



ITS Canada News

Carl's Corner

What happened to the quiet summer??!! The first substantive meeting of your new Board was June 25th and we made progress in a number of areas, including a decision to invest in an improved ITS Products and Services Database, regional workshops this year on ITS awareness, training, standards and architecture (more next month!), and a move into the rapidly-growing VII / IntelliDriveSM market segment. That was the quiet part!

Then the 511 Summit (Ottawa) on September 8th was announced, and ITS Canada is co-hosting it with Transport Canada. We are working out details on the fly, and you will need to stay tuned to our website and theirs, and read your messages from the Secretariat. We hope to see many of you there.

At the same time, our already-hard-at-work Local Organizing Committee confirmed the dates of June 13-16 next year, also in Ottawa, for the ITS Canada Annual Conference and General Meeting. We are negotiating with the hotel venue now and will be able to announce the location in a few weeks. A technical committee is in process, along with a special exhibition group consisting of members who have 'been there, done that' and know what works and what doesn't. We hope to have some very special visitors from abroad next year, and although we cannot announce it yet, we will let you know as soon as we can.

If that was not enough, next month we are taking a number of our members to the National Rural ITS Conference, hosted by ITS Oregon, in Seaside, Oregon, and of course will have a significant presence at the ITS World Congress in Stockholm in late September with six companies in a national ITS Canada stand. Dozens of Canadians will be presenting technical papers, moderating global technology sessions, and exhibiting. One highlight will be an 'invitation only' reception on opening day hosted by the Canadian Ambassador, and sponsored by ITS Canada and participating members. Many of you will recall the success we had in New York last year with that format. We are also planning another working breakfast for ITS professionals from all over the world.

Finally, Ontario Ministry of Transportation (Henry Wong and Ataur Bacchus), Delcan Corporation (Alan Byrne and Ni Li), York Region (Steve Kemp) and yours truly met with a large delegation of Chinese transportation journalists in early July. We educated them on the importance of ITS as China continues to develop transportation infrastructure at a break-neck pace.

So much for the quiet summer!

Carl Kuhnke
Executive Director

Inside This Issue

Articles

- A Message from ...page 1
Your Executive Director
- Gearing up for the ... p2
ITS World Congress
- Canadian Exhibitors
- Speakers and Moderators
- 511 Summit ... p6
- ITS for any size ... p4
municipality

Features

- Members in the News ... p7
- Upcoming Events ... p8



This newsletter is published for ITS Canada's members, with an intended audience of ITS industry participants in Canada. We make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability for any purpose or availability with respect to the information, products, services, or related graphics contained herein. ITS Canada assumes no responsibility for statements contained in submissions contributed by other organizations or authors, nor does the publishing of such material imply approval by ITS Canada. In no event will ITS Canada be liable for any losses or damages including, without limitation, indirect or consequential losses or damages arising out of, or in connection with, the use of any content in this newsletter. Links to other sites are not part of ITS Canada's content and are provided only as an aid. Linked sites are not under the control of ITS Canada with regard to their nature, content and availability. ITS Canada does not own any intellectual property rights to the material on linked sites, nor does it warrant the accuracy of information therein, nor does it imply a recommendation or endorsement of the views expressed therein. Use of any material either in whole or in part contained in this issue requires the written consent of ITS Canada.

Gearing up for the ITS World Congress

By Carl Kuhnke, Executive Director – ITS Canada

The 16th ITS World Congress is just around the proverbial corner! In late September, dozens of Canadians involved in ITS will either be speaking to a global audience about their particular field of expertise, or exhibiting their world-class ITS products and services in the Exhibition Hall in Sweden. This year, ITS Canada has joint-ventured with the Ontario Ministry of Economic Development and Trade in the creation of a spectacular ITS Canada stand that will house six of our members, along with many more by way of the display of corporate materials. Transport Canada will also be supporting the Canadian presence, and we are working with the Canadian Embassy in Stockholm and Transport Canada towards a business networking reception on Opening Day, as well as a working breakfast presentation of Canadian capabilities, by invitation only, to a targeted list of major global ITS players.

Following is a list of Canadians (to the best of our knowledge at this point) either exhibiting, or speaking, or acting in some official capacity at the World Congress. This is the premier event on earth for ITS technologies, the forum to further our interests, convince governments of the utility and cost-benefit advantages of deploying ITS, and understand emerging global trends. If you have the opportunity to be there, you should be! If you cannot be there, watch ITS Canada's website on a daily basis from September 21 through 25, as your onsite reporter (and Executive Director) provides his daily summary.

