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Upcoming Events...

Second Annual Joint Toronto/Hamilton/Southwest Ontario Section Student Presentation Competition and Job Fair Monday, March 15, 2010, Ryerson University

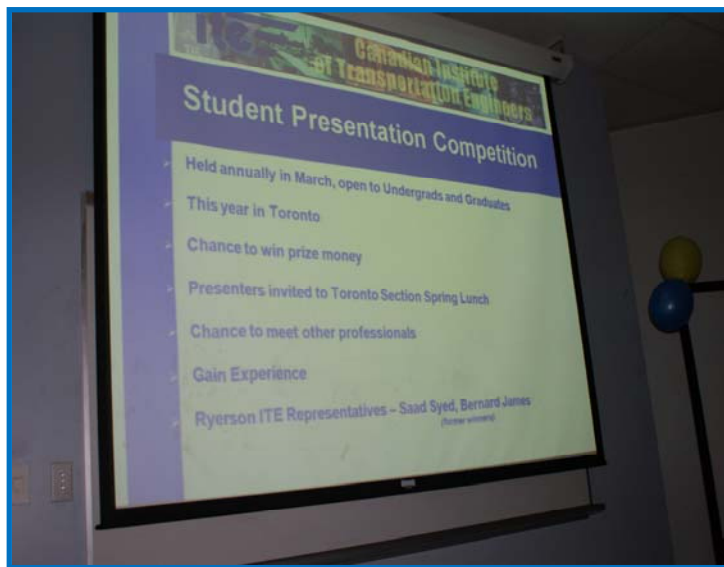
ITE Toronto, Hamilton, and Southwest Ontario Sections invite all transportation professionals to show their support at the Joint ITE Section Student Presentation Competition and Job Fair on Wednesday, March 15, 2010, at Ryerson University.

This event, which has been run as a joint event for 13 years between Toronto and Hamilton, has

been successful in attracting presenters from various schools and fostering student participation in ITE.

Students interested in presenting are encouraged to submit a one-page abstract of not more than 400 words on any topic related to transportation. Details on the call for abstracts are attached to this newsletter. Three presenters in each of the graduate and undergraduate categories will be selected and prizes will be awarded to all participants (\$350 for first place, \$150 for second place and \$100 for third place).

All ITE members are invited to attend the student presentations, which will begin at approximately 7:00 PM.



The Job Fair, scheduled to commence at 6:00 PM, will give students the opportunity to meet with industry professionals, make contacts and learn about the different organizations and employers in our industry. This event also provides employers the opportunity to get to know this year's graduating students and see what kind of research is being undertaken by students at our area universities and colleges.

Employers interested in participating in this event are asked to contact **Mehrak Hakimi** of the Toronto Section at mehrak.hakimi@aecom.com.

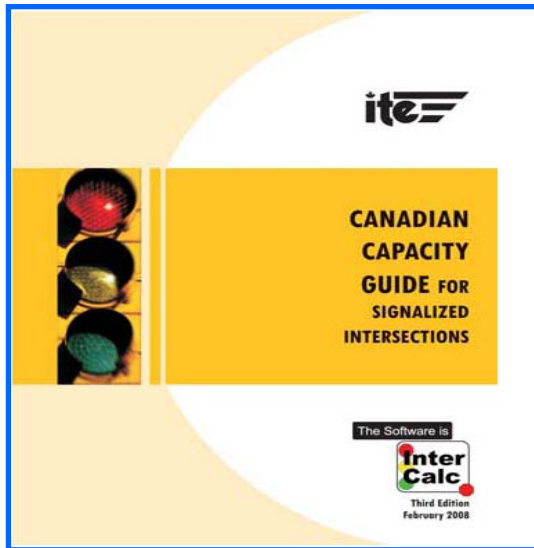
Student Technical Event, Traffic Management Centre Tour Tuesday, March 23, 2010

The Toronto Section is pleased to offer a student tour of the City of Toronto's state-of-the-art Traffic Control Centre, located at 703 Don Mills Road. The tour starts at 3:00 pm on Tuesday, March 23, 2010. All ITE members are welcome, but please pre-register.

