



L'AÉROSPATIAL

Newsletter

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I – INDUSTRY NEWS

AD OPT TECHNOLOGIES

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

*** Mesaba Airlines contract**

Mesaba Airlines, of Minneapolis (Minnesota), the fourth-largest regional airline in the United States, has selected AD OPT Technologies' workforce schedule planning software (Altitude PBS and Altitude Pairing) for crew scheduling and planning.

AÉRO (ATELIER D'USINAGE) LTÉE

<http://www.aeromachining.com>

*** Expansion**

Aéro (atelier d'usinage) is investing \$9.2 M to move to a new location in Montréal-Nord and undertaking a major facilities expansion. Aéro is purchasing high speed machining centres in order to better respond to the growing needs of its customers. This expansion should create 35 new jobs.

BOMBARDIER

<http://www.bombardier.com>

*** Contracts**

Maersk Air Ltd of Birmingham (England) has purchased two new CRJ700 70-seat regional jets. This order represents the conversion of two existing options.

Air Sénégal International, a subsidiary of Royal Air Maroc, has purchased a 50-seat Q300 twin turboprop from Bombardier.

Horizon Air of Portland (Oregon) has taken delivery of the first of fifteen high-speed 70-seat Q400 twin turboprops. Horizon Air holds options on fifteen additional aircraft.

SkyWest Airlines of St. George (Utah) has placed a major order that could include up to 128 CRJ200 aircraft. The agreement comprises 64 orders (35 firm, 29 conditional) and 64 options. The 64 orders have a value of around 2 billion dollars.

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CAE ÉLECTRONIQUE

<http://www.cae.ca>

* **Medallion visual system delivered to the U.S. Army Research Institute**

CAE has delivered a three-channel Medallion visual system to the U.S. Army Research Institute (Fort Rucker, Alabama) for pilot training. This is CAE's first delivery of this type of system to the U.S. military. The state-of-the-art Medallion visual system can provide colour, geographically-based, real-life or simulated images with photographic quality. This provides increased realism and definition. Medallion will be used with an advanced test bed for research into simulation-based training. Medallion will also be used for the training of AH-64A Apache helicopter pilots.

* **Contract for the training of Canadian pilots in the United Kingdom**

CAE has announced the first third-party training contract at its Medium Support Helicopter Aircrew Training Facility (MSHATF) in the United Kingdom. This new contract with EH Industries covers the training of pilots and flight engineers for the new Canadian Forces EH-101 Cormorant Search and Rescue (SAR) helicopter. This integrated centre was jointly developed by CAE and the United Kingdom Ministry of Defence, and has six simulator bays for training Puma, Chinook Mk2/Mk3 and Merlin Mk3 helicopter crews.

* **First CRJ700 simulator in Europe**

Bombardier, Lufthansa CityLine and CAE have jointly established the first CRJ700 full-flight simulator in Europe. It is located in the Lufthansa CityLine simulation and training centre at Berlin-Schönefeld, and will enter service in March 2001. The centre was created in 1991 by these same organizations and is the leading European centre for training CRJ100 and 200 pilots. Lufthansa CityLine has previously ordered 20 CRJ700s.

* **\$5 M training contract**

CAE has signed a three-year agreement with Brazilian airline Varig for pilot training services. The training, valued at five million dollars, is for Varig's MD-11 fleet and will be delivered at CAE's new state-of-the-art flight training centre in Sao Paulo, which is scheduled to open next April.

HÉROUX-DEVTEK

* **Contract with the United States Air Force**

Héroux-Devtek's landing gear division has received an additional \$8.8 M order from the United States Air Force. The contract covers the maintenance and repair of landing gears for the KC-135, KC-135R and C-130.

* **New orders**

Héroux-Devtek's landing gear division has secured contracts valued at \$27.5 M for the manufacture of

landing gear components for the KC-135R, P-3, C-130 and C-5A and precision components for the Boeing 737, 747, 767 and 777, MD-80, A-340, regional jets and the Bell 206 and 407 helicopters. The majority of these orders are from the United States Air Force and Navy, Certified Aircraft Parts, BF Goodrich, Bell Helicopter and Messier-Dowty.

Héroux-Devtek's landing gear division has announced more than 57 million dollars of new orders since the beginning of this fiscal year (31 March 2000).

PRATT & WHITNEY CANADA

http://www.pwc.ca/www/en_pwc/index2.asp

* **Pratt & Whitney Canada overhauls its 50,000th engine**

Pratt & Whitney Canada (P&WC) has achieved a major milestone in the history of its after-sales service with the processing of the 50,000th engine by its service-centre network.

