

# Transportation

ite

Talk

CANADIAN INSTITUTE OF TRANSPORTATION ENGINEERS MEMBER NEWSLETTER  
Volume 29, Number 4

## ONE-ITS: Rethinking the Future of ITS Innovation

**Baher Abdulhai, Ph.D., P.Eng.**

Canada Research Chair in ITS  
Director, Toronto ITS Centre and Testbed  
Department of Civil Engineering  
University of Toronto

**Mohamed El-Darieby, Ph.D., P.Eng.**

Associate Professor and Chair  
Software Systems Engineering  
University of Regina



University of Toronto Test Bed.

### IN THIS ISSUE

Rethinking the Future of ITS	Cover
President's Message	2
Director's Message	3
ITE President's Message	4
Member's Poll	5
Member Profile: Nadine King	6
"Sharrows"	7
Who was John Vardon	8
Call to Action: Scholarship Deadlines	9
Calling all Volunteers	10
Technical Liaison Committee	11
Mentorship Committee	11
Call for Nominations (CITE Awards)	12
TAC Transportation Person of the Year	13
Coming Events	13
Section News	14
Committee News	15
Student Chapter News	16
CITE Bookstore	18
Advertising Directory	20
CITE Contacts	22
CITE Notes	23
2008 Conference	Back cover

### HOW MUCH DOES ITS COST IN LINDENS?

When we think about the future of Intelligent Transportation Systems (ITS) we have to imagine not only life in the fast lane but also life in the virtual lane! We have barely set foot in the new millennium and people are already socializing on face book, own property in second life, communicate with Avatars and trade real dollars for Linden dollars. The future of innovation, and ITS innovation is no exception, is on the World Wide Web (WWW).

Not very long ago, creating a static HTML webpage and posting my resume online was a dazzle, not to mention adding a few colour photos to the page. Over the years, the WWW evolved from a document sharing environment to a much more mature and sophisticated environment for conducting business, providing services, socializing, and most relevantly, innovating. The WWW matured through several stages and passed milestones such as SSL (Secure Sockets Layer), EAI (enterprise application integration) solutions, business-to-business (B2B) solutions, data exchange harmonization

through XML, to most recently, service-oriented architecture (SOA) for creating loosely coupled interacting software applications. Web services and mashups are common vocabulary on the WWW. With few mouse clicks, you can grab news from one source, a map from another, the weather from a third and mash them up together to create your own application that shows you on the map where news is happening and whether it is sunny up there. It is clear, at least to us, that the future of ITS innovation has to harness the power of the WWW. Our vision is to 'democratize,' open, and sustain innovation in ITS through socio-technical networks using modern Internet technologies for coordinating decision-making and for ITS information exchange and knowledge sharing. What exactly are we talking about here? Let us walk through it.

This is an introduction to *ONE-ITS: Rethinking the Future of ITS Innovation*. The full paper can be downloaded at:  
[www.cite7.org/Newsletters/2007WinterFeature.pdf](http://www.cite7.org/Newsletters/2007WinterFeature.pdf)

# MESSAGE

## HAPPY NEW YEAR!

Three months ago we sent out the first ever electronic edition of Transportation Talk. Since then, we have heard back from many members on the new look and content. The comments were very positive and we will continue to make changes and improvements as time goes on.

Interestingly, many members who provided comments were leaders in their respective companies. It is great to see that our most senior members are still very passionate about the organization and, through their comments, clearly endorsed the direction we have taken. Thank you to all of those who clicked on the hyperlinks in the newsletter to provide feedback. Yes – now we know – the links do work.

In this edition, you will find the following:

- A new Member's Poll question. Just click on the link to cast your vote.
- The Feature Article. This month's feature is by Baher Abdulhai and Mohamed El-Dariby regarding Intelligent Transportation Systems.
- A Member Spotlight Article. This month's interview is with Nadine King of the Vancouver Island Section.
- Section and CITE committee updates will also be regular features.

Some of the items the Executive has been busy working on include:

- Updating the Web Communication Centre software and, if all goes as planned, you should have received this copy of Transportation Talk using the new delivery software. The migration was taking place over the holidays and will provide us with greater flexibility and ease to communicate with the membership.
- To make it simpler for you to enter the Web Communications Centre, we will be moving to a new login protocol. More on this to follow shortly.
- With Transportation Talk now rolling, we have moved our attention to updating the CITE website. The website, as has been pointed out by many of you, is sorely out of date. We have hired a web-designer and will be working with her to strip out the old information and add a brand new look. Bear with us as this will take some time to complete the

update. Following this, there will be an opportunity for the Sections to build their own Section website on a template through the same web designer.

- The Executive also recently met with the Local Arrangements Committee for this year's annual conference in Victoria. Things are shaping up nicely for an excellent conference at a tremendous conference facility.
- We now have a permanent mailing address for CITE. You can reach us at:

### CITE

PO Box 81009  
47B Harbour Square  
Toronto, ON, M5J 2V3

Wishing you all the best in 2008. See you in Victoria.

Regards,



## Happy New Year!

First of all, I have to note that our own Alf Guebert has been sworn in as the ITE International President for 2008. Please join me in congratulating Alf. This position takes a great deal of time and dedication (not only for Alf but also for his wife Nancy, who deserves the prize as Most Supportive ITE Spouse Ever), and let's all try to support him in his presidency.

### News from the October International Board Meeting

The Nominations Committee met on Sunday, and two excellent (and very different) candidates for International Vice President were chosen to run in 2008: Paul Eng-Wong, from New York and Gene Wilson, from Wyoming. Both Paul and Gene have a long history with ITE, and care passionately about improving ITE and the profession. An excellent campaign is expected.

Looking back at the fall Board meeting, a great deal was accomplished. Some key initiatives:

- The Board approved a grant of \$25,000 CDN for the *Site Design Guidelines for Promoting Sustainable Transportation* software we have under development by Kelvin Roberts. That will go a long way to completing the software as a working tool, and testing the waters for marketability. Thanks to the Board and ITE Staff!
- Annual conference locations: as part of a multi-year deal to keep hotel costs low ITE will be returning to Toronto in 2016. In 2017, it is likely that ITE will be returning to Seattle
- A Performance Specification was approved for Vehicle Traffic Control Signal Heads – Part 3: Light Emitting Diode (LED) Vehicle Arrow Signal Modules. This is an excellent technical initiative to improve the assessment of performance (and maintenance) of LED heads.
- Alf Guebert and I are working towards a Canadian version of the "Traffic Signals Report Card". Twenty-eight Canadian municipalities participated in the survey and having a report exclusively on the "state of the nation" would be great for understanding how we are doing. We will also use this to increase the focus on funding for signal systems.
- A new strategic plan is under development for ITE which will enhance our focus on member services. Look for more news on that in my Spring message following the proposed workshop at the Miami Board meeting
- Related to that issue, there was a good debate about deficit funding... Should ITE focus on providing more services to members even if it means going into a deficit financing position more often? A related question is how we as a Board can tie the budget more closely to member services and the strategic vision for ITE? I would really like to hear your views on these topics
- Ways to increase the number of people involved in Technical Council activities. I'm sure you're aware that one free Council



membership is included with your annual dues. Please explore what the Councils have to offer. If you have any suggestions or questions, please let me know.

Joining ITE gets easier all the time. ITE will now fill in the application form for new members, all you have to do is send in your resume (or send in a friend's if they are ready to join!).

We are working to arrange for training on the Certification Programs in 2008, in a location that is hopefully convenient for a reasonable number of people. Please look for announcements through the CITE Web Communications Centre on this.

One last note is a reminder of the Affiliated Agency Membership program. While quite a few Canadian government agencies have members under this discount program, most provinces are not taking advantage. Canadian agencies have a special deal with only two members required. Please think about taking advantage of this program. If you need more information, please check the ITE website or contact me.

