical presentation luncheon.

Peter Topalovic, M.Eng. Project Manager – Sustainable Mobility Programs provided a presentation titled the City of Hamilton’s Bike Share: Data, Culture Change and its Impact on Modal Shift. Hamilton’s bike share system turned 1-year-old on March 20th, 2016, and as one of the largest “Smart Bike” systems in North America, there is much interest in how it performed and how it differs from other “Smart Dock” systems. The presentation delved into the details of Smart Bikes and the data that they can provide to operators and to municipalities. This data can be used to plan new infrastructure and identify gaps in existing infrastructure; ultimately resulting in a transportation system that provides better and safer choices to bridge the first/last mile to transit more effectively and to provide alternative on-demand modes altogether. Peter and his team implemented a 750 bike, 115 station system; the largest next generation “smart bike” program in North America.

The section’s AGM also took place. Treasurer Brian Appleby provided an overview of the 2015 financial report. In addition, a new section executive was elected and sworn



*The new Hamilton Section executive with Gene Chartier, ITE District 7 Director*

in by Gene Chartier, CITE District Director (rightmost in photo).

The 2016 to 2018 Hamilton and area section executive (left to right in photo) is as follows.

- Matthew Bilodeau – Secretary
- Sean Nix – Student Liaison
- Brian Applebee – Vice President
- Manoj Dilwaria – President
- Rob Merritt – Technical Liaison
- David Wong – Past President
- Sheeba Vasudevan – Treasurer

## TORONTO SECTION

### Traffic Bowl Trivia Night | Thursday, May 26, 2016

On Thursday, May 26th, the University of Toronto ITE Student Chapter (UT-ITE) hosted its 3rd annual inter-chapter Traffic Bowl prep session. Students from U of T, Mohawk College, Ryerson University, McMaster University and University of Waterloo met at U of T for an evening of transportation trivia and socialising. Members of previous U of T’s traffic bowl teams were on hand to test and prepare this year’s teams.

### Spring Luncheon | Friday April 29, 2016

This year’s Spring Luncheon was held in historic Oakham House on the Ryerson University campus in downtown Toronto. This year we welcomed guest speaker Iain Dobson, who has just finished a year of research on applying the Provincial Growth Plan to the GTA’s proposed transit investments. His presentation, entitled “Is our transit system aligned with regional growth objectives?”, discussed the regionalization of mobility and drivers to that mobility. More than 45 members and guests attended this event. Thank you to our guest speaker Iain Dobson and to all who attended this year’s luncheon.



*Left: Section president Angela Gibson speaks at the Spring Luncheon. Right: Iain Dobson on the Provincial Growth Plan and transit investments.*

## **8th Annual Toronto, Hamilton, and Southwest Ontario Sections Joint Student Presentation Competition | Thursday, March 31, 2016**

This year's annual Joint ITE Student Presentation Competition was held in the Intelligent Transportation Systems (ITS) laboratory at the University of Toronto, following a successful Student-Industry Mixer and Job Fair hosted by the University of Toronto ITE Student Chapter (UT-ITE). We had a great selection of presentations that featured student presenters from Ryerson University, University of Toronto, University of Waterloo, and Western University.

Due to a last minute illness and the willingness of one brave graduate student being willing to present on extremely short notice, this year's competition featured two undergraduate students and four graduate students. Md (Sami) Hasnine from the University of Toronto, the brave individual who stepped in to participate at the last minute, won the graduate category for his presentation on Investigating the Interplay between the Attributes of At-fault and Not-At-Fault Drivers and their Associated Impacts on Occurrence and Severity of Traffic Accidents. The winner in the undergraduate category was Tong Wang from the University of Toronto for his presentation on Feasibility and Impacts of Connected Vehicles. We would also like to congratulate the other participants on

their excellent presentations – Dana Elfar from Western University, Joshua Goodfield from Ryerson University, and Chris Harding and Michael Di Febo from the University of Toronto.

Thanks to James Lamers and Teddy Lin from UT-ITE for facilitating this year's competition, and to ITE Toronto Section members: Gene Chartier, Catherine Curak, Brett Sears and Peter Yu for assisting the ITE Toronto Section Executive in judging the competition. A big thanks to Simon Tam of ITE Hamilton Section and Maged Elmadhoon of ITE Southwestern

Ontario Section for assisting with reviewing of abstracts and shortlisting finalists. A special thanks to CITE for affording ALL presenters to receive a prize in both graduate and undergraduate categories. First place winners received \$350; second place winners received \$150; and the third place winner in the graduate category received \$100. As per tradition, the 2016 winners were invited to attend, free of charge, the ITE Toronto Section Spring Luncheon.

