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## I - INDUSTRY NEWS

### **AD OPT TECHNOLOGIES**

<http://www.ad-opt.com>

#### **License agreement with WestJet**

AD OPT Technologies has sold user licenses for its "Altitude (R) Pairing" crew pairing and "Altitude PBS" personalized scheduling software to Canadian low cost carrier WestJet. This software will manage the scheduling of Westjet's more than 1000 crewmembers.

#### **Appointment of a new vice-president**

Mr. Gilles Lapierre has joined AD OPT as vice-president of the Altitude division. Prior to joining Ad OPT, Mr. Lapierre worked for Lockheed Martin (Vista software), a manufacturer of military equipment.

### **AIR TERRE ÉQUIPEMENT**

<http://www.airgroundequipment.com>

#### **ISO 9001:2000 accreditation**

On May 20, Air Terre Équipement received ISO 9001:2000 accreditation. Air Terre Équipement is a precision machine shop which fabricates small and medium-sized components for the aerospace industry, including gears and internal and external grinding.

### **ADACEL TECHNOLOGIES CANADA**

<http://www.adacel.com>

#### **Sale of a MaxSim simulation system to the FAA**

Adacel has announced that the FAA's William J. Hughes Technical Center has purchased another MaxSim simulation system, which will be used for control tower location studies. Adacel's equipment is suitable for optimizing the location of a control tower on an airport.

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## **ATELIER D'USINAGE MELOCHE**

<http://www.melocheinc.com>

### **Contract extension with the U.S. military**

Atelier d'usinage Meloche has signed a contract extension for the manufacture of mechanical components with the U.S. military. The extension is valued at more than one million dollars. The current agreement could continue through 2007 and ensures the retention of twelve employees.

The company has also purchased three new Numerically Controlled (NC) machines, which will allow it to produce high precision components at elevated production rates and with short turnaround times.

## **BELL HELICOPTER**

<http://www.bellhelicopter.com>

### **New order for the Bell 206L4**

Bell Helicopter has received an order for 14 Bell 206L4 helicopters from Offshore Logistics Group (OLOG). They will be operated by subsidiaries Air Logistics and Bristow Helicopters. The first machine will be delivered to Air Logistics in May 2004 at Lafayette, Louisiana.

## **BOMBARDIER AÉRONAUTIQUE**

<http://www.bombardier.com>

### **Penske Jet acquires a Bombardier Challenger 800 corporate shuttle**

Penske Jet, a subsidiary of Penske Corporation, will acquire a Bombardier Challenger 800 corporate shuttle for use by Penske subsidiaries Penske Racing and Penske Racing South. The Bombardier Challenger 800, a corporate shuttle version of the Bombardier CRJ regional jet, is scheduled to enter service in January 2004.

### **Launch of the Global Express XRS ultra long-range business jet**

During the NBAA Annual Convention, Bombardier Aéronautique presented the new Bombardier Global Express XRS business jet. Notable improvements, compared with the Global Express, include an increase in range at high-speed cruise, improved take-off performance, and a new fuelling system that shortens the fuelling process. The addition of a fuel tank in the forward wing-fuselage fairing increases the useable fuel capacity by 1,486 lbs (674 kg), and will allow the Bombardier Global Express XRS to fly 6,150 nautical miles (11,400 km) at a cruise speed of Mach 0.85 and 5,450 nautical miles (10,100 km) at Mach 0.87.

The Bombardier Global Express XRS will also have a zero flap take-off setting, allowing it to take-off from hot and high airfields at higher temperatures and with a

greater fuel load. It will thus be able to fly to more cities from more airports worldwide. The Bombardier Global Express XRS will include the Bombardier Enhanced Vision System (BEVS) as standard fit. The heart of BEVS is the CMC Electronics SureSight I-series second-generation sensor, integrated with the Thales Avionique head up display.

### **Consolidation of Learjet and Challenger business jet production at two manufacturing sites**

Bombardier Aéronautique has announced that it will create integrated manufacturing centres for the Bombardier Learjet and Challenger business jet families at its Wichita, Kansas and Dorval, Québec sites respectively. These new integrated manufacturing centres will bring together final assembly and interior completion at one location.

