

A Message from the Chairman



As you read this, the Year of the Ox will begin. The Ox is determined and strong. It perseveres. That is fitting also for ITS Canada in this New Year. Our economies are being challenged and our members are working harder to bring in the results they need.

On the other hand, as governments around the world work to keep their economies healthy, large infrastructure projects are being planned. Roads, transit, rail and air routes are being improved.

Some \$7 billion in federal infrastructure has just been announced. It presents many opportunities for us.

ITS Canada, like the Ox, is determined and strong, thanks to its members. We are starting 2009 with a new full-time Executive Director to enable us to provide you, our members, with 'more bang for your buck'. Our market intelligence will strengthen this year, as will our proactive ability to provide you with the data you need to make effective business decisions. We will enhance our relationships with our various stakeholders, including Transport Canada, its provincial colleagues, and the many sister associations we have across Canada and around the world. In doing that, our membership will also expand, and we will become even stronger.

We had a very successful mission to the ITS World Congress in New York, with an overcapacity workshop and networking session, and hundreds of new international contacts made, in your interest. Similarly, ITS Canada will be leading our members to the ITS World Congress in Stockholm in September and, for the first time, we will have a full ITS Canada stand, on its own, close to our European, American and Japanese colleagues. We would love to see you there also, exploring the many global opportunities that will present themselves. Let us know, as we are there to assist you, and will do everything we can to provide you with the needed tools to succeed!

ITS Canada is looking forward to our Annual Conference and General Meeting in Edmonton (May 10-13) and we want to see you there! We also want ITS Canada to reflect our membership and, to that end, I want to remind you that our election process is now in flight. At our Annual General Meeting in Edmonton, we will be installing the new Board, and we want you to be part of it. Please watch for the notices regarding the election process, and contemplate where you can best serve your industry. Speak with any Board Member or Secretariat staff for further information.

Joseph Lam
Chairman, ITS Canada

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Submissions or comments can
be emailed to
itscanada@itscanada.ca.



Visit ITS Canada's website at
www.itscanada.ca



ITS Canada News

ITS Canada Announces Election for Board of Directors

ITS Canada's current Board of Directors was elected in May 2007 for a two-year term. The next election will be held in March 2009, with results confirmed by a vote of the members at the Annual General Meeting, to be held May 10, 2009, in Edmonton, Alberta. You are invited to be part of the team that will influence and guide the future of ITS in Canada. We are moving ahead in exciting times and your input, as a Board member or voter, is critical. Please consider providing your skills to serve your industry!

Nominations for Directors are underway. The closing date will be March 9, 2009.

Nomination Process: Individual, Corporate and Sustaining Corporate Members in good standing are invited to submit their nominations to ITS Canada using the Nomination Form that is available online at www.itscanada.ca/election. Nominations must include the signatures of two nominators as well as the candidate, and a short candidate biography following the guidelines included online. Questions may be addressed to ITS Canada's Executive Director, Carl Kuhnke at Telephone (905) 604-4734 or by email at carl.kuhnke@itscanada.ca.

One of the nominators may be a representative of the same Corporate or Sustaining Corporate member organization as the candidate. This is not a requirement. Both nominators must be members in good standing of ITS Canada.

Nomination forms and biographies should be mailed, faxed or emailed (PDF format) to:

ITS Canada
5694-4 Highway 7 East, #402
Markham, Ontario L3P 1B4
Fax: (905) 294-1050
Email: itscanada@itscanada.ca.

An electronic copy of your biography, following the guidelines posted online, should also be forwarded to itscanada@itscanada.ca. Full details regarding the role and responsibilities of an ITS Canada Director have also been posted online.



The complete slate of candidates will be announced immediately following closing of nominations, and a 10-day campaign period will close on or about March 22. An online election process will follow, with balloting ending on or about April 13, 2009.

Voting Process: Elections are held every two years. In the 2009 election, all 16 positions of the Board will be filled. In subsequent elections, beginning in 2011, eight positions will always be vacant. More information about the voting process will be provided in ITS Canada's March newsletter.

