

## Inside This Issue:

- ACCORD Program.....Page 1
- New S&T Strategy.....Page 1
- Opportunities in Colorado.....Page 2
- What's new about TDS members.....Page 3-4
- Conf. and Tradeshows..... Page 5
- Technopôle's members ..... Page 6
- Contact information ..... Page 6

## TDS Calendar:

### May 31st-June 1st:

COMDEF 2007 Ottawa - *Immediate Technologies for Border Security*, Ottawa Congress Center.

### June 6:

Conference to be pronounced by Mr. Gilles Dupont, Technopôle Defence & Security Business development Director, Photonics North 2007, Ottawa.

### June 7:

TEN Network meeting "Space Systems, Radiological and Nuclear Defence", RDDC Ottawa.

### June 11:

Air Force Outlook (CADSI), Ottawa Congress Center, Ottawa.

### June 28:

AFCEA Breakfast and Technopôle Defence and Security Seminar, Ottawa Rideau Club.

## \$18 M for the Quebec Region ACCORD Program

The Technopôle Defence and Security figured among the twelve projects submitted in respect to the ACCORD program. This program has been created in order to support the development of projects related to the niches of excellence identified for Quebec Chaudière-Appalaches region.

Mr. Jean Charest, Prime Minister, announced on May 25th, that the funding of the ACCORD program for Quebec region (Fonds de l'Innovation) will reach \$18 million for the next five years. Thanks to the involvement of Quebec City, ACCORD will benefit from an extra \$3 million. This "Fonds de l'innovation" is an initiative aiming at diversifying the economy of the Quebec region. Selected projects to be funded should be announced at the beginning of July.

(Source : Quebec Government, Press release, May 25<sup>th</sup>, 2007)

## A new S&T Strategy for the government of Canada

Prime Minister Stephen Harper recently released Canada's new national science and technology (S&T) strategy (<http://www.ic.gc.ca/s&tstrategy>), identifying more private research and development as key to strengthening Canada's economy. Consistent with the S&T Strategy themed **Mobilizing Science and Technology to Canada's Advantage**, a series of initiatives has been launched aiming at making Canada a world leader in innovation and R&D.

One of those programs is the **Strategic Aerospace and Defence Initiative (SADI)**, which provides Canadian aerospace and defence industries with repayable contributions for strategic R&D projects. SADI is expected to invest nearly \$900 million over the next 5 years, with funding to reach a maximum of \$225 million per year. More information at: [http://ito.gc.ca/epic/site/ito-oti.nsf/en/h\\_00022e.html](http://ito.gc.ca/epic/site/ito-oti.nsf/en/h_00022e.html)

## Procurement opportunities for the next Olympic Games

The London 2012 Olympic Games committee has officially launched its procurement process. The current procurement opportunities and RFP can be consulted on their web site at: <http://www.london2012.com/en/gettinginvolved/business/displayopportunities.htm>



Do not forget that the Vancouver Organizing Committee for the 2010 Olympic and Paralympic Winter Games (VANOC) have its own procurement process. Requests for Proposals (RFPs), Invitations to Quote (ITQs), Requests for Expression of Interest (EOIs), and other bid opportunities are issued and made public on the following website :

<http://www.vancouver2010.com/en/OrganizingCommittee/BusinessOpportunities/ProcurementInformation/ProcurementOpportunities>

## Colorado: an active player in optic & photonics

### Did you that the State of Colorado is an important center for optics, photonics, and associated technologies?

The photonics industry in Colorado includes nearly 300 organizations:

- **219** companies, many of them manufacturers, supplying products not only to the photonics industry but to Aerospace, Bioscience, Energy, Defense Telecommunications, Computer storage, and others.
- **Four** federal laboratories with significant photonics activities.
- **Six** universities with programs/research.
- **Three** Nobel prize winners for photonics research

The Colorado Photonics Industry Association (CPIA) published their 2006-2007 Directory and Analysis. To discover Colorado's well-developed photonics cluster, please have a look on the following document: <http://www.coloradophotonics.org/PDF/PhotonicsDirectory.pdf>

## Get exposure in Colorado:

### Book your Booth in the Canadian pavilion at the Homeland Defense Symposium

The Consulate General of Canada in Denver invites you to participate in the 2007 Homeland Defense Symposium to be held on October 2<sup>nd</sup>-4<sup>th</sup>, 2007 in **Colorado Springs**, as part of the Canadian Pavilion. The Consulate has already reserved 12 booths at the same location as last year's Canadian Pavilion (booths 708-719). The cost is \$US 1,850 for a 10' by 10' booth. As before, we will manage the booth attribution on a first come first served basis. The Consulate General will organize a number of networking activities, including a reception. The Consulate will also work with the participants to organize one-on-one meetings on October 1<sup>st</sup>, for which an early registration will greatly increase the time to set-up appropriate meetings.