In 2008, please consider volunteering for ITE, there are lots of ways to participate that don't require a huge time investment. Join our Technical Liaison Committee, help out with organizing Section activities, or write an article for this newsletter. We all gain when we volunteer.

### This issue's rant: Are you in "the pothole business"?

Jim Flaherty seems to think planning, designing and maintaining the transportation infrastructure of our cities is beneath his contempt. When will this country get a federal government that is supportive of cities, and responds with more than a wisecrack? I would have thought the fact that the majority of Canadians actually live in cities would do the trick, but apparently not. Falling back perpetually on the fact that cities are the creatures of the provinces, legislatively speaking, seems like head-in-the-sand thinking. There are other countries where cities are the focus of investment, where it is recognized that the majority of jobs and wealth are created in them, and where cities don't have to beg for investment by the federal government. Why can't we grow up and join the club?

..... Jim Gough, PEng., FITE  
District Director

# A MESSAGE FROM YOUR ITE PRESIDENT



## Together.. We Can Make a Difference

I am truly honoured to have been given the opportunity to lead this organization in 2008. As my term begins as International President of ITE, I want to take time to express my appreciation to those who have gone before me.

This past year, Earl Newman has provided outstanding leadership in "Bringing ITE to You". I want to personally thank Earl for his efforts in 2007. Past President, Richard Romer is wrapping up his three years as an officer of ITE. He has been a mentor for me, and has worked tirelessly to help ITE grow and flourish. Thanx Rich, for your dedication and vision!

Twenty-eight years ago, the Institute elected its first International President from outside the United States. Leo Laviolette from Hamilton Ontario was elected as the 43rd President of ITE. Eight years later, H. Allen Swanson became the 2nd Canadian to achieve that high honour. Both of these men have been very supportive of my desire to become an officer with ITE, and have been mentors to me for many years... Thank you Leo and Al for all your help!

ITE's new slogan, "a Community of Professionals... your source of expertise, knowledge & ideas", emphasizes that we are a close-knit group, working together to make a difference in the lives of people. One of the exciting things that the International Board will be working on this year is a new Strategic Plan for the Institute. The action plans that will come out of that process will be driven by the vision that is reflected in the new slogan.

I will also be relying heavily on the leadership and support of the Canadian District to help me achieve my goals for this year. My term as President officially began on January 1st 2008, and

I am looking for ways that I can make a difference in ITE... so that ITE can make a difference for the 17,000 members around the world... so that you all can make a difference in the lives of the public that we serve. Any thoughts or feedback from you very much appreciated. I can always be reached by email ([aguebert@tsh.ca](mailto:aguebert@tsh.ca)).

Remember my goals for this year:

- Technical Excellence;
- Transportation Safety;
- Workforce Development; and
- International Growth.

If we can make strides in these areas this year, *Together, we can Make a Difference!*

..... Alf Guebert, P.Eng, PTOE, FITE  
TSH Associates Ltd, Calgary, AB  
International President



*"A Community of Transportation  
Professionals ...your source of  
expertise, knowledge, and ideas..."*

# MEMBER'S POLL

## YOUR TRANSPORTATION EXPERIENCE

### Question:

**How long have you been actively working in the Transportation field (excluding time as a student)?**

- **Less than 10 years**
- **10-20 years**
- **20 years or more**

Note: Click on one of the above answers to submit your response by email. Commentary is optional, and the Managing Editor reserves the right to include commentary in the subsequent issue with Poll results. Names will not be published, unless specifically requested. Responses received after February 29, 2008, will not be included in Poll results.

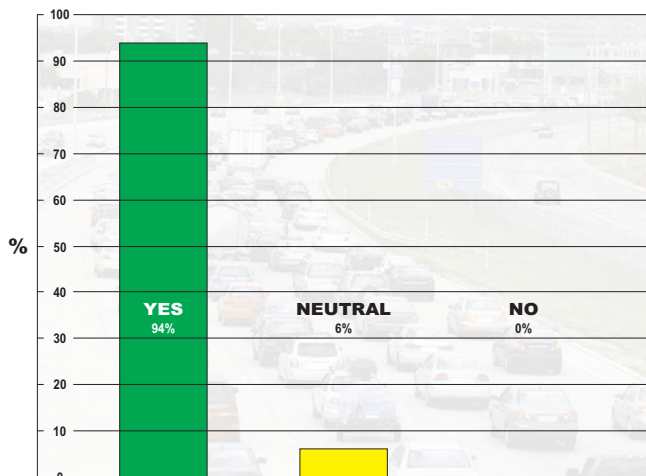
*Do you have a question for the membership? Email [Transportation Talk](#) and we will consider your question for a future issue.*

# MEMBER'S POLL RESULTS

## READERS GIVE A GREEN LIGHT TO THE NEW TRANSPORTATION TALK

In the fall issue of *Transportation Talk* we asked you "Do you like the new *Transportation Talk*?" and the new format got an overwhelming "green light".

**Yes = 94%**  
**No = 0**  
**Neutral = 6%**



### Some of the comments that we have received ...

*"Well done. Variety, depth, and flexibility are evident in the new format."*

*"I definitely like the new electronic version. Lots of color and a dynamic feel."*

*"The only other suggestion I have is not to break the articles / columns across pages, just print them all in sequence since you're no longer bound by the constraints of hard-copy tabloid layout."*

*"I look forward to the next issue!"*

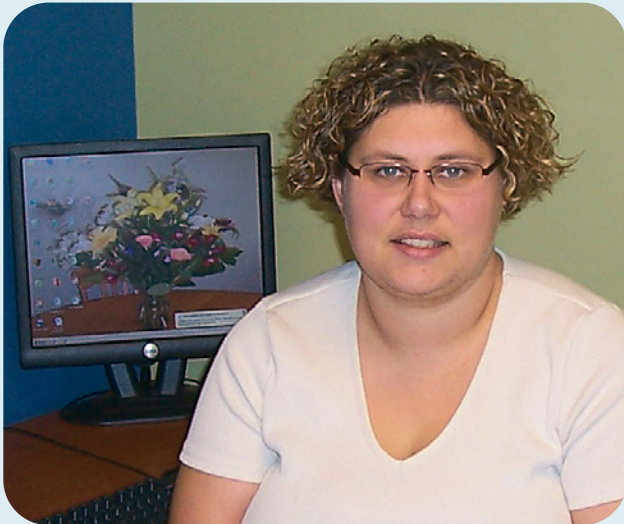
*"Great layout, great content, great improvement."*

*"A very slick looking document. Links are great!"*

*"Congratulations on the new *Transportation Talk*; very slick, modern, and professional looking."*

# MEMBER HIGHLIGHT

## NADINE KING



Nadine currently resides in Victoria, BC, is a Transportation Engineer with Boulevard Transportation Group, and is also the 2008 CITE & QUAD Conference Chair (Victoria).