Note that Corporate members with 5 votes may indicate to the Secretariat (itscanada@itscanada.ca) that either the Primary Contact will vote all 5 ballots, or that others within that organization will have votes. If that is the case, we will require their email addresses, as the voting will be done online. A separate email will solicit those addresses or a confirmation that the Primary Contact will be voting all 5 votes.



Plan now to attend ITS Canada's Annual Conference, being held in Edmonton on May 10 to 13, 2009.

Highlights will include an extensive technical program that will bring you the latest information, as a result of significant response to the Call for Abstracts.

Delegates ... Register online and pay by March 6, to enjoy early registration discounts.

Exhibit booths and sponsor opportunities can also be booked through the website.

www.itscanada.ca/edmonton2009



ITS Canada News

British Columbia ... Canada's Current Hotbed of ITS Deployment

By Keenan Kitasaka, TransLink

The Province of British Columbia and in particular, the Metro Vancouver Region, is gearing up for the upcoming 2010 Olympics, and is a hotbed of activity with regard to intelligent transportation deployments.

In 2008, TransLink re-aligned some of its business units to provide a common direction for IT services, and to improve coordination for both internal and external projects. The ITS Department moved from the Capital Management and Engineering division to a new division called "Business and Technology Services", under the direction of the CIO and VP of Business Technology Services, Terry Peterson. For the first time, technology services as well as other departments involved in technology are under the same executive, allowing TransLink to better coordinate the provision of services. The division also includes two other departments: Technology Planning and Architecture, and Business Analysis and Solutions. As a division, Business and Technology Services is responsible for all corporate enterprise IT and ITS projects and initiatives.

Some of the key ITS projects currently underway include:

iMove ... TransLink's regional traveller information web portal. Launched in 2007, the ITS Department continues to develop the back-end systems to support real-time data for the front end. Maintenance Release #2 will provide functional improvements as well as new project development to provide data and information to be displayed on iMove.

RCRS ... Regional Condition Reporting System, a tool that allows transportation agencies, particularly municipalities, to implement planned events such as construction projects and events into iMove. Continuing work in 2009 will include interfaces with E-Comm, our 911 call centre, and Drive BC, the BC Ministry of Transportation and Infrastructure's system. With these direct interfaces, information will automatically go directly into iMove from E-Comm and Drive BC. We are also working with the City of Vancouver to develop a direct interface to their system called "The Road Ahead". In total, about two-thirds of the 21 or 22 municipalities in Greater Vancouver Area use RCRS.

IRSS ... Integrated Regional Signal System supports the integration of signal operations across jurisdictional boundaries, allowing municipal signal networks to talk to each other and coordinate timing plans. Each municipality typically coordinates their signals, particularly along major corridors; IRSS facilitates coordination between neighbouring municipalities.

In 2007, the IRSS pilot project integrated signals at 11 intersections along the 200th Street and Fraser Highway corridors under the jurisdiction of the Township of Langley, the City of Langley, the City of Surrey and the Ministry of Transportation. The final project report for the pilot was completed in September 2008, showing before-and-after comparisons that document the benefits.

Work is also underway to develop an interface to ICONS, a higher-end signal management system deployed in the Township of Langley, to maintain the operational benefits of the IRSS project. TransLink continues to pursue additional potential corridors with other municipalities.

Another IRSS project is the Rail Advance Warning System (AWS), which detects the arrival of trains about five minutes before they reach at-grade crossings on the IRSS pilot corridors, and displays this status information to drivers and to the Langley Fire Hall, which is south of the rail corridor. This information will allow drivers and fire hall staff to change their route appropriately to one of several grade-separated corridors. Funding is provided through the Roberts Bank Rail Corridor Project.

The system will detect the presence, direction, speed and length of train, and will run the algorithms to predict when the train will arrive and how long to display the message. Micro-simulation models have already been done; the initial design work will start in 2009, in a phased approach, likely with about 10 signs at key locations that will provide the most benefit. Positive payback is anticipated with more than 10 percent diversion; the greater the diversion, the higher the benefit.

