



## CITE STUDENT COMPETITION

### CANADIAN CAPACITY GUIDE FOR SIGNALIZED INTERSECTIONS

The Canadian Institute of Transportation Engineers (CITE) is excited to announce a new Undergraduate Student Competition based on the Canadian Capacity Guide for Signalized Intersections and the *InterCalc* software. The competition is sponsored by MMM Group Limited ([www.mmm.ca](http://www.mmm.ca)) and BA Group ([www.bagroup.com](http://www.bagroup.com)).

#### ***The Competition***

The competition involves using the Canadian Capacity Guide for Signalized Intersections (CCG) and the supporting *InterCalc* software to analyze the operation of a signalized intersection and identify a cost effective improvement strategy. The exercise can be completed within a few hours, depending on user familiarity with signalized intersection analysis procedures.

All input material (including the software) is provided. The CCG (in PDF format) and the educational version of *InterCalc* are available as free downloads via [http://www.cite7.org/scholarships\\_awards/CCG\\_Competition.php](http://www.cite7.org/scholarships_awards/CCG_Competition.php).

The *Canadian Capacity Guide (CCG)* has been developed by Canadian transportation professionals as a comprehensive guide to planning, designing and evaluating signalized intersections. It is a rigorous methodology ideal for training young professionals, and provides transparent reporting for reviewing agencies. The CCG is recognized as a national reference guide by the Transportation Association of Canada (TAC) and CITE.

*InterCalc* is the recommended software for implementation of the signalized analysis procedures in the Guide. Other features include the following:

- Unsignalized intersection analysis based on HCM 2000 methodology;
- The Traffic Volume Calculator module which uses traffic layers to create multiple analysis scenarios;
- Project-based Scenario Manager stores multiple analysis scenarios in one file; and
- Synchro data files can be imported into *InterCalc*.

#### ***Why Enter this Student Competition***

- *Cash prizes* - \$500 for first, \$300 for second and \$200 for third
- *Recognition in the industry* - Transportation consulting firms and public sector agencies will recognize the added value of individuals that can demonstrate knowledge of traffic engineering and related software experience;
- *Support to travel to the CITE annual conference* - The top entry will also be invited to the next CITE conference, with free registration, a \$1,000 travel/accommodation allowance, and recognition in the awards banquet.

#### ***How to Enter the Competition***

Contact Dan Havercroft at [dan.havercroft@mohawkcollege.ca](mailto:dan.havercroft@mohawkcollege.ca) to register – and include your name, institution, year of study, and your ITE student chapter advisor's name and contact email. Dan will provide you with the data you need.

Completed entries (maximum one per student) should be returned to Dan and your advisor before **March 15, 2012**. All submissions will be reviewed by a panel of experienced CCG users. The winning entries will be announced by mid-April, 2012, to allow the winner time to plan their trip to the CITE Conference in Winnipeg.