



MAY 25-29, 2015

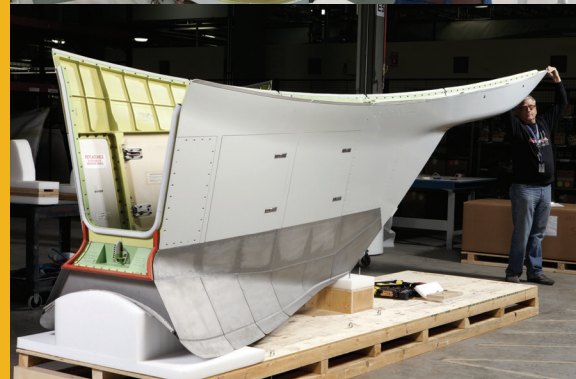
MANITOBA AEROSPACE WEEK

**BUILDING
OUR FUTURE**

MANITOBA  AEROSPACE

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Clockwise from left: The StandardAero team competes in Dragon Boat races to raise funds for cancer research and care. Boeing Canada, Winnipeg employees help out at Siloam Mission. Students work on projects for the Student Spaceflight Experiments Program, supported by Magellan Aerospace.



Top: Winnipeg Airports Authority is among the supporters for Winnipeg Harvest's Grow-a-Row program. Above: B/E Aerospace fundraisers for the United Way included a pancake breakfast.

MANITOBA AEROSPACE

BUILDING A BETTER FUTURE

Manitoba aerospace companies are building a better future around the world, and right here at home.

Driven by explosive growth in global air travel and large fleets of aging aircraft needing replacement, the demand for new aircraft is strong. At the same time, international regulations covering noise and emissions are increasing, volatile fuel prices demand improved efficiency, passengers want more amenities and air carriers are striving to reduce their carbon footprints.

Industry is responding by developing lighter, quieter, and more fuel-efficient aircraft. Increased use of composite materials, next generation engines — many of which will be tested here in Manitoba — and better winglets and aerodynamics are some of the design changes that will allow the next generation of aircraft to provide greater comfort to passengers while leaving a smaller impact on our environment. With new, greener manufacturing processes we will also reduce our impact to create better aircraft.

As well as building better aircraft, Manitoba aerospace companies are building better communities.

Whether it's Boeing Canada Winnipeg's support of Siloam Mission, Magellan Aerospace's support of sending student science projects into space, Cadorath's Adopt-a-Daycare program, B/E Aerospace's support for the United Way, Winnipeg Airport Authority's support for Winnipeg Harvest's Grow-a-Row program, StandardAeros' participation in the annual Dragon Boat races or Keewatin Air's support for health care in Nunavut — to name just a few causes — Manitoba aerospace companies are proud to support their communities.

Recently, one of our aerospace companies was recognized by its peers for their

outstanding support to Manitoba communities for more than 40 years. Last month, at the Canadian Manufacturers and Exporters (CME) Manitoba Gala Dinner, Boeing Canada Operations Ltd. received the inaugural Community Contribution Award from the CME. The Community Contribution award celebrates Manitoba companies who have, over time, demonstrated a commitment to supporting and building their community.

In addition to the generosity of our individual companies and their employees, Manitoba's aerospace industry has come together to support innovative and award-winning education and career building programs.

Career Trek offers 10- and 11-year-old kids hands-on experience in different careers, and gets them excited about one day going to university, college or taking part in an apprenticeship. The Aerospace Manufacturing & Maintenance Orientation Program, offered in partnership with Tec Voc High School, helps adult students learn the skills that will lead to a career in the aerospace industry. Both of these programs have won national and international awards and have brought great success to the students.

Manitoba aerospace companies have also created the Manitoba Aerospace Student Awards program to provide scholarships and awards to high school and post-secondary students.