To register, please contact our Activities Coordinator **Angela Gibson** at Angela.Gibson@townofajax.com.



Canadian Capacity Guide, Student Competition Monday, March 29, 2010



The Canadian Institute of Transportation Engineers (CITE) announced a new Undergraduate Student Competition based on the Canadian Capacity Guide (CCG) for Signalized Intersections and the InterCalc software. The competition began September 2009, and submissions are due March 29, 2010 (revised date). The winner will be announced in April 2010, and may have an opportunity to present their results at the annual conference in August 2010.

The Competition is an opportunity to use real-world data, analyze it, and develop meaningful conclusions and recommendations regarding traffic operations. CITE is supporting this Competition with prizes of \$500, \$300 and \$200, for 1st, 2nd and 3rd prizes respectively.

The Competition is open to University and College students in a Canadian civil engineering, transportation engineering or transportation planning program. Students must register with the program coordinator at their institution and the contest organizer in order to be notified of any related addenda or news items. To register for the contest email both:

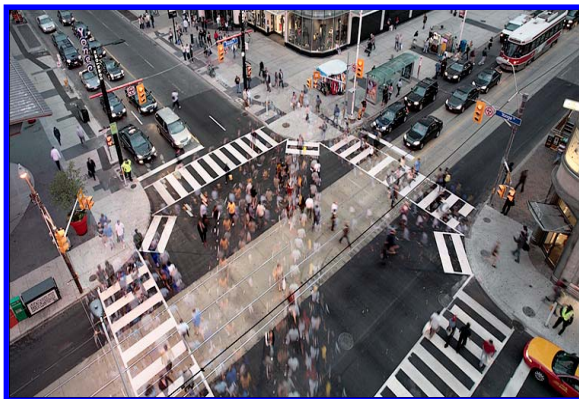
- a) Dan Havercroft – dan.havercroft@mohawkcollege.ca; and
- b) The advisor of the institution you attend. If you do not have an advisor please inform Dan Havercroft.

More information about the contest and registration can be found at:

http://www.cite7.org/scholarships_awards/CCG_Competition.php

For more information, or if you have any questions please contact Dan Havercroft at dan.havercroft@mohawkcollege.ca or Jim Gough at GoughJ@mmm.ca

Spring Luncheon and Sustainable Transportation Seminar Wednesday, April 21, 2010



The ITE Toronto Section will be doing something slightly different for our annual spring luncheon this year. We have teamed with the Hamilton and Southwestern Ontario Sections to bring a joint lunch and seminar on sustainable transportation. The lunch will be followed by an afternoon seminar with speakers on sustainable transportation.

During the lunch hour, we will hear from our ITE International Vice President candidates: Troy Peoples, Rock Miller, and Ray Davis.

The lunch and seminar is being held on April 21, 2010, and more details will follow. Reserve the date now.

The National Society of Black Engineers (NSBE), 36th Annual Convention, March 31–April 3, 2010, Toronto

The National Society of Black Engineers (NSBE) invites everyone to attend their 36th Annual Convention, held March 31 to April 3, 2010 in Toronto. They will be welcoming 10,000 collegiate engineering students, technical professionals, corporations and universities to the Metro Toronto Convention Centre. The convention theme, “Energizing a Global Impact” will center speakers and topics around empowering attendees for global success. The convention will feature keynote speakers, technical workshops, a two-day Career Fair, held on Thursday, April 1 and Friday, April 2, 2010, and a College & Graduate School Fair taking place on Saturday, April 3, 2010. This is the organization’s first annual convention held outside of the United States and is open to EVERYONE!

For more information, please visit the convention website:

<http://convention.nsbe.org/convention2010/>

Analytical Transportation Planning, Five-Day Workshop Using EMME 3, April 12-16, 2010, Toronto

Dr. Ali Mekky will offer a Five-Day Workshop for those who wish to gain a better understanding of transportation planning techniques, models, EMME, and their applications to real-life situations. By attending this comprehensive five-day workshop, you will learn to apply the newest analytical methods to reduce traffic and travel problems and devise better ways of moving people and goods while being mindful of the environmental impacts that transportation has on cities.