**Academic Achievements & Professional Designations:** B.ASc. (Civil Engineering), P.Eng. (BC & Alberta)

**At which educational institution(s) did you earn your degree?** University of British Columbia, Class of 2000

**First place of employment:** Boulevard Transportation Group

**Personal hobbies:** Cooking & Quilting

**Please describe what attracted you to transportation engineering?** *I actually wasn't going to pursue transportation upon graduation. I had a mild interest in traffic signals and operations in university, but I had other stronger interests at the time. My interest in transportation has been developed through my job.*

**If asked to speak to a class of engineering students, how would you recommend it as a profession?** *Transportation offers the ability to be involved in all stages of a project from the initial planning to design to construction or to specialize in one stage. Typically I work on numerous projects at one time so there is always variety. I like transportation because there is opportunity to travel for jobs, but I'm not stuck in the field for days and weeks at a time which suits my lifestyle better.*

**During your career to date, have you pursued any professional designations through ITE? If no, do you plan to?** *I haven't pursued any yet; however I am planning to write the PTOE exam within the next 1-2 years.*

**Who has had the greatest influence on your life and career?** *In terms of my career, the greatest influence has been my boss Mike Skene. Mike has given me great opportunities and encouraged me to pursue the areas of transportation that are of interest to me. In addition, he was the one to get me involved with ITE.*

*In terms of pursuing engineering initially and in my life my parents and family have probably been the greatest influence. My parents and grandparents encouraged myself and sister to pursue careers that would challenge us, and allow us to support ourselves, but mainly to do what we were passionate about - whether it required a university or college degree or not. It didn't help that there are numerous engineers in the family.*

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

*I hope to have made an impact in transportation for daily users and improved transportation options for communities.*

**If you did not pursue engineering as a career choice, did you have another career in mind (a fallback)?** *I never really had a fallback to engineering.*

**What is the first thing people most commonly ask or say when they find out you are a traffic engineer?** *Some ask what that actually means. I.e. "What is it you actually do?" Or they ask if I can fix some traffic problem they deal with daily - i.e. why doesn't this light work, why can't signals work together, why isn't there a crosswalk here.*

**What is the most daring thing you've done in your lifetime (that you're willing to see in print)?** *I don't really consider myself a daring person and can't think of anything terribly daring to put in print.*

**What is the last book that you read, or are currently reading?** *I'm currently reading the Time Travellers Wife by Audrey Niffenegger*

**Have you ever met anyone you consider famous?** *No.*

**What is the single greatest satisfaction you take from your job as an engineer?** *Helping improve how people utilize the transportation network - even if they don't realize what was done to make it better.*

# "SHARROWS"

## Shared Use Arrows Improve Conditions for Cycling

The Capital Bike and Walk Society (CBWS) has released a research paper on a recently developed road marking – the shared use arrow or "sharrow" – that promises to greatly expand cycling networks in Canadian cities.

Cyclists are riding roads in cities across the country where marked bike lanes and other facilities are helping to make roads safer and more appealing. The new "sharrow" marking – a bike stencil capped with a pair of chevrons – is a new design pioneered in European and American cities that better identifies road positioning for both cyclists and motorists on narrower roads and travel lanes where marked bike lanes can't fit into existing rights-of-way.

Research shows that road markings and other treatments to accommodate on-road cycling are improving conditions for cyclists, enhancing safety and increasing the appeal of cycling as a transportation choice for many current and would be cyclists.

The new "sharrow" was endorsed by the Transportation Association of Canada (TAC) in fall of 2007. TAC has updated the

"Guidelines for the Design and Application of Bikeway Pavement Markings," which will be available early in 2008.

Experimental use of the "sharrow" can already be found in the Canadian cities of Victoria, Saanich and Vancouver, and can be found in a number of American cities where performance of the design is being monitored by the U.S. National Committee on Uniform Traffic Control Devices.

The CBWS paper on "sharrows" provides more comprehensive information (<http://www.capitalbikeandwalk.org/docs/CBWS%20on%20Sharrows%20Oct%2007.pdf>). Publication of the Sharrows paper is sponsored by Capital Bike and Walk ([www.capitalbikeandwalk.org](http://www.capitalbikeandwalk.org)) and the Friends of Cycling and Walking.

Submitted by: .....John Luton  
Executive Director, Capital Bike and Walk Society



### Transportation Resources from TAC

#### Coming in early 2008

- Guidelines for the Design and Application of Bikeway Pavement Markings
- Handbook of Recommended Information Sign Symbols for Canada
- Traffic Signals for Bicycles Guidelines
- Guidelines for Understanding, Use and Implementation of Accessible Pedestrian Signals
- Guide for Lateral and Vertical Roadside Sign Placement

#### Now Available

- Update to the Geometric Design Guide for Canadian Roads

Check the TAC website for further information and release dates.

[www.tac-atc.ca](http://www.tac-atc.ca)

Transportation Association of Canada  
2323 St. Laurent Blvd., Ottawa, ON K1G 4J8  
(613) 736-1350

# WHO WAS JOHN VARDON



**A**t the last Board meeting during a discussion related to the John Vardon Memorial Scholarship one of the younger members asked the question, who was John Vardon? Since the scholarship has been in existence for over 30 years, perhaps now is the time to refresh our collective memories of the origins of the man, and in whose name the scholarship is awarded.

John Vardon was born in Toronto in 1931, the son of Lester Vardon who was also a transportation person (retiring after a career with the Toronto Transit Commission in a senior management role). John attended the University of Toronto and graduated in 1953 with a Bachelor of Science in Civil Engineering. He then worked for three years as a Route Analysis Engineer in the Traffic Section of the Ontario Department of Highways (now the Ministry of Transportation), and participated in the Joint Research Program at Queen's University. John then enrolled in the Masters program at Queen's University in Kingston, Ontario. He received his Masters degree in 1959 and returned to the Department of Highways. In 1965 he joined the Metropolitan Toronto Planning Board, where he became the Director of the Transportation Division.

One of his first tasks with Metro was establishing guidelines for a major transportation study with the purpose of guiding the corporation for the next twenty years. He was Secretary of the Transportation and Technical Planning Committee and participated in the evaluation of the future Spadina Subway line. The work of the Planning Board was comprehensive and innovative for the time as many of the transportation planning techniques were

considered state of the art; particularly the modelling of future travel demands. What came out of this exercise was a system of transportation improvements that responded to growth in the fast expanding Metropolitan area. During this time there was extreme controversy with respect to major transportation facilities in Toronto. It was in this context that Mr. Vardon's leadership stood out. He was politically astute while still maintaining integrity in the technical aspects of the planning process.

John lived life to the full being active in squash and skiing. In 1972, he died suddenly at the age of 40. He left behind wife Shirley, and three young children; Susan, Christopher and Andrew.

A Committee of Friends consisting of Philip E. Wade (Chairman), Alan E. Argue, Walter Q. Macnee and John R. Crosby began fund raising for the Scholarship. They wrote: "John was a man whose work and ideas were consistently excellent, but his finest qualities were essentially human ones. His friendship and integrity were valued by all who knew him, and he extended dignity and honour to his profession."

On a personal note, I knew John both professionally and socially... he was the same person in both realms. In business matters he was always firm and yet fair. Although busy, he had time to listen to new ideas even from those with less experience. Socially he was outgoing and friendly, and subscribed to the good life and with it, the joy of living.

*Submitted by: .....Paul R. Hill  
CITE District Administrator*

## DR. MICHEL VAN AERDE MEMORIAL TRANSPORTATION SCHOLARSHIP

Applicants for the annual \$2,000 (CDN) scholarship must be: enrolled in an accredited transportation engineering program at the Doctorate level at a Canadian university; an ITE member; and either a Canadian citizen or permanent resident of Canada.

The recipient will also receive free registration and up to \$1,000 to reimburse travel expenses to attend the 2008 CITE Annual Conference in Victoria, B.C. from April 26 to 30, 2008 and be recognized at the Annual Awards Luncheon.

### Application Deadline: March 30, 2008

For further information or to download the Application Form, [<click here>](#).

**Contact:** Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

## JOHN VARDON MEMORIAL TRANSPORTATION SCHOLARSHIP

Applicants for the annual \$2,000 (CDN) scholarship must be: enrolled in an accredited transportation engineering program at the Masters level at a Canadian university; an ITE member; and either a Canadian citizen or permanent resident of Canada.