British Columbia ... Canada's Current Hotbed of ITS Deployment

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Regional Detectorization Strategy ... Almost complete, this project examines the primary traffic corridors in the region and reviews the current data infrastructure (which is very little, with very few detectors currently). The RDS will look at the existing data infrastructure plus additional infrastructure from planned projects, comparing them to what the needs are for all ITS applications in the future. After identifying the gap, an implementation strategy will be developed to fill that gap, leading to improved regional data. The project also considers private sector business models and a potential P3 implementation. We will be proceeding with the next stage, planning and implementation, in 2009.

Knight and Pattullo Bridge ITS Corridor Plans ... In 2009, TransLink will also complete ITS corridor plans, to look at traffic problems on these corridors, including approach roads to bridge structures, and to develop an implementation plan that includes all ITS technologies, including cameras, detectors and electronic signage. The data that is generated will be made available to iMove and mobile devices, meaning traffic information will be available on cell and Blackberry units.

Smart Corridors Strategy ... Examining high-priority goods movement corridors in the region, this project will provide ITS solutions to address traffic issues. The current strategy is phased into short, medium and long-term elements, including a pilot project, with a total of 26 projects that comprise the SCS. Targeted completion for the strategy is 1Q09, to be followed by detail design of the pilot project this year. This project is supported by the federal government, the province, the port, and TransLink.

New ITS Strategic Plan ... 2009 will see an update of the current ITS Vision and Strategic plan to reflect the current direction in ITS programs in the region, and will include all the approved projects.

UBC Transit Centre ... Design work continues for the underground transit terminal at the University of British Columbia. The new exchange will include AVL, ATIS (customer information) and transit signal priority.

Golden Ears Bridge ITS and Traffic Data Integration Project ... Work is underway to integrate traffic data from the Golden Ears Bridge, which is scheduled to open in the summer of 2009. Areas of integration will include traffic data for performance auditing, strategic planning and ITS applications such as iMove. Technologies such as detectors and cameras will be used to support this project. IRSS will be used to integrate traffic signals in the multi-jurisdictional approach routes. The project will forward data to various departments in TransLink, e.g., the Strategic Planning Department will use some of the data to assess broader performance of the bridge; the Roads and Bridge Department will use it to audit the performance of the contractor.

Regional Traffic Mgmt Centre (RTMC) ... An ongoing project, we are currently reviewing the functional program to determine options for the Regional TMC.

Transit Vehicle Tracking ... TransLink is developing the application for tracking all 1,600 buses using GPS data from units that were deployed as part of the bus communication project. The project will predict actual arrival at all stops based on real-time data, and will be available through the web as well as via mobile devices. Expected implementation is 2009.

Smart Card and Electronic Gates ... We are currently finalizing the report that will recommend the solution and process to implement smart cards and electronic gates. Electronic gates are secure access points for transit users onto SkyTrain platforms. Smart cards will be used by all transit modes, including SkyTrain, buses, etc., providing electronic payment capability.

Main Street TSP ... One of six projects that comprise the Main Street Urban Transportation Showcase, this project will provide transit signal priority to buses at key intersections on the corridor and will display next-bus arrival times. This project will be completed in 2009.

Other Projects

The ITS Department continues to be involved in BITSAFS (the UBC-based ITS Centre of Excellence), 511, and the provincial Gateway Program, among other activities.

Business Opportunities from Around the World

CHILE

Rehabilitation of Railway Infrastructure from San Rosendo to Puerto Montt (600 kms); 15-year concession for the rehabilitation (US\$80) and maintenance (US\$30) of the railway infrastructure. Public tender process will start in April 2009 and it is expected to be awarded in June 2009. Economic parameter: Lowest income per transported ton (cargo) per year.