The workshop will be held from Monday, April 12 to Friday, April 16, 2010, at the Gemini West room, Ontario Science Centre, 770 Don Mills Road (at the corner of Don Mills Road and Eglinton Avenue East) in Toronto, Ontario, Canada.

To register online please go to <http://www3.sympatico.ca/amekky>. More information about the workshop and how to register is in the attached brochure. The cost of the workshop is \$1250. If you have any question, please call Dr. A. Mekky at (905) 889-7092 or contact him via email at AMekky@sympatico.ca

Recent Events...

2010 Ryerson Civil Engineering Symposium, Ryerson University, Wednesday, February 10, 2010



The Ryerson Chapter of the Canadian Society for Civil Engineering (CSCE) invited members from your ITE Toronto Executive to present at the Ryerson Civil Engineering Symposium about careers in transportation to civil engineering undergraduate students.

Your local section representatives, **Mehemed Delibasic** with the AECOM Canada Ltd. and **Mark Jamieson** with BA Group, gave an overview of potential careers within the transportation field, their work and project experience, potential employers, and what employers are looking for when hiring.

Other industry representatives at the 2010 Ryerson Civil Engineering Symposium included: Hydro One, Ministry of Transportation, and EllisDon Corporation.

It was an excellent afternoon where future engineers were able to hear from fellow professionals on a range of civil engineering disciplines. In addition, both events gave students the opportunity to meet with industry professionals, make contacts and learn about the different organizations and employers in our industry.

Special thanks to Ryerson University, the Ryerson chapter of CSCE, and professor Khaled for hosting the event and making it a success.



ITE Toronto Section Annual General Meeting and Christmas Luncheon – December 4, 2009

The Annual General Meeting and Christmas Luncheon was held on December 4th of last year with our keynote speaker being **Geoff Wright, Director of the Transportation Project Office at the City of Mississauga**. Geoff gave us insights on the development and implementation of the Mississauga BRT project (also referred to as the Mississauga Transitway), the role of the Transitway in both the local and regional transit systems, the vision for the operations within the Transitway, and the challenges and opportunities encountered along the way.



Our section was also able to recognize five members who became Life Members of ITE in 2009: Imants Hausmanis, George Horning, Les Kelman, Jeff Mark, and Joel Miller.

A special thanks to BA Group who provided tickets for a draw. The draw managed to raise \$230 for scholarships awarded by CITE – the funds were matched by ITE Toronto Section for a total contribution of \$460.



Tim Lawson from the TTC was recognized with a certificate for his service on the Toronto Section Executive and served as past president in 2010.

This year, we elected two new representatives to the Toronto Section Executive: **Matthew Davis** from IBI Group will become the Membership Coordinator and **Angela Gibson** from the Town of Ajax will become the Activities Coordinator for 2010.

2009 Joint ITE Toronto Section / Ontario Traffic Conference (OTC) Traffic Signals ITS Technologies Workshop, November 24, 2009

The ITE Toronto Section teamed with the Ontario Traffic Conference (OTC) to bring to you a full-day workshop on the Traffic Signals ITS Technologies. Attended by over 70 participants, speakers presented featuring information about exciting projects and technology applications where new tools are being used to improve the way traffic signals operate and expand the role of the signalized intersection.

The presenters and topics were:

- ❖ Ron Whitelock, HDR iTRANS; Traffic Signals ITS Overview
- ❖ Mike Corby, IBI Group; System Interoperability for Traffic Signals Technologies
- ❖ City of Ottawa staff, TBD; EMS Traffic Signal Pre-Emption Topic
- ❖ Raj Bissessar & Natasha Gomes Jayaweera, City of Toronto, Pedestrian Scramble Crossing-Phasing
- ❖ Frank Fong, City of Toronto; Tim Lawson, TTC; Donald Maas, Peek Traffic; Building Toronto's Transit Signal Priority Features into an Advanced Transportation Controller
- ❖ Mike Flanagan, City of Mississauga; Communications Infrastructure for Today's ITS Solutions
- ❖ Egerton Heath, Waterloo Region; Raj Bissessar, City of Toronto; Simon Tam, Town of Oakville; Signal Systems Development-Challenges and Lessons Learned