Each year, the Manitoba Aerospace Association (MAA) and Manitoba Aerospace Human Resource Council (MAHRC) hold an Aerospace All-Stars Awards gala event and an annual golf tournament, with all net proceeds going to the Manitoba Aerospace Student Awards Endowment Fund. To date, Manitoba aerospace companies have raised over \$137,000 and have endowed six student

MANITOBA AEROSPACE ASSOCIATION MEMBERSHIP 2015:

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MESSAGE FROM THE PRESIDENT



Kim Olson

Manitoba's aerospace industry has been building a better future for over 100 years. From the earliest beginnings of flight in Western Canada and the opening of the North to some of today's most advanced manufacturing, repair, overhaul, testing and certification and space technologies, Manitoba's aerospace companies deliver superior aerospace products and services across Canada and around the world. With our commitment to supporting our employees and our communities, we also build better futures right here at home.

Collaboration and relationship building is at the heart of the Manitoba Aerospace Association. We bring organizations together so we can improve as companies and grow stronger as an industry. It is a signature characteristic of our aerospace cluster that is often noted by visitors, customers and collaborators from across the globe.

In this past year we have focused on opportunities for collaboration

on research and development, both across the aerospace community and between sectors like aerospace, ground transportation and biomedical. We created the Manitoba Aerospace Research and Technology Committee (MARTC) to lead the implementation of our Technology Roadmap, worked with the Industrial Technology Council and the Vehicle Technology Centre to support a new NRC facility for Manitoba, and agreed to host the regional office for the new Consortium for Aerospace Research and Innovation Canada (CARIC).

We also worked with our educational partners to provide more opportunities and build better futures for Manitoba learners. We created new endowment funds with the University of Manitoba and Red River College and increased the value of our six annual scholarships and awards.

Our association, like our industry, continues to grow. We welcomed a number of new members this year — Canadian Propeller, OIC Precision Labs, and Precision ADM — and we have seen our local companies attracting the attention of larger, multi-national aerospace companies looking to invest in Manitoba. B/E Aerospace, a global leader in the design and manufacture of aircraft cabin interiors, has recently come to Canada through the acquisition of EMTEQ, and we are pleased to welcome them into the Association.

During Aerospace Week, we celebrate the success and the future of a Manitoba industry that keeps the world moving, provides rewarding careers for our community, and helps build a strong economy.

This year we are also celebrating the support our members give to building stronger communities. Working together makes us stronger, in business, around the world, and right here at home.

Kim Olson, President, MAA
Senior Vice President,
StandardAero

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OPPORTUNITIES AT YWG

GREETINGS

Minister of State for Western Economic Diversification

On behalf of the Government of Canada and Prime Minister Stephen Harper, I am pleased to extend greetings to you during Aerospace Week in Manitoba. The aerospace industry is an important part of the Canadian economy. In Western Canada, the



**The Honourable Michelle Rempel,
Minister of State for Western
Economic Diversification**

sector supports the employment of approximately 27,000 people and generates more than \$4.5 billion in annual revenues. I am pleased to tell you that we have taken steps in Economic Action Plan 2015 to ensure the continued growth of the aerospace industry while making it stronger and more competitive. Those steps include:

- Extending the Accelerated Capital Cost Allowance for investments in manufacturing and processing machinery and equipment;

- Supporting the implementation of the Defence Procurement Strategy, to ensure that we generate high-quality jobs, stimulate innovation, and promote exports;
- Supporting cutting edge research and technology development in Canada's Satellite communications sector;
- Supporting business and industry associations to work with post-secondary institutions to better align curricula with the needs of employers;
- Investing in the National Research Council Factory of the Future project, which will enhance the competitive position of companies in the aerospace and automotive sectors by providing access to collaborative research and advanced manufacturing techniques in Winnipeg, London and Montreal; and
- Hosting opportunities for networking and collaboration, such as the recently held Western Innovation Forum (WIF), an industry-oriented conference aimed at connecting Western Canada's aerospace, marine, defence and security industries to innovation-driven investment, partnership and business opportunities.

I am proud of the support our Government has provided to this vibrant and growing sector. Manitoba is home to the largest aerospace sector in Western Canada, and its export oriented companies play a key role in the world's aerospace supply chains.

I look forward to continued collaboration in order to further strengthen the aerospace sector in Manitoba and across the West, as together we are showing Canada and the world that *Canada's West Means Business*.