Design and Implementation of an Integrated Traffic Control Platform (US\$M 8). This system is also expected to provide an integrated solution for train regulation and traffic flow planning. The project was discussed on February 13th and the meeting results, as the terms of reference for tendering, are available as a result of this meeting. Contact Cecilia Araya cecilia.araya@efe.cl

International Railway Specialist Consulting Service Contract (US\$200,000). Empresa de Ferrocarriles del Estado (EFE) is looking into contracting the services of an international consultant to assist them in mapping (designing) the new technological platform process, including "walking" with them throughout the implementation phase of the project. Public tender is scheduled for the first week of March 2009.

CHINA

Governor Huang announced recently that Guangdong will invest US\$337 billion in a total of 222 infrastructure projects in the next five years in an effort to trigger more investment. Moreover, in order to satisfy the needs of the Asia Game (Guangzhou) in 2010 and Universiade (Shenzhen) in 2011, more and more ITS applications will be required for existing and new projects.

Construction of the **Hong Kong–Zhuhai–Macao bridge project** will be accelerated. Construction is expected to start by the end of 2009 and be completed in 2015. The estimated total cost for the project is RMB 72.7 billion (about \$14.5 billion).

The major body of the bridge stretches 35 kilometres (bridge + tunnel) and this part will cost about RMB 37 billion (about \$7.5 billion), 42% of which will be funded by the central government and the governments of Guangdong, Hong Kong and Macao. The rest, more than RMB 21 billion (about \$4 billion), will come from bank loans. The central government has committed RMB 5 billion (\$1.25 billion) to initiate this project in 2009.

Construction on the 30-kilometre (18.6-mile) **Guangdong Hainan Bridge**, which will link the southern province of Guangdong and the tropical island of Hainan, is expected to start in 2012. Once opened to traffic in 2020, it will cut the travelling time between Hainan and the mainland to 20 minutes. Currently, a 55-minute ferry ride is needed to cross the Qiongzhou Strait separating the island from the mainland. Total investment in the double-decker bridge will exceed RMB 20 billion (about \$5 billion).

The estimated investment for **Nan'ao Bridge** is RMB 1.2 billion (about \$460 million). This 11.08-kilometre bridge will link Laiwuwei of Chenghai City (Guangdong) and Changshanwei of Nan'ao Island (Guangdong). The project was suspended in 1997 and will start/continue construction on January 20, 2009.

There are also a number of railroad/metro projects – contact ITS Canada for details.

EMIRATE OF DUBAI

Despite the challenges posed by the global economic crisis, the emirate of Dubai indicates it is in absolute control of its destiny. The UAE is one of four countries that top the list of high-growth markets, according to former UK Minister for Trade & Investment, Digby Jones. The Government of Dubai's Roads & Transport Authority (RTA) plan aims to upgrade the mass transit sector and increase the percentage of trips by mass transit modes to 30%. Dubai's budget for 2009 is just weeks away from being unveiled and there will be an increase in the budgetary outlay compared to the budget for 2008. Increases in spending on infrastructure projects are expected, including completion of the Metro project, expansion of the airport and construction of a new airport.

Business Opportunities from Around the World

HONG KONG

The HKSAR Government will commence construction of new roads, tunnels and bridges, which are estimated to cost over HK\$ 60 billion (C\$9.7 billion), in the next three years. These infrastructure projects would require ITS applications such as TCSS (traffic control and surveillance systems) and ATCC (area traffic control centres). Meanwhile, the **Hong Kong Zhuhai Macau Bridge** will be jointly implemented by Guangdong Provincial Government, HKSAR Government and Macau SAR Government. The project which costs over HK\$ 40 billion is the largest among the projects. A committee led by NDRC (National Development and Reform Committee) based in Guangzhou will be the ultimate decision maker.