The proximity to the respective supplier base of the two centres will facilitate "just-in-time" delivery for manufacturing operations, and cost reduction initiatives for aircraft systems and components.

### **Delivery of the first CRJ200 to PSA Airlines**

Bombardier Aéronautique has delivered the first of 60 50-seat CRJ200 regional jets ordered in May 2003 by US Airways for operation by its US Airways Express carrier, PSA Airlines, of Dayton, Ohio. The May transaction also includes a firm order for 25 Bombardier CRJ700 series aircraft, with deliveries scheduled to begin in mid-2004.

### **Delivery of Bombardier regional jets to Comair**

This year, Comair Delta Connection has already taken delivery of 23 CRJs, and will receive ten more Bombardier aircraft by the end of the year. The addition of these 33 aircraft will close out the biggest fleet expansion in the airline's 25-year history. By year-end, Comair's fleet will include 156 Bombardier aircraft.

## **CAE**

<http://www.cae.com>

### **CAE Simfinity used for GIV, GV and BBJ training**

CAE SimuFlite is bringing its CAE Simfinity training technology to training for the Gulfstream IV (GIV) and the Gulfstream V (GV). A CAE Simfinity virtual simulator and a CAE Simfinity integrated procedures trainer will be installed for the GIV by January 2004 and for the GV by March 2004. For more than a year, CAE SimuFlite has offered CAE Simfinity-based training to Boeing Business Jet (BBJ) pilots. CAE is now expanding this service by offering personalized, interactive, Internet-based training to BBJ pilots.

### **CAE SimuFlite adds a Citation X simulator**

CAE SimuFlite will add a Citation X Level D Full-Flight Simulator (FFS) to its Dallas training centre. This first

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Citation X simulator installed in CAE's worldwide training network will be ready to enter service in the fall of 2004. It will be fitted with the CAE Tropos visual system and the training program will also use tools from the CAE Simfinity family.

## **Training joint venture in Spain**

CAE and Iberia Airlines have formed an aviation training joint venture that will consolidate the operations of CAE's Alcala training centre and Iberia's training centre at Barajas airport. Iberia will train its 2000 pilots at the centre and revenues of \$30 million are anticipated in the first year. CAE will also offer training to third party customers.

## **Penetration of the Russian market**

CAE has signed an eight-year agreement with Russian airline Aeroflot. Between now and the end of the year Aeroflot will take delivery of a CAE-built A320 simulator, fitted with the CAE Tropos visual system. The agreement also includes an option on a procedures trainer from the CAE Simfinity family.

CAE will install the A320 simulator at Aeroflot's Moscow training centre. Aeroflot will be the primary user, but unused hours will be offered to other customers. The simulator will become part of the growing training network established as a result of CAE-Airbus cooperation. It is estimated that the contract will generate approximately \$2.6 million of revenues per year during its eight-year life.

## **The Embraer 170 simulator is certificated**

The Federal Aviation Administration (FAA) and its European equivalent, the Joint Aviation Authorities, have awarded provisional Level C certification to the Embraer 170 simulator, which was designed and manufactured by CAE. Level D certification should be achieved within the next year, subsequent to availability of definitive aircraft performance data. The simulator, equipped with a CAE visual system, was manufactured for Embraer.

## **Order for simulators**

CAE has signed an agreement in principle with US Airways for the supply of two full-flight simulators, one for the Embraer 170 and one for the Bombardier CRJ200. US Airways will take delivery of the CRJ200 simulator in the spring of 2004 while the Embraer 170 simulator is scheduled for delivery in August 2004. All of the simulators currently used by US Airways were manufactured by CAE. Since the beginning of the current fiscal year, CAE has won 11 of the 12 announced and competed simulator orders, which is more than for the entire previous fiscal year.

## **Training of CH-149 Cormorant aircrews**

The Canadian Department of National Defence has awarded CAE a five-year contract valued at more than \$3 million for the initial and recurrent training of CH-149

Cormorant helicopter crews. The training will take place at CAE's Medium Support Helicopter Aircrew Training Facility (MSHATF) in the United Kingdom. The Canadian Forces use this helicopter for search and rescue (SAR) missions. At MHSATF, the crews will train on the EH101 Merlin simulator because the CH-149 Cormorant is the Canadian version of this helicopter.