The recipient will also receive free registration and up to \$1,000 to reimburse travel expenses to attend the 2008 CITE Annual Conference in Victoria, B.C. from April 26 to 30, 2008 and be recognized at the Annual Awards Luncheon.

### Application Deadline: March 30, 2008

For further information or to download the Application Form, [<click here>](#).

**Contact:** Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

## STUDENT PAPER COMPETITION

*Award sponsored by Stantec Consulting Ltd.*

Every year, CITE offers a Student Paper Award to students in accredited Transportation programs at Canadian universities and colleges. This award is based on the technical merit and writing ability demonstrated in the paper, which must contain a minimum of 1,000 words.

The winner will receive a cash award of \$500 (CDN), plus \$1,000 to reimburse expenses to attend the CITE Annual Conference and present the paper. This year, the conference will be held in Victoria from April 26 to 30, 2008. An abridged version of the paper will also be published in CITE's Transportation Talk newsletter.

The winning paper is also entered into the ITE International Student Paper competition. The International winner will receive \$1,000 (U.S.) towards a trip to the ITE International Conference where they will be presented with the award.

Applicants must be a member of ITE, and have completed the work that provides the basis for the paper while a student member of ITE. The student also must be the sole author.

### Submission Deadline: March 30, 2008

For further information, [<click here>](#).

**Contact:** Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

## CITE iTRANS UNDERGRADUATE SCHOLARSHIP



New this year is the CITE iTRANS Undergraduate Scholarship. The purpose of the scholarship is to support and generate interest for undergraduate studies in the field of transportation.

Applicants for the \$2,000 (CDN) scholarship must be: completing their 2nd or 3rd year of studies in planning, geography, or engineering at a Canadian university; be an ITE member; and either a Canadian citizen or permanent resident of Canada.

The Application Form must be accompanied by a technical paper related to the field of transportation. The paper, which must be less than 1,000 words, does not have to be original work, but must be presented in a form solely developed and written by the applicant without correction or additions by their professors.

The recipient will also receive free registration and up to \$1,000 to reimburse travel expenses to attend the 2008 CITE Annual Conference in Victoria, B.C. from April 26 to 30, 2008 and be recognized at the Annual Awards Luncheon.

### Application Deadline: March 30, 2008

For further information, or to download the Application Form, [<click here>](#).

**Contact:** Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

# CALLING ALL VOLUNTEERS

## CITE NEEDS YOU!

Like many of us, 2008 will be filled with new work challenges and you will be busier than ever. So why volunteer for CITE activities? Ultimately, it's a very personal decision to contribute your time, but there are many different reasons for doing so, including:

- Opportunity to meet other people in the industry
- Learn more about the organization (Perhaps a trial run prior to considering an Executive position?)
- Contribute to technical projects
- Personal and professional growth
- Make a difference in an industry that you are passionate about

The last point is critical to our organization. Membership in ITE is by individuals rather than companies or agencies. In order to be successful it requires individual members who are passionate about their work, and desire to make a difference through their volunteer efforts.

It should be noted that most volunteer positions come with a time limit of two years, and a commitment of 2-4 hours per month. Also, most of these positions come with travel funding so that members have an opportunity to meet face-to-face during the course of the year.

If you are one of those people that feel they just don't have enough experience to contribute, please reconsider! CITE needs new people to become active in the organization and your participation is valued. Alternatively, if you have completed a previous mandate (such as a past Section President), we would welcome your continued involvement in the organization. You can choose to either put your name forward to assist on a specific committee, or we will find a volunteer position that fits your needs and schedule.

To be considered for a volunteer position, please submit your name, resume and the position being sought to:

Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

## OPPORTUNITIES AVAILABLE WITH CITE

**District Administrator:** this senior level position provides support to the Canadian Executive. Preference will be given to candidates with more than 10 years active participation in the District.

**Technical Liaison Committee (TLC):** comprised of a small group of individuals that oversees the selection and development of technical projects in Canada (*see article page 11*).

**Technical Project Manager:** an individual who oversees a specific TLC project (e.g. Site Design Guide software development) and acts as the CITE representative.

**Canadian Capacity Guide Project Involvement:** participate through discussion forums on the Web Communications Centre or on the standing committee.

**Student Chapter Advisors:** academics that oversee a student chapter of ITE receive many benefits, including paid annual ITE dues and registration to the CITE annual conference. Jeannette Montufar from the University of Manitoba is a shining example of a student chapter advisor in terms of the success of her students and program. Her students have consistently won scholarships and awards through ITE.

**Mentorship Committee:** currently being established to look at the potential for a CITE mentorship program (*see article page 11*)

**Transportation Association of Canada (TAC) Committee Representatives:** CITE appoints representatives to various TAC committees. Currently, two positions are open on the Traffic Operations and Management Standing Committee.



## TECHNICAL LIAISON COMMITTEE MEMBERS NEEDED

The CITE Technical Liaison Committee (TLC) is looking for transportation professionals who have a keen interest in transportation engineering, planning and policy development.

Formed in early 2006, the purpose of the TLC is to address communications and technical project/initiatives as a liaison between District 7 members, the CITE Executive and ITE International. The TLC mandate is to ensure that District 7 members have the opportunity to participate in technical projects and policy development through:

- ITE Council participation;
- Dissemination of technical projects/initiatives through ITE and other organizations; and
- Management of District 7 technical projects.

Current TLC technical projects include the School Site Development and Operations Informational Report, and the development of a software tool to apply the Site Design Guidelines to Promote Sustainable Transportation Modes.

The TLC meets in-person twice a year typically at TRB in Washington and the CITE Annual Conference. Committee funds are available to offset travel costs associated with these meetings. Conference call meetings are held periodically to maintain communications and committee progress in the interim.

If you are interested in finding out more about this opportunity, please contact or forward your intention and resume to:

Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346



## PARTICIPATE ON THE MENTORSHIP COMMITTEE

CITE is examining the potential for a Mentorship Program and is establishing a committee for the review. The committee will be tasked with defining the viability and scope of a mentorship program, estimating potential level of member participation, investigating mechanisms to enable the program (e.g. software for matching of applicants, typical forms used by applicants), and establishing program costs.

The committee, comprised of 3 to 5 people, will serve to facilitate dialogue on the goals of the mentorship program. The committee will be active for approximately six months, with the study concluding with a paper describing the findings and recommendations of the committee.

### WHY HAVE A MENTORSHIP PROGRAM?

A mentorship program would be a way for new members (as well as students) to connect with more experienced members regarding the transportation field. A mentorship program within CITE would be a mechanism for sharing knowledge, facilitating connections with individuals in the same industry, and encouraging broader participation in the organization. Mentorship programs are established for various reasons, including:

- guide new graduates on achieving professional status (widely used throughout the United States to encourage professional designation)
- support learning and training
- promote the industry
- broaden personal and professional skills
- facilitate employment opportunities

### MENTORSHIP PROGRAMS

A search of the word "mentorship" on Google returns over 1.5 million results. One quickly learns that mentorship is not a new concept (the word mentor leads back to a story by Homer where the lead character was named Mentor). Mentorship programs are common today in the legal, accounting and medical professions, and there are also many examples of mentorship programs in engineering, including:

- ITE District 6
- IEEE
- Professional Engineers of Ontario
- APEGBC (provincial)
- Ryerson Tri-Mentoring Program
- UBC

### HOW TO PARTICIPATE

If you are interested in sitting on the Mentorship Committee please forward your name to:

Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346

# Call for Nominations...

Each year, the Canadian Institute of Transportation Engineers sponsors an awards program to honour outstanding achievement in transportation engineering and distinguished service to CITE. The awards, presented annually at the CITE Annual Conference Awards Luncheon, bestow national recognition upon the recipients and increase the public's awareness of the role and responsibilities of the transportation practitioner.

