



Toronto Branch Membership Newsletter

CASI NEWS

UPCOMING EVENTS

Our traditional March meeting is a tour of a local aerospace facility. This year, on **Thursday, March 22, 2007**, the Toronto Branch will visit **Porter Airlines**, at Toronto City Centre Airport. The evening will begin at the National Yacht Club with a presentation on the airline, after which we will take the ferry across to the airport for a tour of Porter's facilities. Space on the tour is limited, so you must register in advance (first come, first served, with preference given to CASI members). Your registration must be received by **March 21**. Please see the enclosed meeting notice for further details.

Our final event of the season will be our **Annual Dinner Meeting**, to be held on **Saturday, April 28, 2007**. Our guest speaker will be **Dr. James DeLaurier**, who will be speaking on his flapping wing research, culminating in the flight of his full-scale ornithopter last summer. The CASI Toronto Branch **Student Awards** will also be presented at the meeting. More details, including venue, ticket sales, and how you can redeem your CASI Knots for a discount, will be available next month.

RECENT EVENTS

On February 22, the CASI Toronto Branch enjoyed a presentation by guest speaker Allan Noble, Project Engineer on the PW610 and PW615 Turbofans at Pratt & Whitney Canada. Allan's talk, entitled "The PW600 Turbofan Powers the VLJ Market", discussed the new family of small turbofans being developed at PWC for the new Very Light Jets such as the Cessna Citation Mustang and the Eclipse 500. See the Toronto Branch section of the CASI website for a more detailed report of the meeting.

CASI KNOTS

The CASI Knots that you have been accumulating all season, by attending our monthly meetings and otherwise participating in our events, can be redeemed for a discount on your ticket to our Annual Dinner Meeting on April 28. Eligible CASI members will be notified of their total knots and discount entitlement next month. Please take advantage of this great offer, and join us at our Annual Dinner Meeting on April 28.

CASI AERO 2007

Don't miss the annual CASI Conference and AGM, being held on **April 24-26, 2007** at the **Westin Bristol Place Hotel in Toronto**. The event includes symposia on Aerodynamics, Aerospace Structures and Materials, Aircraft Design and Development, Flight Test Methods, Propulsion, and Unmanned Aerial Vehicles, plus the Senior Awards Banquet, the Rupert Turnbull Lecture, and the annual business meeting. For more information, and to register online, please visit the CASI website (www.casi.ca).

CASI is looking for student volunteers to help out at the conference. In addition to contributing to CASI, this is a great opportunity for students to meet leaders in the aerospace industry, hear some interesting papers, and do some personal networking (remember, it's job-search time!). Contact April Duffy at CASI HQ for details (casi@casi.ca).

ARTICLES FOR THE FLYER

The goal of the CASI Toronto Flyer is to bring news of the Greater Toronto Area aerospace community to Toronto Branch members. We are always looking for articles for upcoming issues, and we welcome any input from

our members. We will publish articles or press releases describing the achievements of local aerospace companies (both large and small), articles promoting the accomplishments of individual professionals or students, local aerospace job postings, notices of upcoming aerospace-related events, and reports of past events. All submissions should be sent to the Flyer editor, Nisha Sarveswaran, at m.sarveswaran@gmail.com.

Thanks in advance for your contributions.

VOLUNTEERS FOR TORONTO BRANCH EXECUTIVE

The Toronto Branch Executive is already looking ahead to next season, and we would welcome some new volunteers to serve on our executive committee. The Branch executive meets approximately nine times per year, from August to May, to organize the Toronto Branch events. No special skills are required, just a modest contribution of your time, and of course your enthusiasm. If you would like to join our team, please contact one of the current executive members listed below.

Chris Hayball
(416) 375-3715

Alex Tsoulis
(905) 740-2063

Eric Herrmann
(416) 375-3025

Gillian Clinton
(416) 218-9038

Bhuwan Jain
(905) 827-7777 Ext 3900

CASI RYERSON STUDENT BRANCH PRESENTS 2007 VIDEO NIGHT

Take a break from the stress of school! Sit back and enjoy a mix of Aviation and Space videos obtained from local companies, national organizations and private individuals that you would not see on television!

Also presenting: Alex Tsoulis – Managing Director Structures Engineering, Mecachrome. Alex will make a short presentation on the current trends in the Aviation industry today.

Admission is free and refreshments will be available

Date: **March 8th, 2007**

Time: 7 pm

Place: Room 108, ENG building, at the corner of Church and Gould.