## **Subcontract from Lockheed Martin for the United States Air Force C-130J**

Lockheed Martin has been awarded a contract valued at up to \$US 287 million for the supply of systems and services for the training of C-130J aircrews. Lockheed Martin has subcontracted design and manufacture of the training systems required for this contract to CAE, under the C-130J Maintenance and Aircrew Training System (MATS). CAE will build four new simulators for flight crews, three for maintenance technicians and one for loadmasters, and will also provide operational and maintenance support. CAE will also immediately begin construction of three additional C-130J training devices: a Weapons System Trainer (WST), a Flight Controls Trainer (FCT) and an Engine Propeller Trainer (EPT). The CAE subcontracts have a value of more than \$US 100 million.

## **Thales Airborne Systems selects CAE's MAD system**

CAE's Magnetic Anomaly Detection (MAD) system has been selected for installation on the new CN235 aircraft for the Turkish Navy and for any other maritime patrol aircraft that Turkey may acquire. The contract, which was awarded by prime contractor Thales Airborne Systems, is valued at more than \$3 million and the options are worth a further \$4 million.

## **CMC ÉLECTRONIQUE**

<http://www.cmcelectronics.ca>

## **The Satcom antenna and the new Inmarsat Swift64 data transmission service**

Flight tests have recently been carried out on a Honeywell Citation V technology demonstration aircraft, using CMC Electronic's CMA-2102 high gain antenna and a Honeywell/Thales integrated satellite communications (Satcom) system. The flight demonstrations have proven that the new Inmarsat Swift64 airborne high-speed data transmission system performed extremely well.

Inmarsat's new service, which will offer transmission speeds of 64 kbps, will allow passengers to browse the Internet, send emails, and participate in videoconferences almost anywhere in the world. In addition, the service will significantly increase the transmission speed of operations data to and from the aircraft in flight.

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## **The CMA-900 flight management system certified for B747 upgrades**

CMC Électronique has announced that its CMA-900 Flight Management System (FMS), fitted with a Global Positioning System (GPS) and the CMA-2102 high gain communications antenna, have received type certification as part of the avionics upgrade program for some 30 B747 Classic aircraft operated by Japan Airlines. The first modernized aircraft entered service on October 1, 2003.

The CMA-900 is the only FMS currently available for retrofit applications that provides for data link functions equivalent to the Future Air Navigation System FANS-1. The data link software for the Airline Operation Communication (AOC) and Automatic Dependant Surveillance (ADS) has now been certificated. The Controller Pilot Data Link Communications (CPDLC) software will soon be certificated.

## **Electronic Flight Bag (EFB)**

Subsequent to the sale of its Northstar Technologies subsidiary located in Acton, Massachusetts, CMC Électronique has retained and returned to Montréal responsibility for the aviation products of the former Northstar, and has launched its Electronic Flight Bag (EFB) family of products. The aviation products of the former Northstar include the CT-1000G EFB and the M1 and M3 series of GPS.

The CT-1000G EFB is distinctive in being a PC platform in an aircraft qualified system, and is able to readily support Jeppesen FliteDeck, moving maps, customizable checklists and real time weather data. It is factory-installed on the Gulfstream GIV and GIV-SP. It has also been adapted for installation in helicopters and for use in paramilitary missions. CMC anticipates adding new applications and developing a second generation EFB, which will offer more flexibility to pilots.

## **CREAFORM**

<http://www.creaform3d.com>

## **Partnership agreement with Aventec**

Further to a partnership agreement with Ontario company Aventec, Creaform can now offer integrated IBM PLM Catia, Reverse Engineering and 3D Inspection solutions to the Québec aerospace industry.

## **Investments by Creaform**

Creaform has recently invested \$160,000 in 3D digital technologies, Scan Laser, Bras Faro and Catia V5.

## **HÉROUX-DEVTEK**

<http://www.herouxdevtek.com>

## **Long-term agreement with Boeing**

Héroux-Devtek and Boeing Phantom Works have signed a Long-Term Agreement (LTA) related to a contract with the United States Air Force (USAF). The contract has a value of \$17 million plus \$50 million if options are converted. This Long-Term Agreement designates Héroux-Devtek as the exclusive supplier of the landing gear system for the USAF portion of the Boeing X-45 Joint Unmanned Combat Air System (J-UCAS) program and future versions of the X-45 for the USAF. The duration of this performance-based will be ten years.