CITE is currently seeking nominations for its two practitioner awards, the H. Robert Burton Distinguished Service Award and the Outstanding Voluntary Contribution Award.

Nominations for both awards will be received until March 15, 2008. Submissions may be in the form of a fax or email stating the name of the individual and a brief description of why the member should be considered for the award (specify which award).

## **Submission Deadline: March 15, 2008**

Please direct submissions to:

Gene Chartier, P.Eng.  
[vicepresident@cite7.org](mailto:vicepresident@cite7.org)  
Tel: 905 985-7346  
Fax: 905 985-9914

## CITE AWARDS



### **H. ROBERT BURTON DISTINGUISHED SERVICE AWARD**

CITE's most prestigious award 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 in Canada. 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.

Each year, CITE recognizes an individual member who has shown these same qualities that Bob Burton practiced with the H. Robert Burton Distinguished Service Award. Nominees will have demonstrated a notable career in the field and have a record of service with CITE.

### **OUTSTANDING VOLUNTARY SERVICE AWARD**

CITE grants this award to a member or members making an outstanding voluntary contribution to CITE or one of its projects during the previous year.

### **H. ROBERT BURTON DISTINGUISHED SERVICE AWARD – PAST RECIPIENTS:**

2007	Doug Allingham
2006	Dave Richardson
2005	Ed Levy
2004	Harry Burns
2003	Mavis Johnson
2002	Leo Laviolette
2001	Albert J. Popoff
2000	Paul Hill
1999	Andy Vandertol
1998	Grant Bacchus
1997	Stan Teply
1996	Art Lomax
1995	J. Andrew Sharpe
1994	Sam Cass
1993	H. Allen Swanson
1992	H. Robert Burton

2007



## TRANSPORTATION PERSON OF THE YEAR – GENI BAHAR

The Transportation Association of Canada held its annual Conference in Saskatoon (SK) October 14-17, 2007. During the evening gala on October 17, Louis Ranger, Deputy Minister of Transport, Infrastructure and Commodities presented the award for Transportation Person of the Year to Geni Bahar, in recognition of an individual who has assumed leadership roles that have contributed to the improvement or advancement of the transportation industry.

Geni is very active in all aspects of the Transportation industry and is a member of many committees:

- The Institute of Transportation Engineers
- Transportation Research Board, USA
- TRB Committees for Transportation Safety Management
- TRB Committee for Safety Data and Statistics
- TRB Task Force for Highway Safety Manual
- Canadian Association of Road Safety Professionals
- World Congress – PIARC
- Transportation Association of Canada’s Standing



Geni Bahar (right) receiving her award from Louis Ranger, Deputy Minister of Transport, Infrastructure and Commodities.

- Committees for Road Safety
- Transportation Association of Canada’s Standing Committee for Geometric Design Standard
- Transportation Safety Information Professionals of the US National Safety Council

iTRANS Consulting congratulates Geni for her well-deserved recognition, and for her dedication to improving the safety of roads across North America.

Full details are available at [www.itransconsulting.com](http://www.itransconsulting.com)

Submitted by: Andrea Holland, B.A. (Hons)  
Marketing Coordinator, iTRANS Consulting Inc.

## COMING EVENTS

### MARCH

**30-4/2 Institute of Transportation Engineers -- Technical Conference & Exhibit:** Miami, FL  
[www.ite.org/Conference/default.asp](http://www.ite.org/Conference/default.asp)

### APRIL

**3-6 Congress for the New Urbanism:** Austin, TX  
[www.cnu.org/cnuxvi/](http://www.cnu.org/cnuxvi/)

**26-30 CITE -- Annual Meeting & Quad Conference:** Victoria, BC  
[www.citebc.ca/Conf2008/](http://www.citebc.ca/Conf2008/)

### JUNE

**1-4 Canadian Transportation Research Forum:** Fredericton, NB  
[www.ctrf.ca/](http://www.ctrf.ca/)

**1-4 ITS Canada -- Annual Conference & General Meeting:** Montreal, PQ  
[www.itscanada.ca/english/annualconferences.htm](http://www.itscanada.ca/english/annualconferences.htm)

**8-11 Canadian Multidisciplinary Road Safety Conference:** Whistler, BC  
[www.carsp.ca/index.php?0=documents&1=48](http://www.carsp.ca/index.php?0=documents&1=48)

### AUGUST

**17-20 American Public Works Association:** New Orleans, LA  
[www.apwa.net/meetings/congress/2008/](http://www.apwa.net/meetings/congress/2008/)

**17-20 Institute of Transportation Engineers -- Annual Meeting & Exhibit:** Anaheim, CA  
[www.ite.org/meetcon/index.asp](http://www.ite.org/meetcon/index.asp)

### SEPTEMBER

**2-5 Pro Walk/Pro Bike:** Seattle, WA  
[www.bikewalk.org/conference.php](http://www.bikewalk.org/conference.php)

**11-14 International Downtown Association:** Calgary, AB  
[www.ida-downtown.org/](http://www.ida-downtown.org/)

**21-24 Transportation Association of Canada:** Toronto, ON  
[www.tac-atc.ca/english/annualconference/annualconference.cfm](http://www.tac-atc.ca/english/annualconference/annualconference.cfm)

# SECTION News

## GREATER VANCOUVER

The ITE Greater Vancouver Section held its annual Award Dinner and Annual General Meeting on November 29, 2007. Two awards were presented:

**Bill Curtis Technical Achievement Award:** The winner of the 2006 Bill Curtis Technical Achievement Award is the Roberts Bank Rail Corridor - Road/Rail Interface Study. The award recipients included the study partners, which consist of Transport Canada, BC Ministry of Transportation, Port of Vancouver, TransLink, Greater Vancouver Gateway Council, and the study consultants are MMM Group and Halcrow Group. The Bill Curtis Technical Achievement Award celebrates technical excellence in the field of transportation engineering. Past recipients include "Prince George Pedestrian Master Plan", "Sea to Sky Highway Improvement Project Test Section", "U-Pass", and "Millennium SkyTrain".



From Left to Right: Sarah Rocchi (Past President of ITE Greater Vancouver Section), Chris Bushell (Halcrow Group), Floris Vanweelden (MMM Group), Borg Chan (Immediate Past President of ITE Greater Vancouver Section), Mimi Sukhdeo (Transport Canada)

**Lifetime Achievement Award:** The winner of the 2006 Lifetime Achievement Award is Mr. Brian Wallace. Brian recently retired after 41 years in the transportation industry, having worked at the City of Vancouver, Zoltan Kuun and Associates, and at the former ND Lea (Now MMM Group). At retirement Brian was Senior Transportation Engineer with the Vancouver office of MMM Group. One of Brian's many achievements include the implementation of traffic calming in the Downtown Vancouver's West End, which is one of the first neighbourhoods in North America to have traffic calming.



From Left to Right: Sarah Rocchi (Past President of ITE Greater Vancouver Section), Brian Wallace (MMM Group)

CITE President Bruce Belmore also attended the November AGM in Vancouver to provide an update on CITE activities to the ITE members. He also met with the 2008 ITE Greater Vancouver Section Executive.



From Left to Right: Bruce Belmore (CITE President), William Hui (Co-webmaster), Borg Chan (Immediate Past President), Gordon Foy (Vice-President), Thomas Kwan (President), Kanny Chow (Secretary), Matthew Chan (Treasurer).

Please visit [www.citevancouver.org](http://www.citevancouver.org) for more up-to-date news and events.