The engine in question is a PW305B and it has been overhauled by the Pratt & Whitney Engines Services (P&WES) centre in Bridgeport, West Virginia. It powers a Raytheon Hawker 1000 managed by Executive Jet Inc. This is one of 16 P&WC overhaul centres which are located on the five continents.

* **Major contracts**

The Schreiner Aviation Group, a leading European helicopter operator, has ordered two PW206E-powered helicopters to be used in air medical operations. This order caps a successful year for P&WC in the Netherlands. The Dutch Police ordered four MD Explorers with PW207E engines and Freedom Explorer will purchase two Agusta A109E Power helicopters equipped with the PW206C. The PW200 family of engines also powers the Bell 427, the Eurocopter EC135 and the Kazan Ansat.

SEXTANT

* **Sextant becomes Thales Avionique**

As a result of the change of name of the French group Thomson-CSF, its Canadian subsidiary Thomson-CSF Sextant Canada will now be known as Thales Avionique Canada. This company now employs around one hundred people in Saint-Laurent and its activities include development of flight control systems.

SYSTÈMES BAE CANADA

<http://www.baesystems.com/>

* **GPS for Honeywell**

Systèmes BAE Canada has signed an agreement with Honeywell for the supply of its latest generation of Global Positioning System (GPS) receivers. The receivers will be integrated into the Local Area Augmentation System (LAAS) as well as in several of Honeywell's airborne navigation and landing products. The agreement has a potential sales value of more than

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\$50 M. The new Systèmes BAE Canada CMA-4024 GPS receiver has 24 channels and is designed to achieve the full Wide Area Augmentation System (WAAS) Category 1 approach capability and the LAAS Category IIIB capability. Systèmes BAE Canada has been developing certificated GPS systems for more than 20 years and has already delivered more than 5,000 GPS receivers to Honeywell.

*** Flight management systems in Saudi Arabia**

Systèmes BAE Canada has won a contract related to the upgrade of navigation systems in Saudi Arabian Airlines' fleet of 12 B747-200/300s. BAE Canada will supply a triple CMA-900 flight management system (FMS) incorporating a Global Positioning System (GPS). This will provide flight crews with the interfaces required to benefit from the Future Air Navigation System (FANS). The first installation is scheduled for April 2001.

ULTRAOPTEC

*** New facilities**

UltraOptec has moved into its new offices at 4815 de la Savane, in Saint-Hubert (Québec). This will allow UltraOptec to offer laser ultrasonic inspection services. The company can be contacted at (450) 656-1010.

II – MANPOWER AND TRAINING

ÉCOLE NATIONALE D'AÉROTECHNIQUE

<http://www.collegeem.qc.ca>

*** Adult education**

The continuing education department of the École Nationale d'Aérotechnique (ÉNA) is now offering customized part-time and full-time courses which are intended primarily for people working in the aerospace industry. Examples include aerospace computer-aided design (CAD), drafting, manufacturing (CAM) and animation etc. Additional information is available at the Web site referenced above.

III - TECHNOLOGY

CRYOGENIC THERMAL TREATMENT FOR WEAR RESISTANCE

High temperature thermal treatments are in common use to improve the characteristics of metals, but recourse to tempering at -320 F is rare. Using such a treatment, Crycon recently succeeded in doubling the life of aircraft brake discs (AW & ST, 11 September 2000, p. 77). The procedure is described by patents which date back to 1975 and 1984 (US 3891477 and US 4482005, referenced on <http://www.delphion.com>). These patents demonstrate an improvement in alloy microcrystalline structure resulting in a 6 to 13 times increase in the life of steel tools. This process is also applicable to non-steel alloys.

IV – SHOWS, EXHIBITIONS AND SYMPOSIA

MRO CONFERENCE AND EXHIBITION

A Maintenance, Repair and Overhaul (MRO) conference and exhibition will take place from April 3 to 5, 2001, at the Wyndham Anatole Hotel, Dallas, Texas.

