



TRAFFIC SIGNALS ITS TECHNOLOGIES WORKSHOP

A JOINT ONTARIO TRAFFIC CONFERENCE & ITE TORONTO EVENT



Paramount Conference Centre

November 24, 2009 - 9:00am—3:30pm

222 Rowntree Dairy Road, Woodbridge

(In the 400/407 area, off Weston Rd.)

Workshop Overview

9:00—9:40

Session 1: Traffic Signals ITS Overview

Presenter: Ron Whitelock, HDR iTRANS

This presentation will introduce ITS Concepts with a focus on traffic signal technology, provide a 'how we got here' path, and look at where ITS is today.

9:40—10:20

Session 2: System Interoperability for Traffic Signals Technologies

Presenter: Mike Corby, IBI Group

It's a challenge to integrate new technology into existing systems and to design traffic signal systems that anticipate future technology. In addition, the need for our signal systems to talk to one another across municipal boundaries is becoming increasingly important. This presentation will outline the opportunities and challenges associated with the use of ITS technologies with traffic signal systems and the issues surrounding system interoperability.

10:20—10:40 BREAK

10:40—11:20

Session 3: Traffic Signal Pre-Emption

Presenter: Motaz Aladas, City of Ottawa

This session will provide an overview of the City of Ottawa's use of GPS technology in emergency vehicle detection. They will share their experience in implementing the technology - both in the vehicles and related system requirements - and working with it over the last several years.

11:20—12:00

Session 4: Pedestrian Scramble Crossing: Phasing

Presenter: Raj Bissessar & Natasha Gomes Jayaweera, City of Toronto

This presentation will provide an evaluation of the Pedestrian Priority Phase (PPP) installed at the Yonge St/Dundas St intersection in Toronto on August 28, 2008. The presentation will discuss the operational issues that developed during and after the installation process, the implementation process and design elements that were given special consideration. It then will focus on the "before" and "after" studies that were conducted to evaluate the impacts of the installation of the PPP on pedestrians, vehicular traffic and transit.

Workshop Overview (cont.)

12:00—12:40 LUNCH

12:40—1:40

Session 5: Building Toronto's Transit Signal Priority Features into an Advanced Transportation Controller

Presenters: Frank Fong, City of Toronto; Tim Lawson, TTC; Donald Maas, Peek Traffic

This presentation and panel discussion will summarize the project to integrate Toronto's existing and planned transit signal priority (TSP) features into Peek Traffic's ATC-1000 controller, developed as part of a unique RFQ for 1000 controllers/cabinets. This project incorporates considerable TSP functionality into a phase-based controller, including 5 green extension algorithms, phase truncation, calling/extending special phases, skipping or shifting phases, 4-way TSP and a new "Toronto Offset Correction" mode to return to coordinated operation.

1:40—2:00 BREAK

2:00—2:40

Session 6: Communications Infrastructure for Today's ITS Solutions

Presenter: Mike Flanagan, City of Mississauga

The ability to remotely control signalized intersections has been a reality for decades, and the ability to monitor them nearly as long. These "abilities" have evolved with the technology, and a newer ability to manage the road network has sprouted. The presentation will discuss briefly this history, the circumstances that bring us where we are today, and how we are going to meet the challenges of the future, with robust and flexible communications networks.

2:40—3:30

Session 7: Signal Systems Development—Challenges and Lessons Learned

Presenters: Egerton Heath - Waterloo Region , Raj Bissessar—City of Toronto and Simon Tam—Town of Oakville

Representatives from across the province will talk about their experiences in the development (and in some cases replacement) of traffic signal systems. Each representative will speak briefly about their own experience and then workshop participants will have the opportunity to ask questions of the panel.

Traffic Signals ITS Technologies Workshop

OTC or ITE Members: \$189 + 5% GST

Non-members: \$219 + 5% GST

Students: \$59 + 5% GST

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REGISTRATION FORM:

Check if you are: an OTC member _____ ITE member _____

Name _____ Title _____

Organization _____

Address _____ City _____ Postal Code _____

Phone _____ Fax _____ E-mail _____

Method of payment (circle one):

Please invoice me

Please charge my VISA card

Card number Expiry date Name on card _____

Signature _____

Fax your registration form to 647-346-4060 or e-mail marco@otc.org

Online registrations accepted at <http://www.otc.org>

Have a question? Call Marco D'Angelo at 647-346-4050.