INDIA

The Ministry of Urban Development is in the process of framing a National Urban Transport Policy (NUTP) to address the various issues involved in urban transport. The objective of this policy is to ensure safe, affordable, quick, comfortable, reliable and sustainable access for the growing number of city residents. This is sought to be achieved by incorporating urban transportation as an important parameter at the urban planning stage rather than being a consequential requirement; bringing about a more equitable allocation of road space - with people, rather than vehicles, as its main focus; investing in transport systems that encourage greater use of public transport and non-motorized modes instead of personal motor vehicles; reducing pollution levels through changes in travelling practices, better enforcement, stricter norms, technological improvements; building capacity (institutional and manpower) to plan for sustainable urban transport; and promoting the use of cleaner technologies. The Ministry of Urban Development has committed to encourage specific initiatives in this regard. According to the 2001 census, there are 35 metropolitan cities with one million-plus population. There are eight cities in the country with more than 3 million population, which include Delhi, Mumbai, Hyderabad, Bangalore and Kolkata. The National Capital Territory of Delhi will be hosting the 2010 Commonwealth Games, which is expected to give a big boost to ITS technologies and services.

ISRAEL

The ITS Israel Association is currently developing an ITS national architecture.

SAUDI ARABIA

Saudi Arabia's rapid economic development and industrialization is placing considerable pressure on the country's existing transport infrastructure and both the public and private sectors are investing billions in the building of roads and rail lines, as well as gateways with the outside world, notably ports and airports. The extensive road building program reflects that vehicles remain the preferred mode of transport for most Saudi individuals and businesses, making the Kingdom the largest market for motor vehicles, auto parts and service equipment in the Middle East. Currently enjoying a boom in the construction industry, the Kingdom is seeing billions of dollars of investment in huge construction projects such as the new 'Economic Cities', all of which will underpin strong growth in demand for a wide variety of vehicles.

THAILAND

Government spending on transport infrastructure is needed to prevent Thailand from global economic downturn. More than 100 kilometres of sky train will be built; there is ongoing expansion on the BTR train; a new IT system for e-ticket payment and one ticket for all transport payments, speed cameras, improvements on the national rail service and road improvements.



ITS Canada Welcomes New Members

CORPORATE

G4 Apps Inc.
Telegra



ITS Canada News

News *bITS*

ITS CANADA SCHOLARSHIP

ITS Canada has announced the kick-off of its 2009 scholarship program. Commemorating the contribution that Dr. Michel Van Aerde made to the ITS industry, ITS Canada's Michel Van Aerde Memorial Scholarship is awarded annually for graduate studies in intelligent transportation systems, and is tenable at any Canadian university. The selection committee will recommend an award based on academic ability, stated career objectives, demonstrated understanding of ITS, an interview with the supervising professor (where applicable), and supporting letters of reference. To be eligible, candidates must be Canadian citizens or landed immigrants, and registered as full-time students in a graduate studies program at a Canadian university. The submission deadline is **March 15, 2009**. Full details are available on ITS Canada's website at www.itscanada.ca.

U.S. DOT INTRODUCES INTELLIDRIVE

The U.S. Department of Transportation has introduced a new name and logo for the Vehicle Infrastructure Integration program: IntelliDrive. According to the U.S. DOT's Research and Innovative Technology Administration (RITA), the program's renaming is intended to better highlight the full potential of technologies that enhance the safety, mobility, and convenience of everyday transportation across the U.S.

CANADIAN INFRASTRUCTURE PROJECTS

The Federation of Canadian Municipalities (FCM) has released a report summarizing municipal infrastructure projects that would be ready to go quickly if federal funding is made available. For more information, visit www.fcm.ca.

ITS IN WORK ZONES

The Traffic Safety Services Association (ATSSA) has published, "ITS Safety and Mobility Solutions – Improving Travel Through America's Work Zones", which reviews ITS applications that can easily be implemented into work zones, increasing safety and mobility. For information, visit www.atssa.com.

ITS EDUCATION

The Consortium for ITS Training and Education (CITE) is a unique organization of universities and industry associations focused on providing comprehensive advanced transportation training and education online. We offer over 30 interactive web-based courses used by universities and current practitioners throughout the world.

Additionally, CITE offers a hybrid of web-based and instructor-led courses referred to as 'blended learning'. This allows students to review the course material over the Internet when it's convenient for them, but the course is led by an instructor and is scheduled for a six- to eight-week period. Students interact with the instructor and each other through conference calls and discussion boards. All of the course instructors are experts in their field.