The sessions included ITS Concepts with a focus on traffic signal technology today, and a challenge to integrate new technology into existing systems and to design traffic signal systems that anticipate future technology. It also outlined the opportunities and challenges associated with the use of ITS technologies with traffic signal systems and the issues surrounding system interoperability, usage of GPS technology in emergency vehicle detection, the impacts of the installation of the Pedestrian Priority Phase on pedestrians crossing intersections, transit signal priority, and experiences in the development of traffic signal systems.

Participants came away with a better understanding of role of the Traffic Signals ITS Technology applications and some of the initiatives currently being undertaken.

Participants came away with a better understanding of role of the Traffic Signals ITS Technology applications and some of the initiatives currently being undertaken.

ITE Contact Information

If you or one of your colleagues are not receiving the monthly ITE Journal, the quarterly CITE Transportation Talk, periodic web communication correspondence from CITE, and/or the ITE Toronto Section Newsletters... then the contact information we have may not be up to date in our respective databases. ITE International, CITE and the ITE Toronto Section maintain separate membership databases. Every effort is made to keep the three databases “in agreement”; however, there are instances where changes in membership have not been instituted across the databases.



For **ITE Journal, Invoicing and other ITE international correspondence, Transportation Talk, and the Web Communications Centre**, your current contact information can be viewed and changed at www.ite.org under the “my profile” tab on the left side. It provides information on what your login and password are based on your ITE membership number and name.

For **ITE Toronto Section Newsletters**, your current contact information can be checked with our **Membership Coordinator** Matthew Davis at matthew.davis@IBIGroup.com. The ITE Toronto Section distributes their correspondence solely by e-mail. If you are receiving the Toronto Section newsletters, your e-mail contact information is correct and there is no need to confirm mailing address information.

Do You...

- ❖ Have any interesting transportation-related articles or photos that you would like to see in our newsletter? Send them electronically to our **Communications Coordinator** Mehemed Delibasic at mehemed.delibasic@aecom.com.
- ❖ Have any questions for the ITE Toronto Section? Contact our **President** David Argue at David.Argue@hdrinc.com or **Vice-President** Rahul Mehra at rmehra@ibigroup.com.
- ❖ Want to learn about Job Posting opportunities offered by the ITE Toronto Section and CITE? Contact our **Membership Coordinator** Matthew Davis at matthew.davis@IBIGroup.com.

Your ITE Toronto Section 2010 Executive

President	David Argue HDR iTRANS	Tel: (905) 882-4100 ext. 5228 Fax: (905) 882-1557 David.Argue@hdrinc.com
Vice-President	Rahul Mehra IBI Group	Tel: (416) 596-1930 Fax: (416) 596-0644 rmehra@ibigroup.com
Secretary	Mark Jamieson BA Consulting Group Ltd.	Tel: (416) 961-7110 ext. 160 Fax: (416) 961-9807 jamieson@bagroup.com
Treasurer	Nixon Chan MMM Group Ltd.	Tel: (905) 882-4211 ext. 6306 Fax: (905) 882-7277 ChanN@mmm.ca
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Communications Coordinator	Mehemed Delibasic AECOM Canada Ltd.	Tel: (905) 477-8400 ext. 309 Fax: (905) 477-1456 mehemed.delibasic@aecom.com
Membership Coordinator	Matthew Davis IBI Group	Tel: (416) 596-1930 Fax: (416) 596-0644 matthew.davis@IBIGroup.com
Activities Coordinator	Angela Gibson Town of Ajax	Tel: (905) 619-2529 ext. 3209 Fax: (905) 686-0360 Angela.Gibson@townofajax.com
Past President	Julia Salvini Metrolinx (Greater Toronto Transportation Authority)	Tel: (416) 874-5921 Fax: (416) 874-5901 Julia.Salvini@metrolinx.com