# COMMITTEE *NEWS*

## CANADIAN CAPACITY GUIDE COMMITTEE – INTERCALC

The Canadian Capacity Guide (CCG) Committee has developed the 2006 Edition of the Guide which has been published by ITE District 7. Working with the Committee, BA Group and its software developer partner (Miovision Technologies) have developed InterCalc – traffic engineering software which analyzes signalized intersections using the procedures outlined in the updated edition of the CCG. InterCalc has been thoroughly tested and vetted, and accordingly is the only CCG traffic engineering software officially sanctioned by the CCG Committee and CITE. Key worked examples in the CCG will be replicated and distributed with InterCalc in order to clearly illustrate analysis procedures.

InterCalc reflects the numerous comparative advantages of the Canadian Capacity Guide 2006 Edition methods including:

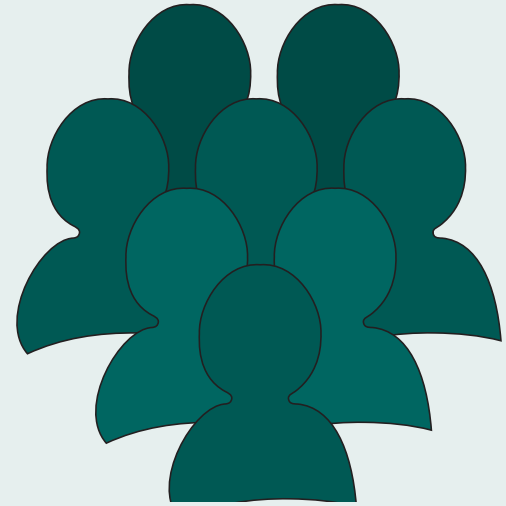
- a more consistent and logical assessment of the relationship between traffic volume and intersection capacity,
- a more intuitive treatment of right turn on red,
- explicit adjustments for left turns during inter-green,
- a more realistic assessment of the capacity of a permissive left turn phase, and
- a more direct and technically consistent relationship between lost time and signal phasing practices.

InterCalc supports a direct (one way) conversion of signalized intersection performance results from Synchro (version 7 and higher) to InterCalc. Most key input data will be automatically transferred to the InterCalc analysis module.

InterCalc also provides integrated analysis of un-signalized Two-Way Stop Control and All-Way Stop Control intersections using the methodology set out in the US Highway Capacity Manual (2000). InterCalc provides flexibility to analyze alternative lane configurations not permitted in recent versions of the Highway Capacity Software. InterCalc also uses enhanced optimization procedures in the calculation of approach capacities for All-Way Stop Control intersection analyses.

InterCalc provides comprehensive integrated file management and volume adjustment features. The “volume input screen” and complementary “scenario manager” allow the user to quickly and accurately assess a wide range of alternative scenarios.

All analyses are fully presented in concise, easy-to-understand report-ready printouts.



The final version of the software will be released early in 2008. Two versions of the software will be available:

- an unlicensed version will be free of charge and may be used for evaluation and academic teaching purposes, and
- a licensed version will be for use by practitioners in the public and private sectors.

More detailed information concerning the InterCalc traffic engineering software can be found through the CITE website at [www.cite7.org](http://www.cite7.org) or directly at [www.intercalc.ca](http://www.intercalc.ca).

*Submitted by: Robert McBride, P.Eng., FITE  
Canadian Capacity Guide - InterCalc Software Committee*

# STUDENT CHAPTER NEWS

## UNIVERSITY OF MANITOBA

This fall, our Student Chapter organized and participated in several educational, technical, social, community service, and competition events. The objective was to provide students with interesting professional development activities and the opportunity to make a difference in the community. We were excited to resurrect some activities from past years including the sustainable transportation contest, and maintain our annual traditions such as fundraising barbecues and assembling food hampers for the Christmas Cheer Board. The participation and enthusiasm from our members was phenomenal.

In October, we hosted a barbecue at the University of Manitoba to raise funds for future activities like assembling food hampers for the Christmas Cheer Board, sponsoring ITE web seminars, and subsidizing student member travel expenses for the 2008 CITE conference. The barbecue was a tremendous success as we sold out half way through the lunch period.



*University of Manitoba: BBQ Fundraiser.*

At the beginning of November, Bjorn Radstrom (EIT) conducted an Adobe InDesign introductory course to assist transportation engineering students communicate and illustrate complex, technical concepts in reports and presentations using the advanced graphical capabilities of this software. During the same week, Mr. Kenn Rosin (P.Eng.) from Stantec Consulting Ltd. was invited as a guest speaker to share his experiences about the development of the transportation system in Winnipeg over the last 50 years and what he believes the future holds for young engineers today.

In the third week of November, the Student Chapter hosted an ITE web seminar called "Pedestrian Signal Safety for Older

Persons Web Briefing" to provide technical information and guidance for students interested in pedestrian safety issues.

The Student Chapter organized a contest for the month of November encouraging students from all over campus to write a 500-word essay of a strategy or initiative to facilitate sustainable transportation at the University of Manitoba. Several intriguing entries were received, and a \$100 gift certificate for McNally Robinson donated by Montufar & Associates was presented to the winner, Michael Guberman, a second year Engineering student. This essay can be downloaded from our website at [www.iteumanitoba.ca](http://www.iteumanitoba.ca).



*University of Manitoba: Sustainable Transportation Competition Winner (left to right): Michelle Wadelius, Michael Guberman, and Gareth Rempel*

In December, the traditional Student Chapter Christmas Party has held. This activity was especially successful thanks to the participation of the students who had the opportunity to create bonds with several transportation professionals in a relaxed, casual atmosphere.

Finally, one of the most rewarding activities performed by our Chapter was our participation in the Feed-A-Family program for the Christmas Cheer Board. The Student Chapter, its members, and others from the Faculty of Engineering provided cash and food donations. Members of our Chapter assembled and delivered food and gift hampers for three families in need. The generous support and unselfish attitude of all those involved helped make this Christmas a little more enjoyable for those less fortunate than us.

The success we achieved this fall was truly a team effort. Student Chapter members, the Chapter Executive, and our



*University of Manitoba: Christmas Cheer Board (left to right): Karen Wiens, Ben Jablonski, Greg Blatz, and Garreth Rempel*

Chapter Advisor Dr. Jeannette Montufar (P.Eng.) all gave their time, energy, and effort to support the community and help develop our transportation engineering abilities. We look forward to the new year and building on the success of the fall.

## **RYERSON POLYTECHNIC UNIVERSITY**

This year's activities hosted by the Ryerson Institute of Transportation Engineers (RITE) have been limited, but proven to be very valuable to the RITE membership, which has doubled to more than 50 members compared to last year as a result. RITE has also taken a new approach to traditional membership building practice by promoting its existence to students enrolled in transportation-related programs other than Civil Engineering, including Geographic Analysis and Urban and Regional Planning.

RITE began the academic year with the launch of its Monthly Guest Speaker Series on Friday, October 19th. This presentation was given by Gene Chartier (P.Eng.), CITE Vice President and Commissioner of Planning and Public Works of the Township of Scugog, who provided an overview of ITE in Canada and internationally, then discussed the ITE document "Promoting Sustainable Transportation through Site Design – An ITE Recommended Practice". A second guest lecture took place on Thursday, November 1st, by Phil Weber (P.Eng.), Communications Coordinator for the ITE Toronto Section and Senior Project Manager at Ourston Roundabouts Canada, who provided an introductory session on roundabout design to many students interested in advanced highway geometric design.

RITE has plans to host guest lectures from professionals from the City of Burlington, IBI Group and iTRANS Consulting Inc. in the Winter semester. Other activities are currently being planned, particularly as a result of an informal partnership that was established between RITE and the ITE Student Chapter at the University of Toronto (U of T) on Friday, October 19th. Since the campuses are within 15 minutes walking distance of each other, it is hoped that the cross-promoting of ITE-related activities on both campuses will improve awareness of ITE and enhance participation at the respective events. A very special thanks to Mohamed Medhat Amin (President), Marianne Hatzopoulou (Secretary) and Dr. Matthew Roorda (Faculty Advisor) from the U of T Student Chapter of ITE for their assistance in this partnership.