INDUSTRY NEWS



PRATT & WHITNEY CANADA PT6C-67E ENGINE TO POWER EC175/Z15 HELICOPTER

HELI-EXPO 2007 - Orlando, Florida, Feb. 28, 2007 - Pratt & Whitney Canada Corp.'s (P&WC) new generation PT6C-67E engine was confirmed today to power the EC175/Z15 medium-sized helicopter, being developed by Eurocopter and Harbin Aviation Industry Group, a subsidiary of China's AVIC II corporation. P&WC is a United Technologies Corp. (NYSE: UTX) company.

"This is a great program for our PT6C-67E engine," says Keyvan Fard, Vice President, Regional Airlines & Helicopter Engines, P&WC. "This engine is now equipped with a dual-channel full-authority digital electronic control (FADEC) system, which offers reduced pilot workload along with increased dispatch reliability."

The PT6C-67E is the latest derivative of the world-renowned PT6 turboprop/turboshaft family, recognized for its outstanding reliability and durability. Already installed on the Agusta Westland AW139 helicopter and Bell/Agusta Aerospace BA609 Tiltrotor, the PT6C-67 family of engines is helping to redefine the medium helicopter category.

"The PT6C series, rated from 1,600 to 2,000 shp, is designed with the operator in mind," says Fard. "It also offers among the lowest maintenance costs and emission levels in the industry. As is the case with all our engines, it

is backed by P&WC's extensive global customer support network, ranked No. 1 for helicopter engine support by the industry for the last seven years.

"P&WC's customer support includes over 30 P&WC-owned and designated overhaul facilities, field support representatives strategically located on all major continents, mobile repair teams available around the clock, the largest pool of P&WC rental and exchange engines in the industry, a global network for accelerated distribution of parts and a 24-hour customer help desk offering fast and expert support.

FIELD AVIATION

FIELD AVIATION SELECTED FOR THREE DASH 8 Q SERIES MARITIME PATROL/SAR AIRCRAFT

February 2, 2007

FIELD AVIATION COMPANY Inc. (FIELD AVIATION) is pleased to announce that it has been awarded a contract to convert three Bombardier de Havilland DASH 8 turboprop aircraft into Maritime Patrol/Search and Rescue aircraft for Japan Coast Guard.

Sojitz Corporation of Japan is the prime contractor to the Coast Guard and will acquire three Q300 turboprops from Bombardier Aerospace.

For the Japan Coast Guard contract, FIELD AVIATION will modify three DASH 8 aircraft for Bombardier with a missionized interior, large conformal observation windows, air

operable door and air-drop hatch, as well as the latest technology surveillance sensors which include a 360° surface search radar and a stabilized electro-optical multi-spectral imaging payload. A new suite of modern mission navigation and communications systems will also be fitted. The aircraft modifications will start in November 2007 and be accomplished at the FIELD AVIATION Mod Centre at Toronto's Lester B. Pearson International Airport.

The aircraft will be operated as the next-generation fixed-wing turboprop for maritime patrol and search and rescue duty within Japan's area of maritime responsibility.

Additional customers for FIELD's DASH 8 MSA modifications include US Customs and Border Protection where the first of a fleet of Series 200 MSAs entered service in 2005, and the Swedish Coast Guard which will receive three Series 300 MSA/SAR aircraft in 2007. Surveillance Australia operates or has on order, ten DASH 8 MPA aircraft modified by FIELD, which provide airborne surveillance of the Australian EEZ as part of the *COASTWATCH* program.

FIELD AVIATION is recognized worldwide for its conversions of heavy turboprop and turbofan aircraft for Special Missions. With a focus on end-to-end solutions for parapublic, defense and specialized air support operators who require fast deployment of cost-efficient reliable airborne platforms, FIELD AVIATION celebrates its 60th year of operation in Canada in 2007.



MAGELLAN LAUNCHES INDIA'S FIRST SPECIAL PROCESSING FACILITY TO SUPPORT AEROSPACE MANUFACTURING WITH QUEST

Toronto, ON, February 5, 2007

Magellan Aerospace announced today the formation of a 50:50 joint ownership company with QuEST Machining & Manufacturing to launch the first independent processing facility in India to cater to the needs of the aerospace manufacturing industry.

Magellan has been developing a supply chain in India for three years, focusing on finished machine parts. The addition of Customer-approved processing is key in fully developing the supply chain. The launch of this processing facility positions Magellan and QuEST as early adopters in aerospace supply chain development in India. This facility will initially focus on processes for aluminum, titanium, and stainless steel components for aero-structure and aeroengine components. The new facility, scheduled to open in early 2008, will be 10,000 sq. ft. and has a scaleable layout to accommodate future growth.