CANADIAN INSTITUTE OF TRANSPORTATION ENGINEERS
 Toronto, Hamilton, and Southwest Ontario Sections

*2nd Annual Joint ITE Section
 Student Presentation Competition and Job Fair*

Call for Abstracts

The Toronto, Hamilton, and Southwest Ontario sections' Joint Technical Presentation Competition for Students is a unique event organized each year by the Institute of Transportation Engineers to help foster interest in the field of transportation. Toronto and Hamilton sections have held it jointly for thirteen years and Southwest Ontario section joined last year. The competition offers students an opportunity to present a topic of interest in transportation before their peers as well as before practising transportation professionals. While technical competence is an important element in the event, the primary focus of the competition is on the ability to present effectively to one's peers and the public.

Interested students are invited to submit a one-page abstract of not more than 400 words on any topic related to transportation. A shortlist of three (3) graduate and three (3) undergraduate students will be selected and invited to give a 10 – 15 minute presentation on the evening of Monday, March 15, 2010 at Ryerson University. A short question and answer period will be provided after each presentation. Details of the event are provided below.

A Job Fair, which is open to all students, will also be hosted prior to the student presentation competition (6:00 to 7:00 PM). The Job Fair will allow students the opportunity to speak with industry professionals, make contacts and learn about the different organizations or companies.

Submission of Abstracts:	Tuesday, March 2 nd , 2010
Notice of Acceptance:	Friday, March 5 th , 2010
Date of Presentation:	Monday, March 15 th , 2010, 7:00 – 9:00 PM
Location:	Ryerson University, Toronto, Ontario
Prizes:	\$350 for the top presentation, \$150 for second place, and \$100 for third place in the undergraduate category \$350 for the top presentation, \$150 for second place, and \$100 for third place in the graduate category
Benefits:	<ul style="list-style-type: none"> ◆ Practice presenting in a low-pressure environment ◆ Make contacts with potential employers ◆ Share and exchange ideas with other students
Invited Schools:	Mohawk College, McMaster University, University of Toronto, Ryerson University, University of Waterloo, University of Windsor.

Interested students should submit abstracts to either:

<p>Mehrak Hakimi, EIT. Student Chapter Liaison, ITE Toronto Section</p> <p>AECOM. 300 - 300 Town Centre Boulevard Markham, ON L3R 5Z6 T:905.477.8400 Ext 337 F:905.477.1456 E-mail: mehrak.hakimi@aecom.com</p>	<p>Rick Walshaw Student Chapter Liaison, ITE Hamilton Area Section</p> <p>Mohawk College Engineering Technology Faculty T:905-575-1212 x3366 E-mail: Richard.Walshaw@mohawkcollege.ca</p>	<p>Kari Fellows, P.Eng., PTOE President, ITE Southwestern Ontario Section</p> <p>c/o Ministry of Transportation 659 Exeter Road London, ON N6E 1L3</p> <p>Tel: 519 873-4356 Fax: 519 873-4388 E-mail: Kari.Fellows@ontario.ca</p>
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Note: Abstracts in Microsoft Word format will be accepted by e-mail
 Please include your address and telephone number with all communication

REGISTRATION INFORMATION

COURSE NOTES

Each participant will receive a comprehensive course notebook "Analytical Transportation Planning" (ATP) (700 pages) as well as the book "Transportation Modelling Using Emme (EMME/2-Emme 3)" 500 pages. Electronic files with solved examples and useful macros will be provided. The 12 chapters in the ATP book are:

CHAPTER 1	URBAN TRANSPORTATION PLANNING
CHAPTER 2	DATA
CHAPTER 3	THE TRANSPORTATION MODEL
CHAPTER 4	TRIP GENERATION MODELS
CHAPTER 5	TRIP DISTRIBUTION MODELS
CHAPTER 6	MODAL SPLIT MODELS
CHAPTER 7	TRIP ASSIGNMENT MODELS
CHAPTER 8	EVALUATION OF TRANSPORTATION MODELS
CHAPTER 9	ESTIMATION AND UPDATING O-D MATRICES FROM TRAFFIC COUNTS
CHAPTER 10	EMME TRANSPORTATION PLANNING PACKAGE
CHAPTER 11	TOLL ROAD TRAVEL DEMAND AND REVENUE ESTIMATION
CHAPTER 12	LABS/ EXERCISES