## **UNIVERSITY OF WATERLOO**

The fall term is the start of the academic year and provides a great opportunity to inform students about the profession of Transportation Engineering. Consequently, our ITE Student Chapter at the University of Waterloo focused its efforts toward recruiting undergraduate and graduate students into the transportation group.

Last term, our Chapter Executive initiated a plan to host distinguished speakers from academia and industry on a monthly basis in order to expose students to various aspects of transportation engineering. Speakers include Kevin Bebenek from IBI Group speaking about ITS and Flavio Cunto, a Ph.D. candidate at UW, speaking about road safety assessment.

Over the past years, the Student Chapter of the University of Waterloo has been actively involved in professional conferences. Most recently, a number of students and transportation faculty attended the Annual meeting of the Transportation Research Board in Washington DC, and participated in both poster and presentation sessions.

The current demanding job market has been a great deal of help to attract more students into transportation engineering, and we will continue this path in the winter term. Furthermore, we would like to invite transportation professionals who are willing to give a presentation at the University of Waterloo on transportation related projects to contact Pedram Izadpanah, the Student Chapter VP at [pizadpan@uwaterloo.ca](mailto:pizadpan@uwaterloo.ca).

## 2007 ANNUAL CONFERENCE COMPENDIUM - Toronto, ON



The 2007 Annual Conference compendium includes papers from the wide range of technical sessions representing four core transportation topics: Transportation Demand Management (TDM), Promoting alternative modes of transportation, Safety & traffic control, and Transportation modeling & monitoring.

**NOW AVAILABLE!**

## PAST CITE ANNUAL CONFERENCE COMPENDIUMS

Many past conference compendiums are still available, though supplies are limited. These compendiums contain a large number of papers covering a variety of past studies and research initiatives across Canada and parts of the U.S., and can still be a valuable research aid. The compendiums still available include:

1997 Joint CITE/WCTA Conference - Vancouver, BC

1999 Joint AQTR/CITE Conference - Montréal, QC

2000 Joint District 1/CITE Conference - Niagara Falls, ON

2001 CITE Conference - Calgary, AB

2002 CITE Conference - Ottawa, ON

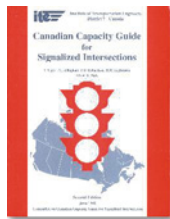
2003 Joint District 4/CITE Conference - Winnipeg, MB

2004 CITE Conference - Moncton, NB

2005 CITE Conference - Saskatoon, SK

2006 CITE Conference - Banff, AB

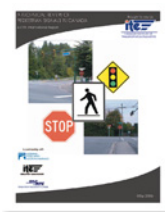
## THE CANADIAN CAPACITY GUIDE FOR SIGNALIZED INTERSECTIONS (Second Edition)



This updated document to the 1984 edition was developed by the CITE Committee on the Development of the Canadian Urban Transportation Capacity Guide. It is a significantly expanded and updated version of the First Edition, and includes techniques that allow the user to analyze different situations and intersection configurations. The Guide helps the user to understand the inter-relationships between a signalized intersection and the various modes of transportation. Canadian information and experience on signal performance is consolidated, reflecting multiple Canadian specifics, while defining a common base for regional differences.

***\$35.00 for CITE Members; \$45.00 for Non-CITE members;  
\$20.00 for CITE student members***

## A TECHNICAL REVIEW OF PEDESTRIAN SIGNALS IN CANADA



Pedestrian (or half) signals have been in use in Canada since the mid-1960s, primarily in large metropolitan areas. This device features signal control for vehicles on the major street and pedestrians crossing the major street, and stop sign control for motorists approaching on the minor street. Where they are used, pedestrian signals are part of the hierarchy of traffic control devices commonly used by transportation professionals to enhance pedestrian safety.

This informational report contains the technical findings from a national review of pedestrian signals and outlines the state of practice for the traffic control device, evaluates effectiveness and safety, and identifies if the current design and application guidelines are still appropriate for Canada.

***Available, free of charge, online through the CITE Bookstore.***

**For additional information, or for a complete listing of all CITE publications, please visit our website at: [www.cite7.org/Book\\_Store/list.htm](http://www.cite7.org/Book_Store/list.htm)**

# CITE Bookstore Order Form



CATEGORY	FORMAT	QTY.	PRICE (\$ CDN)			SUBTOTAL
			ITE Members	Non-ITE Members	ITE Students	
<b>CONFERENCE COMPENDIUMS</b>						
<b>ELECTRONIC VERSIONS</b>						
1997 Joint CITE/WCTA Conference - Vancouver, BC	CD-ROM		Shipping & Handling Only			
1999 Joint AQTR/CITE Conference - Montréal, QC	CD-ROM		Shipping & Handling Only			
2000 Joint Dist.1/CITE Conference - Niagara Falls, ON	CD-ROM		Shipping & Handling Only			
2001 CITE Conference - Calgary, AB	CD-ROM		Shipping & Handling Only			
2002 CITE Conference - Ottawa, ON	CD-ROM		\$5.00	\$10.00	\$5.00	\$
2003 Joint Dist.4/CITE Conference - Winnipeg, MB	CD-ROM		\$5.00	\$10.00	\$5.00	\$
2004 CITE Conference - Monton, NB	CD-ROM		\$10.00	\$15.00	\$5.00	\$
2005 CITE Conference - Saskatoon, SK	CD-ROM		\$15.00	\$20.00	\$5.00	\$
2006 CITE Conference - Banff, AB	CD-ROM		\$20.00	\$25.00	\$5.00	\$
2007 CITE Conference - Toronto, ON	CD-ROM		\$20.00	\$25.00	\$5.00	\$
<b>HARDCOPY/COMBINED VERSIONS</b>						
1997 Joint CITE/WCTA Conference - Vancouver, BC	Hardcopy		Shipping & Handling Only			
2005 CITE Conference - Saskatoon, SK	Hardcopy		\$15.00	\$20.00	\$5.00	\$
2005 CITE Conference - Saskatoon, SK	Hardcopy & CD		\$25.00	\$35.00	\$10.00	\$
<b>TECHNICAL PUBLICATIONS</b>						
CDN Capacity Guide to Signalized Intersections (2nd Edition)	Hardcopy		\$35.00	\$45.00	\$20.00	\$
A Technical Review of Pedestrian Signals in Canada	Hardcopy		Contact Bookstore Manager			

**SHIPPING & HANDLING - Add:**

- 15% of subtotal (min. \$4.00)
- 30% outside of Canada & US (min \$7.50),
- Expedited shipping is available at a cost of \$25.00.

<b>Subtotal</b>	\$
<i>GST: Add 6% goods and services tax BEFORE shipping &amp; handling (GST # 87322 1675 RT0001)</i>	\$
<i>Shipping &amp; Handling: (see box to left)</i>	\$
<b>TOTAL:</b>	\$

## CREDIT CARD OR CHEQUE ACCEPTED!

COMPANY: .....

NAME: ..... TITLE: .....

ADDRESS: .....

CITY: ..... PROV.: ..... POSTAL CODE: .....

TEL #: (.....) ..... FAX #: (.....) ..... EMAIL: .....