Magellan is working closely with its key Customers to meet their needs in the Indian market. "This is a key step in offering our Customers a global solution," said Mr. Jim Butyniec, President of Magellan Aerospace. We are pleased with our decision to partner with QuEST to set up the processing facility and view it as a natural extension of our existing relationship. "QuEST is a

dynamic and innovative company that knows the Indian and international markets well, and has the manufacturing capabilities and capacities required to support aerospace market needs."

"We are extremely excited and honoured to grow our relationship with Magellan Aerospace from a customer to an equal partner in this venture. Magellan brings a very high-level of expertise to this relationship and we are looking forward to a successful partnership," said Mr. Aravind Melligeri, President and CEO, QuEST Machining & Manufacturing.



**ON MARCH 31, 2007, THE
TORONTO AEROSPACE
MUSEUM WILL HOLD
ANOTHER SESSION OF
"FUTURE PILOTS SCHOOL
(LEVEL 2)" FOR CHILDREN, AT
ITS HANGAR AT DOWNSVIEW
PARK, FROM 10:00 A.M. TO
3:30 P.M.**

In Level 2 of this program, future pilots will build upon their skills learned in the Level 1 program, and will focus on weather, navigation, simulator flying using instruments, and engines. They will have an opportunity to sit down with one of our pilots and go over cockpit procedures for a typical flight.

This level of the program costs \$45, which includes a pizza lunch.

A unique aspect of the program is that the instructors will use the museum's collection of a dozen rare aircraft to illustrate the course material.

Each year more than 5,000 students visit the Museum on school field trips to learn about flight and Canadian history. School visits have increased by more than 20% in 2005 as a growing number of teachers have discovered the museum's curriculum-tailored courses for students of all ages.

The Museum's growing aircraft collection includes a full scale replica of the famous Avro Arrow, completed in 2006; the City of Toronto's rare 1945 four-engine Avro Lancaster bomber; a Tiger Moth trainer built at Downsview in 1942; and the ultra light Easy Riser aircraft used by "Father Goose" Bill Lishman to lead geese in formation flight.

To register for the Future Pilots School or other educational programs, please contact John Harper, Educational Director, at 416-638-6078 or email education.tam@bellnet.ca.

DIAMOND AIRCRAFT

**FEBRUARY. 22/07
DA42 RECEIVES AERO-
NEWS NETWORK PLANE OF
YEAR AWARD**

DA42 continues to collect awards.

Aero-News Network congratulated Diamond Aircraft "for a magnificent effort and for producing an aggressively innovative, yet solid, product",

naming the Diamond DA42 as 2006 Airplane of the Year in the General Aviation Piston Twin category. The DA42 has also been named 2006 Airplane of the Year by Aviation Consumer magazine, and received the 2006 Editor's Choice Award from Flying magazine. Previously the Twin Star received Robb Report's Best of the Best award, and Popular Science magazine's Top 100 Technology Innovation award.

The February 21 issue of Aero-News states "No airframe represents as much real progress in every aspect of aviation technology (airframe, powerplant and avionics) as does the Diamond DA42. It remains the single most innovative aircraft currently offered to GA... bar none (at least until the D-JET gets into production)".

Diamond's DA42 offers twin engine safety with the ease of operation, and acquisition and operating costs of high performance singles.



COM DEV TO BEGIN WORK ON GLOBALSTAR -2 CONSTELLATION

CAMBRIDGE, ON – February 27, 2007 - COMDEV International Ltd. (TSX: CDV) today announced that it has received an Authorization to Proceed (ATP) from Alcatel Alenia Space to provide advanced payload electronics for the Globalstar-2 satellite constellation. The ATP is valued at \$3.5 million [USD] and is expected to lead to a contract with a total value in excess of \$20

million [USD]. Globalstar has announced plans to launch 48 satellites to integrate with and eventually replace its first generation constellation, which provides satellite voice and data services to over 120 countries on six continents.

"We are pleased to be selected to participate in the second generation of one of the world's major satellite communications constellations," said John Keating, CEO of COM DEV. "This program marks a significant milestone in our growing relationship with Alcatel Alenia Space."

COMDEV will announce full details of the contract once it has been finalized.

BOMBARDIER

BOMBARDIER SIGNS ADRIA AIRWAYS FOR TWO CRJ900 JETS

Toronto, February 28, 2007

Seventh European airline to order the aircraft

Bombardier Aerospace announced today that Adria Airways, the national carrier of Slovenia, has placed a firm order for two *Bombardier CRJ900* 86-seat regional jetliners.