Additional information is available at the following web site:

<http://www.aviationweek.com/conferences/mromain.htm>

V – INDUSTRY DEVELOPMENT

QUALITY

*** One hundred and thirty-eight ISO-registered companies**

ABB Bomem - Abipa - Aéro Ltée - Aéronav - Aérosystème - Aérotech Tubetronics - Agence Mécanique Paré - Airborne - Air Data - Air Terre Équipement - Almaho - Alphacasting - Alta Précision - Amphenol Air LB - Apex Précision - Apollo Micro-Ondes - Aquacoupe - Arell - Automatech - Avcorp Industries - Aviamatic - Aviation Lemex - Bedco - Bell Helicopter - Bombardier Aéronautique - CAE - CEL Equipements d'Essai - Claro Précision - CMR - CPS Industries - CP Tech - Composites Atlantic CRIQ Essais - CRL - Communications Multidev - CVDS - DCM - Deburex - Decatron - Delastek - Drummond - EG & G Optoelectronics - Élimétal - EMS Technologies - Farsound - Filetage International - Finecast - FJ inc. - Flexibulb - Focam - Générale Électrique du Canada - GFI - GGI - Guérette - Harbour - Harrington - Hemmingford - Henri Liné - Héroux-Devtek - Hochelaga Aérospatiale - Honeywell - Howmet (moulage d'aluminium) - James Dawson - JLM Précision - Lego - Les industries Profab - Les outillages K&K - Les treppeurs Thermetco - Lockheed Martin - LSI Luminescent - Lyre - Lyster - Mag-Chem - Marquez Transtech - Mechatronix Systems - MDS Aero Support - Meloche - Mésotec - Metcor - Messier-Dowty - Mil-Quip - Minicut international - Nétur - NMF - Nutech - Oerlikon - Optimus - Outils Diacarb - PAM Électronique - Pega Précision - Placeteco - Pratt & Whitney Canada - Précicast - Profab - Protec - Pyradia - Pôle Air Aviation - Quéloz & Associé - Rasakti - RDC Contrôle - Robert Mitchell - Rolls-Royce - Rousseau Contrôles - R/D Tech - Sablage au jet 2000 - Sermatech - Shellcast - Sico - Sicotte - Sider-Tech - Sido - SNC TEC - Simtran - Soudure Aérospatiale - Systèmes BAE Canada - TEAM - Technique Design - Technimeca - Tecsuit Eduplus - Technickrome - Teco Precision - Termaco - Terminal & Câble TC - Thermetco - Tiger-Vac - TMH Canada - TNM anodisation et peinture - TQF Technologies - Tribospec - TRW Systèmes Aéronautiques - Tuboquip - UDT - Ultraspec - Usinage P.L. - Wai mea - Werner Metal - Wilson Machinerie.

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ISO 9000 registered companies generate more than 90% of Québec's aerospace output. If your company is ISO registered, but not on our list, please let us know.

- * **The Department of National Defence will require ISO 9000:2000**

On November 9, the Quality Assurance Directorate (QAD) of the Department of National Defence (DND) informed its suppliers that, as of April 2001, it will require progressive application of ISO 9000:2000 in new contracts. However, until further notice AQAP will remain the required standard for NATO contracts for which QAD has responsibility. The ISO standard is available at <http://www.global.ihs.com/>.

ELECTRONIC COMMERCE

- * **Central source of information for spare parts, etc.**

The Air Transport Association (ATA) of the United States is a trade organization for the principal U.S. airlines. It has launched an electronic commerce service named SPEC2000.com to facilitate access to information on spare parts, tooling and repair stations. Large portals such as AirNewco (recently merged with MyAircraft.com) and AeroXchange use the ATA listings. A free 90-day trial service is available to suppliers. Additional information is available at www.SPEC2000.com.

- * **Moving towards standardized catalogues**

The proliferation of aerospace portals based on differing software systems (Exostar, MyAircraft, AeroXchange, Avolo, PartsBase, Aerospans, etc.), has reached the point where a supplier who wants to place his catalogue on all these sites has to create different versions for the various sites. IBM, Microsoft and Ariba have launched the Universal Description, Discovery and Integration (UDDI) project whose goal is to develop, within 18 months, standard specifications based on the XML language, an extension of HTML. With the exception of Oracle, all the large software companies are participating. Additional information is available at www.uddi.org.

CONSULTING SERVICES

- * **Network of advisors who facilitate innovation management**

The private sector service providers of the *Réseau Canadien de Technologie QUORUM-RCT* (Canadian Technology Network), a not-for-profit organization supported by the CNRC, are a team of professionals who facilitate SME access to experts in innovation. QUORUM-RCT offers a free resource location service to SMEs which are interested in applying innovation techniques to their business. The consultants' areas of expertise include R&D, financing, production, marketing, human resources and legal, all related to innovation. SMEs who are interested in this service, and private sector service providers who wish to become members of Quorum can telephone at (514) 875-1888 or refer to the Web site: www.quorum-rct.org.

CONTACTING US

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- * **"L'Aérospatial" is now also available on the MIC Web site at:**

<http://www.mic.gouv.qc.ca/aerospatiale>