Please contact Philippe Taillon if you are interested in participating in the Homeland Defense Symposium at [denvr-td@international.gc.ca](mailto:denvr-td@international.gc.ca). For further details about the event, visit [www.nhdf.org](http://www.nhdf.org).

## What's new with TDS' members?



### Solim and Roche, Groupe-conseil inject \$6 million in a real-estate project for Lyrtech

Solim and Roche, Groupe-conseil have teamed up to invest a sum of \$6 million in a real-estate project to be built in the Parc technologique du Québec métropolitain. Construction of the three-story, 45,000-ft<sup>2</sup> (4,181-m<sup>2</sup>) building will be completed in 2007. The building's primary occupant will be Lyrtech.

"The partnership between Solim and Roche is of the utmost interest because it will yield a high-quality building for a high-tech company in a key spot of the Parc technologique du Québec métropolitain," stated the President and CEO of Roche, Groupe-conseil, Mr. Mario W. Martel. "Solim is proud to team up with Roche in the elaboration and realization of this project. It promises to be a huge success. We truly hope that the project, through its position and contribution, will also prove beneficial to the Parc technologique du Québec métropolitain," stated Mr. Guy Thériault, investment director at Solim.

For the Parc technologique du Québec métropolitain, this new building will add to the already existing 190,000-ft<sup>2</sup> (17,651-m<sup>2</sup>) floor space of the Parc. As the Parc's occupancy of multi-tenant building has reached its peak, this new building will bolster the Parc's ability to host small and medium size high-technology or services businesses. Furthermore, this new development will help secure the presence in the Parc of an already well-established company. "We are very glad that this project will help Lyrtech successfully expand in the Parc," indicated Mr. Richard St-Pierre, acting chief executive officer of the Parc technologique du Québec métropolitain.



### ABB unveils the result of a \$5MCAD investment project: the MB3000 spectrometer

ABB unveiled its new MB3000 spectrometer. The development of this analyzer was in part supported by the Canadian Space Agency, and which required an investment of more than \$5MCAD over three years.

The MB3000, a Fourier Transformed Infrared analysis system, represents a major technological breakthrough into the market of low-cost, high-performance equipment. It will be used in laboratories as well as in industrial processes to analyze multiple chemical components in the final quality control of several common products used daily. ABB developed the rugged, highly reliable instrument, offering exceptional performance and ease of use in response to increasing customer demand.



The Interferometer, the heart of the instrument, combines 20-year proven technology with one recently developed for aerospace application, thanks to the Canadian Space Agency's technology development program. This interferometer, which in fact is a miniaturized module used in satellites, has been integrated into the new design of the analyzer. The small footprint of the MB3000 requires very little work space, meeting the needs of today's overcrowded laboratories. The innovative system was developed by a multidisciplinary team of ABB's experts.

"The MB3000 offers exciting new opportunities to develop new products and applications, generating growth for the business for the coming years," stated Jean-René Roy, ABB Analytical's Business Unit General Manager. "More than ever, ABB is equipped to better serve the analytical chemistry market, including research centers, universities and industries. The MB3000 is a versatile analyzer that enables different accessories to be used for diversified applications."

## What's new with TDS' members?

### TeraXion provides a critical sub-system for the Atacama Large Millimeter Wave Array Telescope

# TeraXion

TeraXion Inc. announced that it received a major contract to supply highly specialized photonic local oscillator systems to the NRAO (National Radio Astronomy Observatory) & ALMA Partnership. The US 2.7M\$ contract will enable system-ready hardware to be deployed in early 2008.

The ALMA Partnership is a global partnership in Astronomy to deliver a truly transformational instrument, one of the best ever built in the history of mankind. Located on the Chajnantor plain of the Chilean Andes at 5100 m (16500 feet) above sea level with up to 64 twelve (12)-meter antennas, deployed on 700 km<sup>2</sup>, ALMA will be operated as a single observatory with scientific access via regional centers. The key science goals include, imaging protoplanetary disks to study their physical, chemical and magnetic-field structures and detecting tidal gaps created by planets undergoing formation in the disks. It also includes imaging starburst galaxies and imaging normal galaxies. Early science will start in 2010 once ALMA has commissioned 16 antennas and full operation will begin at the end of 2012.