"Adria will be the seventh European airline and 12th worldwide to order the *CRJ900* aircraft," said Steven Ridolfi, President, Bombardier Regional Aircraft. "With orders for 175 aircraft, many placed over the last 18 months, we see evidence that customers are recognizing the advantages of the *CRJ900* aircraft in terms of economy,

efficiency and passenger comfort."

Adria joins other European carriers Air Nostrum, Air One, Atlasjet Airlines, Lufthansa CityLine, MAT Macedonian Airlines and My Way Airlines which have ordered the *CRJ900* airliner.

Adria Airways has been a Bombardier customer since March 1997 when it placed an initial order for two *Bombardier CRJ200* LR 50-passenger regional jets. It currently operates seven of these aircraft.

"The *Bombardier CRJ900* will allow us to do two things, increase capacity beyond 50 seats and replace the Airbus A320 where passenger loads are insufficient to support the larger aircraft," said Tadej Tufek, Chief Executive Officer, Adria Airways. "The *CRJ900* is the most efficient and economical way to reach these two goals."

Adria Airways is also the *Bombardier CRJ* Recognized Service Facility (RSF) in Europe, providing heavy maintenance for all models of the *CRJ* Series.

BOMBARDIER SELLS 30 CRJ900 REGIONAL JETS TO DELTA AIR LINES

Toronto, February 08, 2007

Bombardier Aerospace announced today that Atlanta, Georgia-based Delta Air Lines has placed a firm order for 30 *Bombardier CRJ900* regional jets and has taken options on an additional 30 *CRJ900* aircraft. The approval for this contract was granted by the United States Bankruptcy Court, Southern District of New York. The contract value for the 30 firm

ordered aircraft, based on CRJ900 aircraft list price, is approximately \$1.1 billion US. If all options are exercised, the value of the contract could rise to \$2.3 billion US.

“Delta Air Lines and its Delta Connection carriers have been *Bombardier CRJ* aircraft customers since 1989 and currently operate more than 350 *CRJ* Series aircraft,” said Steven Ridolfi, President, Bombardier Regional Aircraft. “Delta has played a major role in the success of the *CRJ* program and we are grateful for their continuing confidence in our regional jet products.”

“The acquisition of these aircraft will help Delta meet its network and operational needs for 2007 and 2008, allowing us to continue providing convenient service to the places where customers most want to travel,” said Shawn Anderson, Delta’s Vice-President of Delta Connection. “The fit with our fleet, timing of delivery and ownership economics made the *Bombardier CRJ900* aircraft the best overall solution to meet our needs.”

Bombardier CRJ705 and *CRJ900* aircraft have now been ordered by, or are in service with operators which include, Air Canada Jazz, Air Nostrum, Air One, Arik Air, Atlasjet Airlines, Lufthansa CityLine, MAT Macedonian Airlines, Mesa Air Group, My Way Airlines, Northwest Airlines, SkyWest Airlines and Delta Air Lines.

Today’s order announcement increases *CRJ* Series total firm orders to 1,515 aircraft. As of October 31, 2006, Bombardier had delivered 1,395 *CRJ* Series aircraft to customers around the world.



TWO MORE ALTM SYSTEMS TO TERRAPOINT CANADA

Toronto, February 28, 2007 : Optech Incorporated is pleased to announce the sale of two additional ALTM 3100EA systems to Terrapoint Canada/USA Inc. This latest purchase by Terrapoint will bring the total number of Optech ALTM 3100EA systems in their fleet to three, making the Houston-Calgary-Ottawa based firm one of the largest lidar operators in the world, and certainly the largest lidar firm based in the Americas.

“We’re delighted that Terrapoint has chosen to purchase not one, but two additional ALTM 3100EA systems,” says Don Carswell, President of Optech Incorporated. “In the past Terrapoint actually manufactured their own lidar sensors. Having a group so intimately involved in lidar, choose to purchase an ALTM , rather than produce one of their own sensors, is a compliment that any manufacturer would be pleased to receive. With Terrapoint’s purchase of their third ALTM 3100EA, this compliment becomes even more powerful.”

“The positive experience we had in 2006 with our initial ALTM 3100EA drove the decision to purchase the additional systems,” says James Ferguson, President of Terrapoint Canada. “Our vision is to become a “Top 3” firm in the provision of high quality, high value geospatial solutions, and this acquisition brings us closer to that goal. We can now service our growing client base with a current total of eight multi-

range and multi-use lidar sensors, as well as allowing us to embark on initiatives such as WestMap Canada - the largest and most ambitious high resolution geo-information data acquisition program in the world.”

CASI CORPORATE PARTNERS IN THE TORONTO AREA

BOMBARDIER