Exhibitors in ITS Canada's booth include:



Delcan is an engineering, management, and technology consulting firm. We specialize in a wide range of ITS applications, and participate in all project phases from planning to implementation and systems operation. We conduct our business as consultants, system managers or members of turn-key contracts. Our repeat business for clients in both

the public and private sector in such diverse places as Hong Kong, Beijing, Johannesburg, Cyprus, Greece, Ireland, Canada, United States and South America is evidence of our expertise in the development of some of the industry's most progressive solutions, many of them recipients of prestigious national and international awards. We are independent from equipment suppliers and therefore offer "true" system integration services and open-concept software solutions. Our strong transportation background allows us to focus on transportation operations and safety, and helps us provide application-driven solutions such as our successful Intelligent NETWORKS, a web browser based Advanced Traffic Management System.



IBI Group is a multi-disciplinary consulting firm with a focus on urban land, facilities, transportation and systems. IBI Group has over 2,300 staff operating out of more than 65 offices across Canada, United States, Europe, Asia and the Middle East. With over 300 professional engineers and software developers specializing in Intelligent Transportation Systems, IBI Group offers our clients expertise in planning, design, software development, system integration, operations and maintenance. Our toll, airport, traffic management, motorway management (with SCADA integration), transit and traveller information (511) systems have been designed and built around the latest Microsoft .NET technologies, providing highly reliable, configurable and expandable deployments that will meet the end user needs of today while providing scalability and configurability to accommodate the end user needs of tomorrow. For more information, please contact Scott Stewart (ssewart@ibigroup.com) or www.ibigroup.com, or see us at the ITS Canada booth at the World Congress in Stockholm, Sweden.

Continued next page ...

Gearing up for the ITS World Congress

Exhibitors ... continued from previous page



Image Sensing Systems, Inc. (ISS) is the world leader in video and radar detection systems and technology for traffic management and control with Autoscope® and RTMS® brand solutions. The RTMS G4, a fourth generation radar from ISS, is the only advanced sensor combining 12 lane non-intrusive detection, Zero-Setback, low wattage, NTCIP, wireless and other communication options, power management and built-in IP video camera for verification. Unlike other devices, its All-In-One concept eliminates complexities of field integration to other ITS systems. RTMS G4 offers a broad portfolio of integrated solutions for traffic counting, freeway management, incident detection, work zone safety and warning. With nearly 100,000 units sold in over 60 countries, ISS leverages technology expertise and experience in diverse applications to deliver innovative and cost-effective solutions for transportation managers. For more information on ISS and the RTMS G4, please visit www.RTMS-by-ISS.com.



INTERNATIONAL ROAD DYNAMICS INC.

International Road Dynamics, Inc. (IRD) is a highway traffic management products and systems technology company operating in the worldwide Intelligent Transportation Systems (ITS) industry. IRD's engineers are experts in the design and supply of toll road systems, Weigh-in-Motion (WIM) systems, automated truck weigh station systems, advanced traffic data collection systems, and freeway management systems. IRD is registered with the ISO 9001:2000 Quality Control program and is committed to "Total Quality". IRD services range from equipment supply to provision of fully integrated turnkey systems and long-term operation, management and service support.



Ministry of Economic Development and Trade, International Trade Branch, assists international buyers interested in sourcing Ontario products and services. Our team of trade professionals can help you connect with the people, products and ideas that make Ontario Canada's economic powerhouse. For more information about Ontario exports, suppliers, and trade, please visit us at www.ontarioexports.com.



RuggedCom is the leading developer and supplier of field hardened networking and communications devices designed for Intelligent Transportation Systems applications. RuggedCom's full range of products include: field hardened Ethernet switches with modular configurations, Gigabit options, and long haul fiber support; routers with integrated router/firewall/VPN capabilities; serial device servers with integrated Ethernet switch to "network" enable serial devices; and media converters to allow communications over a common medium. All RuggedCom products have industry leading specifications, including: exceeding NEMA TS-2; -40 to +85C operating temperature; highest EMI immunity; fastest network fault recovery (<5ms); highest reliability and MTBF; and embedded Cyber Security features. In addition to hardware, RuggedCom's products and solutions include software, and a full range of professional services. Software products comprise a fully-featured enterprise grade comprehensive platform for monitoring, configuring, and maintaining mission-critical IP-based networks. Professional services are offered to assist customers with networking and communications design, implementation, and technical support.

Continued next page ...