ALMA will provide astronomers with the world's most advanced tool for exploring the Universe at millimeter and submillimeter wavelengths. TeraXion will work with all the partners to build a truly revolutionary astronomical tool. TeraXion's prototype hardware has been running for three years at the NRAO Socorro in New Mexico test site. "TeraXion's technology has brought leading-edge performance and enable significant risk mitigation to the whole Photonic Local Oscillator System" said Adrian Russel, North American ALMA Project Manager. "The ALMA project clearly benefits from TeraXion's ability to transform forefront technology into reliable deployed systems" said Ghislain Lafrance, TeraXion's Vice-President, Defense and Aerospace.

This phase of the multi-stage project has TeraXion delivering sub-systems for the Photonic Local Oscillator Distribution and consists in the final engineering and fabrication of Master Laser units. The ALMA Master Laser forms part of the Back End Photonic Local Oscillator subsystem that is used to synchronize the signal processing at all antennas of the ALMA radio-telescope. The Master Laser provides a fixed, highly coherent, and ultra-stable lightwave reference. This laser therefore needs to display exceptionally low noise characteristics, in addition to meeting stringent reliability requirements. This blend of performance and reliability is unique to TeraXion's laser frequency control platform.

TeraXion will also design and build a Local Oscillator Reference Test Module (LORTM). The LORTM is a highly specialized test unit providing a Photonic Local Oscillator Reference signal used to phase-lock the 1st LO Reference of the receivers installed in a Front End Test Fixture as well as providing a phase-coherent reference test signal to be injected into the Front End RF input port.

### A report on the Quebec photonic industry



On May 23<sup>rd</sup>, the Quebec Photonic Network (QPN) presented the results of its study about the Quebec photonic industry, themed « *L'industrie de la photonique au Québec, ses opportunités et ses défis* ». The QPN and their consultant, Mr. Sarto Barsetti invested nearly six months of work in the gathering of information and in the realisation of this study

involving the participation of Quebec photonic companies. This study would not have been completed without the participation of 75 % of the enterprises involved in this sector and the support of the following sponsors : National Optic Institute (INO), Quebec Ministry of Economic Development, Innovation and Exportation, Canada Economic Development, Industry Canada, Canadian Institute for Photonic Innovations (CIPI) and LaSalle Economic Development Corporation (CDEL). For further details about the study, please contact Mr. Jacques Labelle, QPN president, at [jacques@photoniquequebec.ca](mailto:jacques@photoniquequebec.ca)

## CONFERENCES AND TRADESHOWS

Here is a list of interesting events in defence and security:

### June 2007:

DRDC OUTLOOK, to be held on May 31st, 2007, at Le Château Laurier, Ottawa.

<https://www.defenceandsecurity.ca/public/index.asp?action=events.Details&evtID={2C0913CC-BC6F-4D5C-A19D-002FED5F6562}>

COMDEF 2007 Ottawa - *Immediate Technologies for Border Security*, to be held on May 31st and June 1st, 2007, in Ottawa. <http://www.ideea.com/comdef07ottawa/>

SPECOPS WEST 2007, to be held on June 4-6, 2007, Tacoma, WA.

[http://www.defensetradeshows.com/SPECOPSWEST07\\_General\\_Info.html](http://www.defensetradeshows.com/SPECOPSWEST07_General_Info.html)

PHOTONICS NORTH 2007, to be held on June 4-7, 2007, Ottawa Convention Center.

[http://hospqbc.forest.net/Clients/PN2007/PN\\_2007\\_home.html](http://hospqbc.forest.net/Clients/PN2007/PN_2007_home.html)

ISCe 2007, to be held on June 5-7, 2007, San Diego. <http://www.isce.com/>

THE 4TH ANNUAL THE SECURITY SUMMIT: "FOSTERING INNOVATION THROUGH COLLABORATION", to be held on June 6-7, 2007, San Diego Aerospace Museum. <http://www.thesecuritynetwork.org/>

TEN : Space Systems, Radiological and Nuclear Defence, to be held on June 7, 2007, DRDC Ottawa,

[http://www.ottawa.drdc-rddc.gc.ca/html/ten\\_e.html](http://www.ottawa.drdc-rddc.gc.ca/html/ten_e.html)

AIR FORCE OUTLOOK, to be held on June 11, 2007 at the Ottawa Convention Centre Capital Hall.