RECEIPT WILL ACCOMPANY SHIPMENT  Cheque (attached)  Credit Card (you will be contacted)

Please scan & email or fax the order form to:

Peter A Truch, PEng., CITE Bookstore Manager  
 c/o UMA | AECOM  
 2540 Kensington Road NW  
 Calgary, AB T2N 3S3 CANADA

Tel: (403) 270-9233  
 Fax: (403) 270-0399  
 Email: bookstore@cite7.org





Traffic Engineering  
Transportation Planning  
EA & Road Design

Municipal Engineering  
Water Resources  
Project Infrastructure Management

*Excellence In Engineering Infrastructure*

[www.ColeEngineering.ca](http://www.ColeEngineering.ca)  
100 Renfrew Drive, Suite 100, Markham, ON L3R 9R6  
Tel: 416.987.6161 Fax: 905.940.2064



Calgary, AB  
(403) 273-9001  
Kelowna, BC

- Transportation Engineering
- Transportation Planning
- Project Management
- Municipal Engineering
- Legal Surveys/Geomatics

[www.dawatt.com](http://www.dawatt.com)



Infrastructure  
Environment

Communities  
Facilities

Offices Across Canada and International  
235 Yorkland Blvd., Suite 800, Toronto, Ontario  
416.229.4646

[www.dillon.ca](http://www.dillon.ca)

Expertise across all aspects of  
transportation and transit planning;  
traffic, roadway and bridge engineering.

**EDMONTON**  
Suite 100, 7909 - 51 Ave NW  
780.438.9000 [www.islengineering.com](http://www.islengineering.com)

EDMONTON  
CALGARY  
RED DEER  
GRANDE PRAIRIE  
LANGLEY  
BURNABY  
SQUAMISH

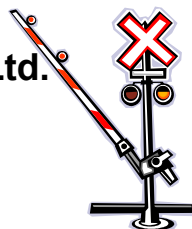
**ISL** Engineering  
and Land Services

Exceptional people.  
Shared success.

Unit 29, 1398 Pelham St., Fonthill, Ont. L0S 1E7

## Jock Valley Engineering Ltd.

- Crossing Design
- Safety Assessments
- Anti-Whistling Assessments
- Interconnection/Pre-emption



R. J. (Bob) Fish, P.Eng.

(905) 401-1300  
[www.jockvalley.com](http://www.jockvalley.com)



84a moody street  
port moody, bc  
canada v3h 2p5

[www.cts-bc.com](http://www.cts-bc.com)

- Traffic Engineering
- Transportation Surveys
- Transportation Planning
- Impact Assessments
- Traffic & Parking Operations

[admin@cts-bc.com](mailto:admin@cts-bc.com)

604.936.6190

604.936.6175



TRANSPORTATION • INFORMATION TECHNOLOGY • WATER

- Traffic Engineering • Transportation Planning
- Intelligent Transportation Systems • Environmental Planning
- Land Development

[www.delcan.com](http://www.delcan.com)

Markham, Ottawa, London, Hamilton  
Niagara Falls, Waterloo, Calgary, Vancouver

Transportation Networks  
Systems Technology  
Urban Land  
Building Facilities



[www.ibigroup.com](http://www.ibigroup.com)

OFFICES LOCATED IN NORTH AMERICA | EUROPE | THE MIDDLE EAST | ASIA



## iTRANS Consulting Inc.

*insight, integrity and innovation*® in:

transportation planning &  
engineering consultants

- Transportation Planning
- Transportation Safety
- Transportation Systems
- Roadway Planning & Design
- Environmental Assessments/  
Functional Planning
- Public Transit



[www.itransconsulting.com](http://www.itransconsulting.com)

1-888-860-1116

Vancouver • Calgary • Cambridge • Toronto • Ottawa • Washington DC



## MMM GROUP

*Building Communities and Public Infrastructure  
for Canada and the World*

80 Commerce Valley Drive East  
Thornhill, ON L3T 7N4

T: 905.882.7202 • F: 905.882.0055

[www.mmm.ca](http://www.mmm.ca)

# TRANSPORTATION

- Planning
- Policy
- Economics
- Environmental Planning
- Traffic Operation / Safety
- Infrastructure Design
- Intelligent Transportation Systems
- Project & Program Management
- Infrastructure Investment Advice



[www.morrisonhershfield.com](http://www.morrisonhershfield.com)

Ottawa | Toronto | Burlington | Calgary | Edmonton | Vancouver

MORRISON  
HERSHFIELD

www.ptsl.com

- Transportation Planning
- Transit Planning
- Traffic Engineering
- Parking Planning
- Traffic Impact Studies



Paradigm Transportation Solutions Limited  
Waterloo, Cambridge, Burlington, Hamilton

Email: info@ptsl.com  
Phone: 519-896-3163  
905-381-2229  
Fax: 1-866-722-5117

## THE SERNAS GROUP

• SRM ASSOCIATES • SERNAS TRANSTECH •

Transportation Solutions for the Public & Private Sectors for over 45 years

- Transportation Planning
- Traffic Engineering
- Class EA Studies
- Road & Structure Design
- Roundabout Design Specialists



Whitby, Toronto, Richmond Hill, Mississauga  
Tel: 905-686-6402, Fax: 905-432-7877

[www.sernas.com](http://www.sernas.com) • [www.roundabouts.ca](http://www.roundabouts.ca)

One Team.  
Infinite Solutions.

Stantec's Transportation group provides comprehensive planning and engineering services for airport and aviation, bridge, rail, roadway, and transit projects.

In Edmonton, call (780) 917-7000

[stantec.com](http://stantec.com)



Offices throughout North America

## synectics



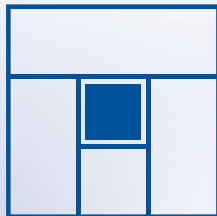
Synectics Inc.

Tel. (905) 704-0763

Toll Free: 1-866-355-6627

[www.synectics-inc.net](http://www.synectics-inc.net)

SAFETY SPECIALISTS



**TSH**  
engineers  
architects  
planners

- Environment
- Transportation
- Infrastructure Renewal
- Buildings
- Land Development & Resources
- Value Engineering

Whitby, Barrie, Bracebridge, Calgary, Cobourg, Kingston, Kitchener-Waterloo, Mississauga, Ottawa, Sault Ste. Marie, St. Catharines

1-800-668-1983  
tsh@tsh.ca [www.tsh.ca](http://www.tsh.ca)

UMA | AECOM

## Transportation Solutions

Road network planning, traffic operations, parking assessment, road safety and transportation policy. We understand your business.

[www.uma.aecom.com](http://www.uma.aecom.com)



- Transportation Planning
- Environmental Assessment
- Municipal Engineering
- Engineering Systems
- Railway Engineering
- Traffic Engineering
- Water Resources
- Bridge Design
- Road Design

URS Canada Inc. - Consulting Engineers  
75 Commerce Valley Drive East, Markham, Ontario L3T 7N9  
Tel: 905.882.4401 Fax: 905.882.4399 E-mail: markham@urscorp.com

# VICTORIA B.C.



BRIDGING THE GAP

2008



## April 26-30, 2008



### CONFERENCE UPDATE

Planning for the 2008 CITE Annual Conference is well underway. The call for papers has closed with over 80 submissions. At present, papers are being reviewed and accepted authors will be contacted in the new year.

The technical tours are planned for Wednesday afternoon (April 30th) and include:

- a bicycle tour of Greater Victoria's Galloping Goose Trail,
- a walking tour of CFB Esquimalt,
- and a tour BC Transit's Douglas Street busway project along with a stop at their hydrogen fuelling station.

We encourage you to arrive in Victoria ahead of the conference or stay later to enjoy our beautiful city, including our museums, Butchard's Gardens, and the Inner Harbour. For those arriving early we have a whale watching tour planned for Sunday morning (April 27th).

Early registration will be available by mid-January. Please visit our website for updates on the technical program, registration and hotel information. We look forward to seeing all of you in Victoria in April.

.....Nadine King, P.Eng.  
2008 CITE & QUAD Conference Chair

www.citebc.ca