**The Honourable
Michelle Rempel
May 2015**

SALUTATIONS

Ministre d'État Diversification de l'économie de l'Ouest

Au nom du gouvernement du Canada et du premier ministre Stephen Harper, je suis heureuse de vous transmettre nos plus cordiales salutations à l'occasion de la Semaine de l'aérospatiale du Manitoba.

L'industrie aérospatiale occupe une place importante dans l'économie du Canada. Dans l'Ouest canadien, ce secteur soutient près de 27 000 emplois et génère des revenus annuels de plus de 4,5 milliards de dollars.

Je suis heureuse d'avoir l'occasion de vous parler des mesures que nous avons prises, dans le cadre du Plan d'action économique 2015, pour garantir la croissance continue de l'industrie aérospatiale, la renforcer et accroître sa compétitivité. Ces mesures sont les suivantes:

- prolonger la déduction pour amortissement accéléré pour les investissements dans les machines et l'équipement de fabrication et de transformation;
- soutenir la mise en œuvre de la Stratégie d'approvisionnement en matière de défense afin de créer des emplois de haute qualité, stimuler l'innovation et favoriser les exportations;
- appuyer la recherche et le développement technologiques de pointe dans le secteur canadien des communications par satellite;
- encourager les associations industrielles et de gens d'affaires à travailler avec les établissements d'enseignement postsecondaires pour mieux moduler les programmes éducatifs en tenant compte des besoins des employeurs;
- investir dans le projet « Usine du futur » du Conseil national de recherches du Canada, qui améliorera la position concurrentielle des entreprises des secteurs de l'aérospatiale et de l'automobile en leur donnant accès à des projets de recherche concertée et à des procédés de fabrication avancés à Winnipeg, à London et à Montréal;
- organiser des possibilités de réseautage et de collaboration, tel le récent Forum sur l'innovation dans l'Ouest, cette conférence centrée sur l'industrie qui vise à rapprocher les secteurs de l'aérospatiale, de la marine, de la défense et de la sécurité du Canada des possibilités d'investissement, de partenariat et d'affaires axées sur l'innovation.

Je suis fière du soutien apporté par notre gouvernement à ce secteur dynamique et en croissance. Le Manitoba abrite la plus importante industrie aérospatiale de l'Ouest canadien, et ses entreprises tournées vers l'exportation jouent un rôle clé dans les chaînes d'approvisionnement mondiales de l'aérospatiale.

Je me réjouis de poursuivre notre collaboration en vue de renforcer encore davantage le secteur de l'aérospatiale du Manitoba et de l'ensemble de l'Ouest. Ensemble, nous montrons au Canada et au reste du monde que *l'Ouest canadien est en affaires*.

**L'honorable Michelle Rempel
Mai 2015**



**Kevin Chief, Manitoba
Minister of Jobs and
the Economy**

MANITOBA AEROSPACE WEEK 2015

Manitobans working in aerospace are helping make our province a world leader in the industry. Our aerospace companies are continuously introducing new and innovative approaches that create some of the most advanced technology anywhere.

It's an exciting field that is giving many Manitobans from all backgrounds an opportunity to build a career at home and earn a living for their families.

Our aerospace businesses want to give back by making sure more Manitobans have the best resources, skills, and training to be part of this growing segment of our economy.

The Government of Manitoba is incredibly proud to stand alongside Red River College, the University of Manitoba, the Centre for Aboriginal Human Resource

Development and our aerospace business leaders to make that happen.

I want more Manitobans to know about the opportunities available to them in this incredible Manitoba success story. That's why it gives me great pleasure to proclaim Aerospace Week 2015 on behalf of the Government of Manitoba. I am so pleased to be able to publicly acknowledge the outstanding performance of the thousands of talented men and women whose work every day ensures that the Manitoba aerospace industry continues to grow and support Manitoba families and businesses.

**Kevin Chief, Manitoba Minister of
Jobs and the Economy**

LA SEMAINE DE L'AÉROSPATIALE 2015

Les Manitobains et Manitobaines qui travaillent dans le secteur aérospatial aident à faire de notre province un leader mondial dans l'industrie. Nos entreprises aérospatiales continuent de mettre au point de nouvelles approches technologiques parmi les plus avancées et les plus novatrices au monde.