## **Award of contracts valued at \$21.6 million**

GE Aircraft Engines has selected Héroux-Devtek's Gas Turbine Components Division to manufacture new components for the CF34, CFM56, CF6, T700, LM2500 and CFE738 engines. These contracts have a total estimated value of \$21.6 million.

## **LEAP AIR SERVICES**

<http://www.leapair.com>

## **New aircraft engine MRO services company**

Three former employees of Pratt & Whitney Canada have combined their 25 years of experience to form Leap Air Services, a consulting company specializing in the PT6A, Twin-Pac, JT15D and PW100 aircraft engines. Services are provided to aircraft owners and pilots.

## **LSI LUMINESCENT SYSTEMS CANADA**

<http://www.lumsys.com>

## **ISO 9001:2000 accreditation**

On July 24, LSI Luminescent received ISO9001:2000 accreditation. LSI Luminescent specializes in the design and production of instrument panels, illuminated keyboards and other components that are compatible with night vision goggles.

## **MARINVENT CORPORATION**

<http://www.marinvent.com>

## **2003 business achievement award with Jeppesen**

On October 15, 2003, during its ninth annual award ceremony in Toronto, the Canadian American Business Council announced that the Marinvent-Jeppesen partnership was the recipient of its business achievement award. The award recognizes successful alliances between Canadian and American companies that produce business growth, remarkable innovation, and a noteworthy contribution to the community.

The award recognized the cross-border business partnership between Marinvent Corporation of Saint-Bruno, Québec and Jeppesen Sanderson of Englewood,

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Colorado, which established a new global industry standard for electronic aeronautical navigation charts.

## **NMF CANADA**

<http://www.nmfglobal.com>

### **Acquired by Belgian company Sonaca**

Belgian company Sonaca has joined with the Fonds de solidarité FTQ to purchase NMF Canada, the Mirabel-based manufacturer of aircraft wing skins. The bankruptcy trustee responsible for NMF recommended the joint Sonaca Fonds FTQ proposal, valued at \$41 million, to the Courts. The Fonds FTQ will contribute \$7.2 million to participate in the re-emergence of NMF.

## **OMF AVIATION**

<http://www.omf-aircraft.com>

### **Canadian certification of the Symphony 160**

On June 30, OMF received Transport Canada certification for its Symphony 160 aircraft. Beginning this fall, the Symphony 160 will be produced in the new OMF factory at Trois-Rivières.

## **OPAL-RT TECHNOLOGIES**

<http://www.opal-rt.com>

### **Contribution of RT-LAB engineering simulators to Embraer virtual prototyping**

RT-LAB engineering simulators, developed by Opal-RT Technologies, will feature strongly in the design and simulation of fly-by-wire flight control systems for the next generation of Embraer regional jets.

Embraer's selection is part of its overall virtual prototyping strategy that is intended to reduce the overall development time for its next generation of regional jets.

## **PRATT & WHITNEY CANADA**

<http://www.pwc.ca>

### **Pratt & Whitney Canada PW545B selected to power the new Cessna Citation XLS business jet**

The Pratt & Whitney Canada PW545B engine has been selected by Cessna Aircraft to power the new Cessna Citation XLS, an enhanced version of the popular Cessna Citation Excel. The PW545B is a derivative of the PW545A that has powered the Citation Excel since its service entry in July, 1998. It has a thrust of 1.8 tonnes at 28°C (3,991 pounds at 83°F), which represents an increase of 4.9% compared with the PW545A. The PW545B also offers a 2% increase in climb and cruise thrust above 11,000 m (37,000 feet).

The Cessna Citation XLS is scheduled to enter service in the second half of 2004. P&WC's PW500 turboprop family has accumulated more than 1 million flight hours since its service entry in early 1997.