<https://www.defenceandsecurity.ca/public/index.asp?action=events.Details&evtID={F6B40FAA-3496-4E3C-ABFC-AB2A2435E22C}>

IED 2007 Symposium and Expo, to be held on June 11-13, 2007, in Fayetteville, NC.

[http://www.defensetradeshows.com/IED07\\_General\\_Info.html](http://www.defensetradeshows.com/IED07_General_Info.html)

CRTI Summer Symposium 2007: "Building Resiliency: from Concept to Operations", to be held on June 11-14, 2007, Gatineau, Québec. <http://www.crti.drdc-rddc.gc.ca/en/symposia/default.asp>

9e colloque de l'Association des directeurs de police du Québec", to be held on June 12-15, 2007, Québec City.

[http://www.adpq.gc.ca/Horaire\\_2007.pdf](http://www.adpq.gc.ca/Horaire_2007.pdf)

CBRN DEFENCE ASIA : Preparedness against any CBRN incident is the key to a successful homeland defence strategy, to be held on June 13-15, 2007, Novotel Clarke Quay, Singapore.

<http://www.marcusevans.com/events/CFEventinfo.asp?EventID=12469>

MILSATCOM 2007 : The Necessity of MilSatCom in Force Transformation, to be held on June 19-20, 2007, Geneva, Switzerland. <http://www.marcusevans.com/events/CFEventinfo.asp?EventID=12322>

IDGA's Military Radar conference, to be held on June 25-27, 2007, Hotel Arlington, Arlington VA.

[www.idga.org/us/militaryradar](http://www.idga.org/us/militaryradar)

Network Centric Homeland Security, to be held on June 26-28, 2007 at the Ronald Reagan Building and International Trade Center, Washington, DC.

<http://www.igpc.com/cgi-bin/templates/singlecell.html?topic=221&event=12804>

AFCEA Executive Breakfast, to be held on June 28, 2007, Ottawa Rideau Club, Ottawa

[http://www.afcea.ca/pdf\\_docs/registration\\_28\\_june\\_07.pdf](http://www.afcea.ca/pdf_docs/registration_28_june_07.pdf)

## TECHNOPÔLE'S CURRENT MEMBERS

- ABB Analytical Solutions
- Analytic Systems
- Black Coral
- Cargolution
- Carleton University
- Comlab Inc.
- Creaform 3D
- DMR Conseil (Fujitsu) Inc.
- Defence R&D Canada (DRDC)
- General Dynamics Canada
- General Dynamics Ordnance and tactical systems Canada
- Gentec Inc.
- Groupe CGI
- GTDS
- Laval University
- Lyrtech inc.
- MacDonald, Dettwiler & Assoc. (MDA)
- National Optic Institute (INO)
- Obzerv Technologies Inc.
- OptoSecurity
- Pôle Québec Chaudière-Appalaches
- Quebec Photonic Network
- Rheinmetall Canada
- RoboMotio
- Seaquest Technologies
- Telops
- TeraXion
- Thales Systems Canada
- Urgence Consult
- Valcom Consulting
- Valcom Manufacturing
- Xeos Imagerie Inc.

## CONTACT INFORMATION

### Alain Fecteau

President

(418) 844-7061

[alain.fecteau@technopoleds.org](mailto:alain.fecteau@technopoleds.org)

### Gilles Dupont

Business Development Director (Ottawa)

(613) 614-1228

[gilles.dupont@technopoleds.org](mailto:gilles.dupont@technopoleds.org)

### Léopoldina Ferreira Langlois

Administrative Assistant

(418) 844-1298

[leopoldina.langlois@technopoleds.org](mailto:leopoldina.langlois@technopoleds.org)

### QUEBEC (headquarter)

Building 200, Office 106,  
South site - DRDC Valcartier,  
2459 Pie-XI Blvd. North  
Quebec, QC G3J 1X5  
Tel: (418) 844-0250  
Fax: (418) 844-2739

### Isabelle Gaudet

Strategic Analyst

(418) 844-1314

[isabelle.gaudet@technopoleds.org](mailto:isabelle.gaudet@technopoleds.org)

### Sonia Lebel

Project Manager - Communication

(418) 844-2454

[sonia.lebel@technopoleds.org](mailto:sonia.lebel@technopoleds.org)

### OTTAWA

Gilles Dupont  
2785 Pierrette Drive  
Ottawa, ON K4C 1B6  
Tel: (613) 614-1228  
Fax: (613) 833-0461

[www.technopoleds.org](http://www.technopoleds.org)