## **February Breakfast Session – Richmond-Adelaide Cycle Track Extension | Tuesday February 23, 2016**

ITE Toronto Section kicked off 2016 with a Breakfast Session at Toronto City Hall. Ten ITE members were treated to a great discussion on the Richmond and Adelaide Streets cycle tracks, led by Jacquelyn Gulati, Manager of the City of Toronto's Cycling Infrastructure and Programs. She provided a great overview on the evolution of the project, some of the unique challenges to the project, and how other concurrent programs, such as the enhanced enforcement of on-street deliveries and parking violations, were able to assist with the success of these increasingly popular cycling facilities. A special thanks to Jacquelyn for her presence at ITE Toronto Section's opening event of 2016.



## ATLANTIC SECTION

On Thursday May 19th, 2016, the Atlantic Provinces Section held its 2016 Spring meeting in Dartmouth, Nova Scotia. Approximately 60 participants attended and listened to a variety of technical presentations from the consulting industry, government agencies, and the academic sector. In addition, Dalhousie University's DalTrac laboratory hosted a technical poster session, showcasing the graduate study work in progress at Dalhousie's transportation department. Our thanks to Dr. Ahsan Habib for his continued participation and support of the Atlantic Section's activities.

The Spring meeting was held in conjunction with the local section of the International Municipal Signal Association (IMSA) annual meeting and trade show. The IMSA hosted an industry trade show which showcased products from various vendors such as 3M, Econolite, Tacel and Electromega. Participants from both the ITE Meeting and the IMSA Meeting were able to view products

and have discussions with the company representatives on their equipment, products and services.

Planning has begun for the Atlantic Section's Fall meeting in November at the University of New Brunswick in Fredericton. This meeting will be taking place along with the annual banquet, held the evening before the meeting. The executive is currently soliciting for technical presentations for the session and we are arranging for a poster session of graduate work from the UNB Transportation group.

This is an election year for the Atlantic Section and the executive will be looking for a new Secretary/Treasurer for a 2-year term. Our current President, Michael MacDonald will be moving into the role of Past President, Vice President Roddy MacIntyre will assume the role of President, and Mike Connors will become the new Vice President. Our current Past President, Greg O'Brien, will end his term on the ITE Atlantic Executive. We thank Greg for his service to the Section over the last eight years.

# SWANSON TRAVEL FELLOWSHIP FUND

H. Allen Swanson, P.Eng. (H), Past ITE International President, and his wife Valerie have made a bequest in their wills to provide funding for the Swanson Travel Fellowship Fund. This fellowship will help fund travel and participation for young Canadian ITE members at ITE Annual Meetings and Exhibits.



Allen says, "ITE for me represents a family. I have made friends from Goteborg, Sweden to Wellington, New Zealand. This travel fund will hopefully enable young ITE members to become plugged into this great professional organization."

ITE thanks Allen and Valerie (pictured with Thomas Brahms and Jeffrey Paniati) for this generous gift. The Swansons encourage others to set up similar funds for ITE. Read about Allen and his contributions to ITE and the profession on the [ITE website](#).

*This piece originally appeared in the April 2016 ITE Spotlight newsletter.*

## UNIVERSITY OF BRITISH COLUMBIA

### Guest Lecture on Intelligent Transportation Solutions

On March 10th, Martin Fyfe, the Highway Operations and Maintenance Manager of Transportation Investment Corporations, delivered an outstanding presentation on Intelligent Transportation Systems (ITS). We learned about how ITS is being used on Highway 1 and how it is managed at the Regional Transportation Management Centre. Another highly talked about topic in the field of ITS that was discussed was Connected and Autonomous Vehicles and their benefits, which was a point of interest for many students. We would like to give a big thank you to Martin Fyfe for taking the time to come and deliver a powerful talk on ITS.

### Tour of the SkyTrain Operations and Maintenance Centre

On March 30th, UBC ITE visited the SkyTrain Operations and Maintenance Centre (OMC) in Burnaby. The tour was led by Bill Knight of TransLink, and began at Edmonds Station, where Bill shared the history of the SkyTrain network and highlighted the important safety and operational mechanisms installed at all SkyTrain stations, such as the track intrusion system.