LOCATION

The course will be held at the Gemini West room, Ontario Science Centre, 770 Don Mills Road (at the corner of Don Mills Road and Eglinton Avenue East) in Toronto, Ontario, Canada. Parking is free.

For overnight accommodation, please contact Westin Prince, (416) 444-2511, Crowne Plaza Hotel (416) 449-4111, or see the web site <http://themegacity.com/maps/downtownmap.htm>

HOURS OF ATTENDANCE

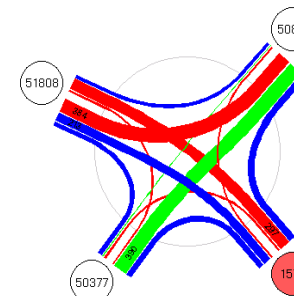
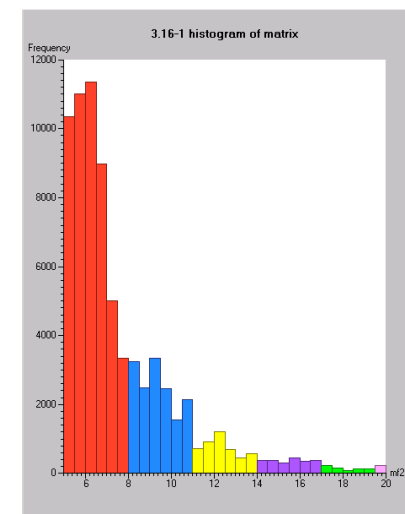
The course starts at 8:30 a.m. and finishes at 4:30 p.m. Please arrive 15 minutes earlier on the first day for registration and coffee.

QUESTIONS?

If you have any question, please call Dr. A. Mekky at (905) 889-7092 or contact him via email at AMekky@sympatico.ca

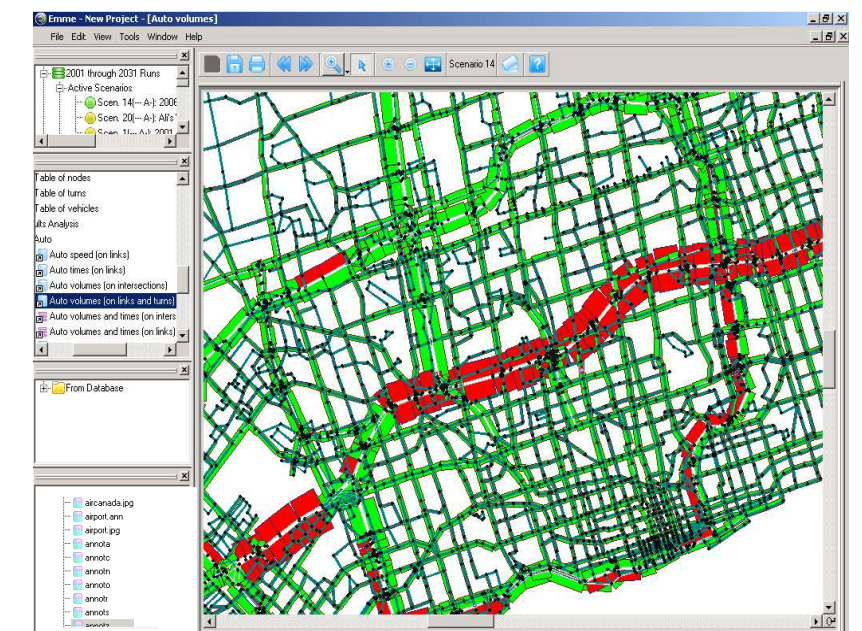
Learn Fast

If you bring your laptop to the class, you will be able to get Emme 3 installed on it during the course