ITS World Congress

Exhibitors ... continued from previous page



Transport
Canada

Transports
Canada

Transport Canada plans, develops, and implements policy to help guide the development and adoption of ITS in Canada. ITS has the potential to address today's transportation challenges by facilitating trade, reducing congestion, promoting safety and security, and renewing infrastructure. Through the national strategic plan and the national ITS architecture, Transport Canada works to harmonize the development of intelligent transportation in Canada. By promoting the integration and deployment of these systems, Transport Canada is maximizing the value of infrastructure investment and transforming the Canadian transportation sector. Our vision is to create an environment that will stimulate the collaborative development and deployment of ITS across urban and rural Canada to improve safety and maximize the use and efficiency of the existing multimodal transportation system; and to make the Canadian ITS industry a leader in ITS technologies by positioning it to meet future Canadian needs and to compete in the growing global marketplace.

ITS Centre of Expertise at the University of Sherbrooke

The University of Sherbrooke is starting up a Centre of Expertise in the particular field of Vehicle Infrastructure Cooperation (VIC) applied to mobile Road Weather Information Systems (RWIS). Research topics include sensor design; communication networks; options for building and exploring databases; decision support systems conception; management support systems conception; and methods of sending information to road users. Several departments of the University are involved (electrical and computer engineering, computer sciences, applied geomatics, business management) to develop state-of-the-art technologies and to investigate new research opportunities. Links are being made to include researchers from other universities in Canada and the rest of the world. For information, please contact Étienne Morin: visionmeteo@sympatico.ca.

ITS for any size municipality

If you have a set of traffic lights or a local bus route, you are a candidate to employ intelligent transportation systems (ITS) and make your citizens' travel experiences safer, greener and faster. There are clear benefits to implementing solutions *before* problems arise and become issues. The key is to know your specific needs, then find the solution that fits.

You may think that you need a complex situation before ITS implementation can provide benefits. That's not the case. Traffic control is a fundamental user service where corridor congestion can be mitigated with basic signal management. For transit, providing signal priority increases service levels by improving efficiency and schedule adherence. Traveller information systems can provide the public with a one-stop portal for notices regarding construction, closures for community events, weather, transit arrival times, and more. It can then be disseminated through transit stations, websites or personal communication devices, providing real-time customer service. Commercial goods can move effortlessly through "smart corridors" with weigh-in-motion systems that permit compliant vehicles to bypass weigh stations. Level crossings can include train detection systems that notify motorists and emergency services for potential diversion. Even parking systems can be enhanced. And every implementation can evolve as needs change.

The benefits? ITS improves efficiency and safety, traffic throughput, reduced travel times, and reduces greenhouse gases. Commercial goods move more quickly, reducing costs to operators and consumers. Integration of solutions with a neighboring town, city or municipality leads to improved institutional relationships across boundaries, with regions sharing important technical data and collaborating on joint projects that provide benefits to a wider region.

How to get started

Transport Canada has developed an ITS Architecture that describes the various areas where systems can be implemented, providing a 'shopping list' of options for potential solutions that are defined as "user services".

Continued on Page 6 ...



ITS Canada News

Canadian Participation ~ ITS World Congress

Below is an excerpt of Conference sessions where Canadians are invited speakers or moderators. Please consult the final program for a complete list:

Technical Sessions

TS003 - Travel planners - prediction models

3136 Prediction and display of delay at road border crossings
Ata Khan, Carleton University

TS025 - Road user charging 1

3400 GMAR standard performance definitions for GNSS road use metering
Bern Grush, Skymeter Corporation

TS028 - ITS freight - screening, location and identification

3262 A feedback-based dynamic weight threshold control for electronic truck screening systems
Jinwoo Lee, Bureau of ITS and Freight Security

3292 Evaluation of automated license plate recognition for improving British Columbia's Green Light program
Garland Chow, University of British Columbia

TS045 - Save fuel

4049 Vehicle energy management optimization using look-ahead three-dimensional digital road geometry
Xiaopeng Li, Intermap Technologies Corp.

TS055 - Achieving safety and decreasing production of CO2 through voluntary use of speed advisors

4005 Reducing carbon footprint through an integrated communications system for densely travelled highways
Padma Kamath, Alcatel-Lucent

TS086 - HGV charging

3253 Methods for dealing with heavy trucks on toll roads
Joe Clavelle, International Road Dynamics Inc.

TS114 - Motorway management 2

Moderator – Joseph Lam, Delcan Corporation

Special Interest Sessions

SIS21 - Intermodal freight transports - experiences, future challenges and world class planning systems

Rod Case, Principal, Oliver Wyman

SIS23 - ITS - the missing 50%?