## **R/D TECH**

<http://www.rd-tech.com>

### **\$10 million investment by the Fonds de solidarité FTQ**

The Fonds de solidarité FTQ is investing \$10 million in R/D Tech. With this increase in capital, the management of R/D Tech intends to acquire companies that will allow it to achieve its strategic objectives in the years to come. R/D Tech designs and manufactures eddy current and ultrasonic test systems that perform manual and automated inspections for the non-destructive testing of metallic parts.

## **SIMGRAPH**

<http://www.simgraph.com>

### **C-130 SBTA software – an industry standard**

Simgraph has announced sales worth more than one million dollars to the United States Air Force Air Mobility Command for its C-130 Simulation – Based Training Aids (SBTA) software. SBTA has become the standard for simulation-based training of crews and maintenance technicians of the C-130 Hercules.

## **SOLUTIONS MINDREADY**

<http://www.mindready.com>

### **Use of IEEE-1394/FireWire (R) technology by Rockwell Collins**

Solutions Mindready is supplying the core technology and necessary expertise to Rockwell Collins for the development of a new fully digital cabin management system, designed for the business aviation market.

Based on IEEE-1394/FireWire (R) technology, the new system allows the transfer of multiple compressed audio-visual (MPEG-2) transmissions on a single cable, which offers a significant reduction in weight and volume compared with currently available digital and analogue systems. These improvements translate directly into a reduction in aircraft operating costs and an improvement in functionality for passengers.

## **TECHSPACE AERO CANADA**

<http://www.techspace-aero.be>

### **Agreement with SMA**

Techspace Aero Canada has signed an agreement in principle with French company SMA for the development and production of the lubrication system for the new

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SMA SR305-230 diesel engine. SMA is owned in equal part by EADS, Renault and SNECMA.

## **THALES CANADA**

<http://www.thalesgroup.com>

### **Launch of a cabin management system**

At the recent NBAA Convention, Thales Avionique launched its new "TopSeries Executive" cabin management system for corporate aviation. This system integrates subsystems for In-Flight Entertainment (IFE), business applications, called "Office in the Sky", and Internet and satellite communications, as well as controlling a range of functions such as lighting, temperature and surveillance cameras. The backbone of the system is a high-speed Ethernet network that uses Internet Protocol (IP).

## **TNM ANODISATION ET PEINTURE**

### **ISO 9001: 2000 accreditation**

On April 15, TNM Anodisation et Peinture received ISO9001:2000 accreditation. The company specializes in anodising, painting, iridizing, passivation and colour anodizing.

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## **II - TECHNOLOGY**

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### **Impending opening of the new Aerospace Manufacturing Technology Centre**

Since last year, the new Aerospace Manufacturing Technology Centre (AMTC) of the National Research Council's (NRC) Institute of Aerospace Research (IAR), has been operational in temporary facilities in the Montréal suburb of Saint-Laurent. Its research team is almost in place and the acquisition and initial operation of the state of the art manufacturing equipment has been substantially completed. The AMTC envisages moving to its new home on the campus of the Université de Montréal at the beginning of next year.

AMTC's primary mission is to contribute to enhancing the competitiveness of Canadian aerospace manufacturing companies by acting as a research and development partner in the insertion of next generation manufacturing processes.

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## **III - INDUSTRY DEVELOPMENT**

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### **AEROSPACE INDUSTRIES ASSOCIATION (AIA)**

<http://www.aia-aerospace.org>

### **United States military orders**

According to aerospace industry information provided by the U.S. Census Bureau, dated August 25, 2003, the United States military order backlog (\$77.66 billion) exceeded the civil backlog (\$66.24 billion) for the first time since 1994.

## **QUALITY**

### **7 AS9100 accredited companies**

Aéro-Mecachrome - CMC Électronique - Harrington - Howmet Laval Casting - Mecair - Meyer Canada - Quéloz

### **31 ISO 9001:2000 (2000 version) accredited companies**

Air Terre Équipement - Airborne - Arell - Automatech Industrielle - CAE (génie logiciel) - CEL - CMC Électronique - CS Communication & Systèmes Canada - Deburex - GGI International - ICT - JSR2 - Ksatria - Liebherr Aerospace Canada - Lockheed Martin - LSI Luminescent - Meloche - Mesotec - Metcor - Oerlikon Contraves - Pôle Air Aviation - Quéloz - Rasakti - Rolls-Royce - Sido - SNC Technologies - Techspace Aero Canada - Terminal & Câble TC - Thermetco - TMH Canada - TNM Anodisation et Peinture - Ultraspec