ANALYTICAL TRANSPORTATION PLANNING

Five-Day Workshop Using Emme 3
April 12-16, 2010, Toronto



Registration Form

Yes, please reserve a place for me and for the following participants at the workshop
Analytical Transportation Planning, in Toronto

Please accept payment for \$ _____ (CD\$1250/US\$1250 per person) made payable to:
Dr. A. Mekky. Mail to: Alican Consultants, 54 Tanjo Court, Thornhill, Ontario, L4J 3B4, CANADA

Please register the following individuals:

Dr. Mr. Ms. _____ Position: _____

Email Address _____

Dr. Mr. Ms. _____ Position: _____

Email Address _____

Company _____

Address _____

Phone Number _____

Or Register on line:

<http://www3.sympatico.ca/amekky>

Five-Day
Workshop

LIMITED ENROLMENT
REGISTER TODAY!

Instructor
Dr. A. Mekky, P.Eng.

Why You Should Attend

Transportation planning models and techniques are powerful tools for improving mobility and accessibility in cities and regions. By studying travel patterns and using transportation planning techniques, planners can objectively evaluate future transportation investments.

By attending this comprehensive five-day workshop, you will learn to apply the newest analytical methods to reduce traffic and travel problems and devise better ways of moving people and goods while being mindful of the environmental impacts that transportation has on cities. You will learn to calibrate and test transportation models, to evaluate their effectiveness and usefulness for varying requirements and scenarios.

This course uses extensive case studies. Hands-on practice with transportation planning methods will increase your capabilities with these techniques.

Among the materials covered during this workshop, you will benefit from learning more about:

- How to choose a zoning system;
- How to choose the type of model to use in Trip Generation, Trip Distribution, Modal Split and Trip Assignment;
- What is the meaning of "Entropy" and how it can be used to generate a family of distribution models;
- What is "Utility" in the context of transportation planning;
- What is the difference between LOGIT and PROBIT models;
- How Equilibrium Assignment differs from other types of trip assignments;
- What are the strengths/ weaknesses of mathematical modelling;
- And much, much more!

Who Should Attend

This five-day workshop is for those who wish to gain a better understanding of transportation planning techniques, models, EMME and their applications to real-life situations. You should consider enrolling if you are any of the following:

- Traffic engineer
- Transportation engineer / planner
- Urban transit planner
- Travel demand researcher
- Land-use planner
- Transportation economist
- Civil engineer

ANALYTICAL TRANSPORTATION PLANNING WORKSHOP PRELIMINARY AGENDA

Day 1: Trip Generation & Trip Distribution

- Introduction
- Trip Generation (Multiple Regression, Multiple Classification & Category Analysis Models)
- Trip Distribution (Growth Factor & Gravity Models)

Day 2: Modal Split and Trip Assignment

- Modal Split (Logit & Probit Models)
- Trip Assignment (Equilibrium Assignment Method +)

Day 3: Emme 3; Base Concepts & Interactive Data Entry

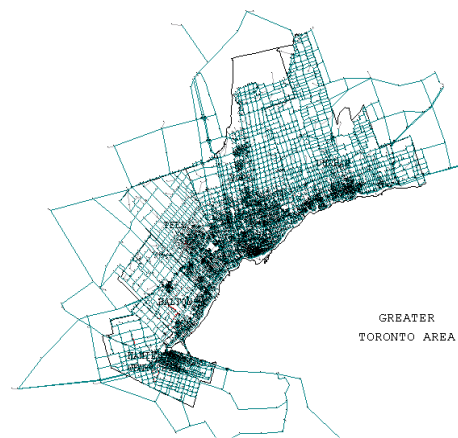
- Emme 3: Concepts & Graphical User Interface (GUI)
- Emme 3: 4 Explorers; Data Explorer, Worksheet/ Table Explorer, View Explorer, Media Explorer
- Emme 3: Worksheet/ Tables
- Emme 3: Layer Controls (Filters, Style & Style Index)
- Emme 3: Editing Toolbar (File, Edit, View, Tools, Help)
- Emme 3: Displaying Network Elements
- Emme 3: Tools; Network Editor, Prompt Console
- Emme 3: Scenarios, modes, centroids, nodes & links
- Emme 3: Build databank and use Emme 3 Interactive Mode to enter and check data. Prepare and do an assignment (Prompt). Check results and output them.