In 2008, CITE offered two new courses in blended format: *Principles and Tools for Road Weather Management* and *Improving Highway Safety with ITS* – each was a huge success! The following comments were rendered:

"Blended learning offers the added advantage of expanding resources and helping us to 'think outside the box' thanks to the conversational interactions."

"The blended course allowed me to access the course material frequently during the week. The conference calls and assignments were useful for sharing experiences and learning from the instructor and classmates."

"The exchange during the live conference calls was very insightful and I gained knowledge from the other students and the instructor."

CITE's 2009 Blended Course Schedule is available online at:

www.citeconsortium.org/blended-courses.html

For more information, contact Denise Twisdale:
mztwiz@umd.edu



Upcoming Events

ATEC-ITS France International Congress

February 4 and 5, 2009 – Versailles, France
www.itsfrance.net

ETSI Standards Telecom ITS Workshop

February 4 to 6, 2009 – Sophia Antipolis
www.etsi.org/ITSWORKSHOP

Andina Traffic 2009

February 23 and 24, 2009 – Bogota, Columbia
www.andinatrafic.com

Urban Transportation Summit

March 3 and 4, 2009 – Toronto, ON
www.strategyinstitute.com/030309_uts7/dsp_detail.php

What's New in Transport Research and Policy

Summary of Selected Sessions at the 2009 TRB
March 6, 2009 – Vancouver, BC
cynthia.ree@sauder.ubc.ca

2nd Annual Transportation & Infrastructure Convention

March 11 to 13, 2009 – Washington, D.C.
www.itsa.org

Incident Management In The Fast Lane

March 12, 2009 – Niagara Falls, NY
www.NITTEC.org/IMConference09

International Conference on Urban Traffic Safety

March 16 to 18, 2009 – Edmonton, Alberta
www.TrafficSafetyConference.com

Intertraffic China

March 18 to 20, 2009 – Shanghai, China
www.intertraffic.com

e-Transport

March 24 and 25, 2009 – Johannesburg, S. Africa
www.itssa.org

6th International Workshop on ITS

March 24 and 25, 2009 – Hamburg, Germany
<http://wit.tu-harburg.de>

Best Practice in Travel Data Collection

March 27, 2009 – Vancouver, BC
cynthia.ree@sauder.ubc.ca

1st Russian Congress on ITS

April 7 and 8, 2009 – Moscow, Russia
kornilov@pidb.ru

Identifying Traveler Information Research Needs to Achieve All Roads-All Modes-All the Time

April 15 to 17, 2009 – Irvine, CA
www.trb.org/calendar

TAC Spring Technical Meetings

April 16 to 20 – Ottawa, Ontario
www.tac-atc.ca

Traffex 2009

April 21 to 23, 2009 – Birmingham, England
www.traffex.com

ITE Quad Conference

May 1 and 2, 2009 – Vancouver, BC
www.citevancouver.org/quad



ITS CANADA ANNUAL CONFERENCE AND GENERAL MEETING

May 10 to 13, 2009 ~ Edmonton, Alberta
www.itscanada.ca/edmonton2009

Intertraffic Istanbul 2009

May 27 to 29, 2009 – Istanbul, Turkey
www.intertraffic.com

ITS America's Annual Meeting 2009

June 1 to 3, 2009 – National Harbor, Maryland
www.itsa.org/annualmeeting.html

CUTA 2009 Annual Conference

June 6 to 10, 2009 – Whistler, British Columbia
www.cutaactu.ca

Canadian Multidisciplinary Road Safety Conference

June 8 to 10, 2009 – Saskatoon, Saskatchewan
www.cmrsc.ca

2009 Canadian Telecom Summit

June 15 to 17, 2009 – Toronto, Ontario
www.telecomsummit.com

National Rural ITS Conference 2009

August 23 to 27, 2009 – Seaside, Oregon
www.nritsconference.org

16th World Congress on ITS

September 21 to 25, 2009 – Stockholm, Sweden
www.itsworldcongress.com

TranspoQuip 2009

November 17 to 19, 2009 – São Paulo, Brazil
www.transpoquip.com