Susan Spencer, Director, Intelligent Transportation Systems, Transport Canada

SIS41 - Managing our cities: influencing and measuring performance of transport corridors

Moderator – Susan Spencer, Director, Intelligent Transportation Systems, Transport Canada

Interactive Sessions

IS03 - Broadcast technologies

3762 Is there a future for 511? Current and emerging trends in American advanced traveller information systems
Gregg Loane, IBI Group

IS06 - Decision support 2

Moderator – Scott Stewart, IBI Group

4014 Demands and functions analysis on ITS system for disaster management

Jin Yang, Ministry of Transportation and Infrastructure

IS12 - Traffic management - use of VMS

3448 To vision zero via science with ITS, 3S Limits & VMS
Allen Gullon, ACEs

IS13 – ITS Architecture

Moderator – Carl Kuhnke, ITS Canada

IBEC Event at the World Congress

IBEC One-Day Seminar on Road Pricing

September 20, 2009

Stockholm, Sweden

www.ibec-its.co.uk



ITS Canada News

News bITS

ITS for any size municipality



511 SUMMIT

ITS Canada, in collaboration with Transport Canada, will host a Summit exploring the future development of 511 traveller and weather information services in Canada, including the 511 telephone number and 511 web services. The Summit will be held September 8, 2009, in Ottawa. The 511 telephone number has been allocated by the Canadian Radio-television and Telecommunications Commission for a 24-hour telephone-based traveller and weather information service. Implementation of the 511 service involves a large number of stakeholders, including Environment Canada, provinces, territories, municipalities, transit properties, private sector traffic information providers, telephone companies, and consultants. With three jurisdictions offering 511 service and others developing plans for deployment, and with the increasing prevalence of Internet-based traveller information services, the 511 Summit will offer a vital forum for the discussion of common challenges, concerns, and solutions.

The Summit, open to all stakeholders, will feature presentations on the current state of traveller information, followed by an open discussion of current challenges and the future of 511 traveller and weather information services. A closed session, by invitation only, will be held on September 9, 2009.

Please visit ITS Canada's website (www.itscanada.ca) for updates and agenda information, and the Transport Canada website (www.its-sti.gc.ca) for registration details.

RURAL TRANSIT

The U.S. Federal Transit Administration has released its final report on an "Operational Test for the Implementation of Advanced Technologies in Rural Transit Service". To download the publication, visit:

www.fta.dot.gov/documents/OperationalTest_Implementation_of_Advanced_Technologies_Rural_Transit_Service_%28FinalReport%29.pdf

Continued from Page 4

At higher levels, the ITS architecture helps provide a framework for integration of components to guide the coordinated deployment of ITS programs, ensuring compatibility of each element. View the details at www.itscanada.ca/architecture.

DID YOU KNOW?

The CRTC has approved the use of the three-digit dialing code "511" for weather and traveller information. Hooking up your current 7- or 10-digit telephone number so that users can access it by dialing 511 is the new way to quickly relay information on incidents, road and weather conditions, and transit schedule changes.

ITS Canada has a presentation package available that municipalities and regions can use to educate their councils, management and staff on the available solutions and the benefits associated with intelligent transportation systems. Information on costs versus benefits is readily available through the International Benefits, Evaluation and Costs website (<http://www.ibec-its.co.uk>), to assist in developing your ITS business case for capital approval.

Intelligent transportation systems are relevant to any size town, city or municipality ... evaluate your needs and contact us now to see how ITS Canada can help link you to valuable resources.



Intelligent Transportation Solutions ...

There's something for every size of town, city, municipality or region

Members in the News

AECOM

AECOM Technology Corporation has announced that it has won a \$15-million roadway contract from the New Jersey Department of Transportation (NJDOT). AECOM will provide construction-management and inspection services to complete the second phase of the replacement of causeway bridges and roadway sections of Route 52 in the southern part of the state. The \$250-million project will eliminate two drawbridges at the Ocean City and Somers Point limits and eliminate Somers Point Circle, with improvements to MacArthur Boulevard.



Image Sensing Systems has announced that Fortune Small Business has listed it on the annual "FSB 100" list, representing the 100 fastest growing small public companies in America. To compile the list, Fortune Small Business asked financial research firm Zacks to screen annual reports for public companies with annual revenue of less than US\$200 million and a stock price of more than US\$1. Within that group, companies were ranked based on the past three years' earnings growth, revenue growth, and stock performance. For the first time this year, companies with losses in any of the four quarters ended on or before December 31, 2008, were excluded from the list, resulting in a list of companies that have managed to stay profitable through the recession.