### **111 ISO 9000:1994 (1994 version) accredited companies**

ABB Bomem - Abipa - ADS Marquez - Advantech - Aéro-Mecachrome - Aéronav - Aérosystème International - Aéro Technique - Agence Mécanique Paré - Air Data - Almaho - Alphacasting - Alta Précision - Amphenol Air LB America - Apex Précision - Apollo Micro-Ondes - Aquacoupe - Aviation Lemex - Avior - Bedco - Bell Helicopter - Bombardier Aéronautique - CAE - Claro Précision - CMR Circuits - Communications Multidev - Composites Atlantic - C.P.S. Industries - CP Tech - CRIQ Essais - CVDS - DCM - Decatron - Delastek - Drummond - Élimétal - EMS Technologies - Farsound - Filetage International - Finecast - FJ - Flexibulb - Focam - GE Elano Canada - Générale Électrique du Canada - Gentner - GFI - Goodrich - Guérette - Harbour - Harrington - Hemmingford - Héroux-Devtek - Honeywell - Howmet - James Dawson - JLM Précision - Lego - Liné - Lyre - Lyster - MagChem - MDS Aero Support - Mecair - Mécanique industrielle B. Courteau - Mechtronix Systèmes - Messier-Dowty - Mil-Quip - Minicut - Moody - Nétur - NMF - Nutech - Optimus - Outillages K&K - Outils Diacarb - Pega Précision - Performance L.T. - Perkin Elmer Optoélectronique - Placeteco - Pratt & Whitney Canada - Précicast - Protec - Pyradia - RDC Contrôle - R/D Tech - Robert Mitchell - Rousseau Contrôles - Sablage au Jet 2000 - Sermatech - Sermati - Shellcast - Sico - Sicotte - Sider-Tech - Simtran - Soudure Aérospatiale - Techniméca - Technique Design de l'Estrie - Tecnickrome - Teco Précision - Tecult Eduplus - Tiger-Vac - TQF - Tribospec - Tuboquip - Usinage Meloche - Usinage P.L. - Usinage Profab Lemex - Werner Metals - Wilson Machinerie.

If your company has received ISO or AS accreditation but is not on our list, please let us know.

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## IV – MANPOWER AND TRAINING

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### **ÉCOLE DES MÉTIERS DE L'AÉROSPATIALE DE MONTRÉAL (ÉMAM)**

<http://www.csdm.qc.ca/emam/>

#### **ÉMAM Mission to France**

A delegation from the École des métiers de l'aérospatiale de Montréal (ÉMAM) visited the Auvergne region of France in October. The purpose of the mission was to meet with aerospace training centres as well as companies active in the sector. ÉMAM intends to establish partnerships with the various participants in the sector.

During this visit, a first apprenticeship protocol was ratified, and several others will follow. Some companies also expressed a strong interest in distance learning. ÉMAM is particularly interested in this subject because several positive outcomes could emerge.

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## V – SHOWS, EXHIBITIONS, MISSIONS AND SYMPOSIA

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### **News from the Québec Aerospace Association (AQA)**

- The next dinner meetings will be held on:
  - 25 February 2004;
  - 21 April 2004.

#### **NBAA 2003**

This business aviation Convention was held between October 7 and 9 in Orlando, United States. It contained a lot of general information on product developments. A summary report of this event is available from Mr. Normand Raymond, at (514) 499-6535.

#### **MDER ministerial mission to France (February 2004)**

The Ministère du Développement économique et régional (MDER) is organizing an aerospace sector ministerial and industrial mission to France which will take place in February 2004.

This mission will be led by Minister Michel Audet and will include around 15 Québec companies, including both prime contractors and SMEs. Its purpose is to develop

and retain partnering relationships with French aerospace companies.

During the mission, companies will visit Paris, Bordeaux and Toulouse in the week of February 16, 2004.

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## CONTACTING US

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"L'Aérospatiale" is also available on the MDER Web site at : <http://www.mder.gouv.qc.ca/aerospatiale>