Afterwards, we were given a tour of the Control Room, and had the chance to meet the specially trained operators responsible for controlling all train movements and operations on the network. We then visited the Maintenance and Storage Facility, the central location where all trains are cleaned, repaired, and maintained. There, SkyTrain staff demonstrated the complex control systems used to transfer trains between the maintenance facility and live tracks.

Last, but not least, we were given an opportunity to board a Mark III SkyTrain car, one of the twenty-eight next generation SkyTrain vehicles that are scheduled to enter service later in the year. We learnt a great deal about the SkyTrain network and rapid transit systems in general over the course of this exciting tour, and would like to thank Bill and the BCRTC team for arranging this tour for UBC ITE.

### CITE Conference 2016

Four students from the UBC ITE Student Chapter attended the CITE Conference in Kelowna from June 5th to June 8th and participated in the traffic bowl, placing third! They also attended the YPT Vancouver unconference that took place on June 7th. Here's a write up of the experience, by Simone Tengattini, a member of the team:

*"My experience at the annual CITE conference was very fruitful. The conference was well structured and surprisingly it was very student-centric. In fact, there were many socializing/networking activities for students to meet other students and people in the industry. Plus, taking part in the traffic bowl was a lot of fun! As the first team that UBC Vancouver sent to the conference after a few years, we made it to the final round.*

*Finally, daytime was filled with interesting presentations about hot topics in transportation engineering and planning. Works were both from academia and industry. I would strongly encourage new students to get somehow involved with ITE. It's a beautiful environment."*

Congratulations to our team for placing third, and a BIG THANK YOU to all our sponsors who made this event possible!



UBC's Traffic Bowl team in Kelowna



## UNIVERSITY OF MANITOBA

The University of Manitoba student chapter sent eight students to the 2016 CITE conference in Kelowna, including a mix of undergrad students, graduate students, and recent graduates. Students were pleased to take part in the excellent catalogue of activities put on by the conference including technical sessions, student and industry mixers, local bike tours, and the popular street hockey event.

The student chapter was fortunate to receive many awards from CITE this year. Giuseppe Grande, president of the chapter, won the John Vardon Memorial Transportation Scholarship as a master's student, and also presented his research on comparing methods of calculating annual average daily truck traffic in Manitoba. Amanda Pushka,

the chapter's social & fundraising chair, won the CITE WSP Undergraduate Scholarship. The U of M student chapter won the student chapter activity award. Last but not least, Auja Ominski, Steven Wood, and Giuseppe Grande represented our student chapter in the annual CITE Collegiate Traffic Bowl team and won the event, ousting University of New Brunswick and University of British Columbia in the final round. Preparation is ongoing for the international event, being held in August at the ITE 2016 Annual Meeting and Exhibit in Anaheim, CA.

The student chapter always looks forward to the annual CITE conference and it fully lived up to expectations this year. Thank you to the organizing committee for hosting another great conference!



*U of M members celebrate their hardware at the CITE conference*



*Steven Wood, Giuseppe Grande, and , Auja Ominski (left to right) won the CITE Traffic Bowl competition in Kelowna and will travel to Anaheim in August to represent Canada.*

# student chapter news

## UNIVERSITY OF TORONTO

This summer term was incredible for our student chapter. We have been very busy organizing various social events and hosting some on campus competitions. At the beginning of the summer, we organized our annual student industry mixer where more than 12 government and private organizations joined. Around 40 undergraduate and graduate students attended from the Civil Engineering departments and the Planning and Geography departments of various universities. This was a great opportunity for our students to connect with the professionals.

In the first week of May, we organized the Traffic Bowl Trivia session where a total of five universities joined: University of Toronto, Ryerson University, Mohawk College, McMaster University, University of Waterloo. The event was very competitive and Mohawk College was the winner in the final round.

The Eighth Annual Joint Section Institute of Transportation Engineers Student Presentation Competition (Toronto, Hamilton Area, and Southwest Ontario Sections) was held in the ITS Lab at the University of Toronto at the beginning of summer. Students from McMaster University, Mohawk College, Ryerson University, University of Toronto, University of Waterloo, University of Windsor and Western University participated. The U of T ITE student chapter hosted the event.



*Above: U of T ITE Student-Industry Mixer  
Below: Traffic Bowl Trivia Night  
Left: The Eighth Annual Joint Section Institute of Transportation Engineers Student Presentation Competition*





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