Day 4: Emme 3; Batch Entry, Matrices & Modelling

- Emme 3: Creating Scenarios & Comparing them
- Emme 3: Using Batch Mode to input data.
- Emme 3: Transit Modelling & Transit Assignment
- Emme 3: Model future origins and destinations using trip generation models developed by you and display results. Use those estimates to calculate the future (2021) origin-destination matrix for the City (trip Distribution). Assign the matrix and show network volumes and growth.

Day 5: Emme 3; Modelling, Scenario Comparisons

- Network & Configurable Attribute Calculators
- Emme 3: Expressions & Extra attributes
- Emme 3: Matrices and Matrix Calculator
- Emme 3: Introduction to Macros in Emme 3
- Emme 3: Modify the Emme 3 dimensions of the GTA/ City of Winnipeg databanks & Customize
- Emme 3: Create scenarios for the GTA/ City of Winnipeg with & without a new Hwy/ bridge & plot origins, destinations, volumes, speeds, travel times, trip length-frequency distribution. Compare the situation before & after building the facility.
- Emme 3: Check the Braess Paradox.



10 IMPORTANT REASONS TO ENROL

1. Make better decisions by employing the latest planning tools.
2. Make easier decisions because you are using thoroughly developed models.
3. Make quicker decisions by utilizing computers more effectively.
4. Use PC Automation to reduce margins of error and potential financial losses.
5. Increase the successes of your projects through improved understanding of the latest transportation techniques.
6. Avoid modelling errors and pitfalls that could cost your organization dearly.
7. Identify shortcuts and avoid mistakes by consulting your instructor on problems you face today.
8. Broaden your experience by networking with peers responsible for transportation planning in government and in the private sector.
9. Increase your job satisfaction, as you will be better equipped to excel.
10. Update your skills and knowledge in the transportation modelling field.

Workshop Benefits

One primary benefit of attending this comprehensive, five-day workshop is sharing your practical problems with a small group of about ten to fifteen fellow planning professionals. As a working group, you will share expertise. You will help one another explore solutions to specific transportation planning problems. Dr. Mekky will be on hand throughout to lend his expert assistance.

During the Workshop, you will learn modelling and Emme. But even if your present job does not require you to directly use these tools, you will become familiar with them, and you will be able to make a sound judgement if you are managing a consultant/ employee who uses them.

Emme 3 Practice

As a participant in this course you will develop hands-on experience using Emme 3. It is one of the world's most powerful transportation software packages. It is widely used by more than 600 transportation organizations in North America, Europe, and Asia.

Emme 3 provides a flexible environment for transportation model development, calibration and validation. The software's main features include the following:

- Equilibrium assignment
- Bi-modal assignment
- Variable demand assignment
- Impressive graphics

Participants in this course should have a working knowledge of Excel. Exercises include calibrating Trip Generation and Trip Distribution models using Excel and Emme 3. These practical sessions will help you understand the details of modelling in terms of their application to your area. Bring your laptop to the class and speed up your ability to learn and exercise with Emme 3.

ABOUT THE INSTRUCTOR

Dr. A. Mekky, P.Eng. earned his Ph.D. in Transportation Planning in 1977. He is a Senior Policy Advisor and Adjunct Professor (Ryerson University) with a wide teaching experience, having instructed undergraduate and graduate students in Traffic and Transportation Engineering and Planning in Canada, USA, Europe & the Middle East.

Dr. Mekky has extensive experience in developing various kinds of mathematical and Monte Carlo planning models. He worked in municipal and provincial governments as well as in the private sector in developed and developing countries for more than 30 years. He is a member of the Association of Professional Engineers of Ontario and a Fellow of the ITE.