TransLink's New Golden Ears Bridge

According to figures from the QuickPass electronic tolling system, approximately 329,000 vehicles have used the new bridge between June 16 – opening day – and June 22. The bridge is projected to handle some 30,000 vehicles per day by 2010, so the average of 47,000 per day for the first week is well above that.

NAVTEQ

NAVTEQ has announced that it has released a new version of its free NAVTEQ Traffic.com[®] mobile website at <http://mobi.traffic.com>. Accessed from any cell phone or PDA with a mobile web browser, the free site is current, convenient and loaded with new features to help drivers take the latest traffic information with them on the road. The mobile website was enhanced with the needs of on-the-go drivers in mind, and designed to display traffic content for easy navigation on mobile phones and devices. It features accurate, up-to-the-minute traffic information, including travel times, vehicle speeds, delay times, accident reports and NAVTEQ's unique Jam Factor[®], a numerical traffic measurement scale that offers a look at a route's current traffic conditions with color coded indications of worsening or improving trends. Drivers can access city area traffic information or their own personalized updates about current conditions and congestion trends.



A new tunnel project has gone live on the island of Réunion, in the Indian Ocean, around 200 kilometres from Mauritius. The Cap-la-Houssaye tunnel is located in the north-west area of the island. It has two tubes with three lanes. One tube (midland direction) is 223m long and the other (coast direction) is 368m. **Traficon** was selected to deliver its intelligent Automatic Incident Detection (AID) system. Nine VIP-T modules were installed in June and are now fully operational. The system is used to detect stopped vehicles, slow-moving vehicles, wrong-way drivers and smoke inside the tunnel. The quick detection rate, together with the direct real-time visual feedback in the control room, allows operators to efficiently take necessary actions in case of an accident.



Upcoming Events ... Visit ITS Canada's website for more events

2nd Annual Conference on the Use of ITS in the Airport Environment

August 3 to 5, 2009 – Salt Lake City, Utah
www.aaae.org/meetings/meetings_calendar

International Transportation Technology and Equipment Exhibition

August 20 to 23, 2009 – Qingdao, China
www.cittee.cn

National Rural ITS Conference 2009

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

77th IBTTA Annual Meeting & Exhibition

September 13 to 16, 2009 – Chicago, IL
www.ibtta.org/Events

VIII Congreso Internacional ITS

September 14 to 18, 2009 – Buenos Aires, Argentina
www.congresodevialidad.org.ar

16th World Congress on ITS

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

TAC Annual Conference & Exhibition

October 18 to 21, 2009 – Vancouver, British Columbia
Transportation in a Climate of Change
www.tac-atc.ca

9th International Conference on Telecommunications for ITS

October 20 to 22, 2009 – Lille, France
<http://itst2009.inrets.fr>

2nd World Roads Conference

October 26 to 28, 2009 – Suntec, Singapore
www.wrcsingapore.sg

2009 Toll Road Summit of the Americas

November 15 to 17, 2009 – São Paulo, Brazil
www.ibtta.org/Events

TranspoQuip 2009

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

Australian Intelligent Transportation Systems Summit 2009

November 19 and 20, 2009 – Melbourne, Australia
www.its-australia.com.au/main

ITS for Mobility and Safety Management

December 3 to 5, 2009 – India
viney.gupta@international.gc.ca

Gulf Traffic

December 6 to 8, 2009 – Dubai, UAE
www.gulftraffic.com

Viet Transport

December 9 to 11, 2009 – Hanoi, Vietnam
www.viet-transport.com

SIRWEC: Standing International Road Weather Commission Conference

February 8 to 11, 2010 – Quebec City, Quebec
www.sirwec.org/en/index.php?page=next_conference

16th International Road Federation (IRF) World Road Meeting

May 25 to 28, 2010 – Lisbon Portugal
www.irf2010.com

FISITA World Automotive Congress

May 30 to June 4, 2010 – Budapest, Hungary
www.fisita2010.com



Save the date! ITS Canada's 2010 Annual Conference will be held on June 13 to 16, 2010, in Ottawa, the nation's capital. It's sure to be an exciting year leading up to the Conference, with the expected widespread infrastructure spending. Be sure to be a part of this exciting event to hear first-hand about the latest in ITS deployments as well as research and development initiatives. Mark your calendar and stay tuned for more details to come!