C'est un domaine passionnant qui offre à un grand nombre de Manitobains et de Manitobaines de tous les milieux l'occasion de bâtir une carrière dans la province et de subvenir aux besoins de leur famille.

Nos entreprises aérospatiales veulent que de plus en plus de Manitobains et de Manitobaines possèdent les meilleures ressources et compétences et aient accès aux meilleures possibilités de formation pour faire partie intégrante de ce secteur florissant de notre économie.

Le gouvernement du Manitoba est extrêmement

fier de travailler de concert avec le Collège Red River, l'Université du Manitoba, le Centre for Aboriginal Human Resource Development et les chefs de file de l'industrie aérospatiale pour réaliser cet objectif.

Je désire que de plus en plus de Manitobaines et de Manitobains soient informés des possibilités offertes dans cette industrie couronnée de succès. C'est pourquoi j'ai le grand plaisir de proclamer, au nom du gouvernement du Manitoba, la Semaine de l'aérospatiale 2015. Je suis très heureux de reconnaître publiquement l'incroyable travail des milliers d'hommes et de femmes talentueux grâce auxquels l'industrie aérospatiale continue de grandir et de soutenir les familles et les entreprises du Manitoba.

**Ministre de l'Emploi et de l'Économie
Kevin Chief**





Magellan Aerospace, Winnipeg (Magellan) is celebrating 85 years of business in the Manitoba community this year, employing generations of Manitobans in the aerospace industry.

Magellan began as MacDonald Brothers Aircraft Limited, in March of 1930, building and repairing the floats on bush planes. From this pioneering beginning, Magellan has grown into one of Manitoba's local, world-class companies. The aerospace industry in Manitoba is the largest in Western Canada, generating \$1.6 billion in revenues and directly employing 5,300 people. Magellan Aerospace directly employs about 700 of those people.

Magellan believes strongly in continuing education and personal development for its workforce. This was a key reason it was chosen as one of Manitoba's Top 25 Employers in 2015, for the second year in a row. The company delivers in-house training in a variety of areas including continuous improvement, quality process, and technical training.

Machine-specific training and leadership training are also scheduled and delivered by industry experts.

"The training for our new EcoSpeed high speed milling machine took place in Germany, as that is where the equipment is manufactured and provided the optimum training environment," says Don Boitson, Vice President and General Manager, Magellan Aerospace.

"Magellan Aerospace is a great place to work if you are interested in upgrading your skills and education. We firmly believe that education should be a lifelong endeavour."

The company pays 100% of the tuition fees for courses that are directly job-related, and up to 50% for courses that might not be specific to an employee's specific job function.

Magellan also supports dozens of charities and organizations throughout the province every year, some of which include Habitat for Humanity, the Manitoba Museum, the Royal Aviation Museum of Western Canada, CancerCare Manitoba, United Way, and the Winnipeg Chamber of Commerce. In particular, Magellan believes strongly in the importance of youth and learning, and recognizes the importance of education; especially STEM (Science, Technology, Engineering and Math) education, which is the groundwork for the next generation of scientists, technologists and engineers.

Magellan Aerospace is proud to be an international partner to help increase the

Engineers working in the new Advanced Satellite Integration Facility (ASIF) at Magellan Aerospace. Below: Bob Krahn and Emily Wood take a break in front of the house they helped to build with Habitat for Humanity. Photos courtesy of Magellan Aerospace, Winnipeg

opportunity for more Canadian students to participate in the Student Spaceflight Experiments Program (SSEP). The SSEP is a U.S.-based immersive program that was launched in June 2010 by the National Center for Earth and Space Science Education (NCESSE) that gives 300+ students across participating communities the ability to design and propose real microgravity experiments to fly in low Earth orbit on the International Space Station (ISS). This unique program engages students and teachers in every facet of real science and aims to change the way students perceive science and their ability to do it.

Magellan bridges funding shortfalls for communities that may otherwise be unable to participate. Magellan sees this funding as an investment in the youth of Canada, and in nurturing an interest in science for the next generation.

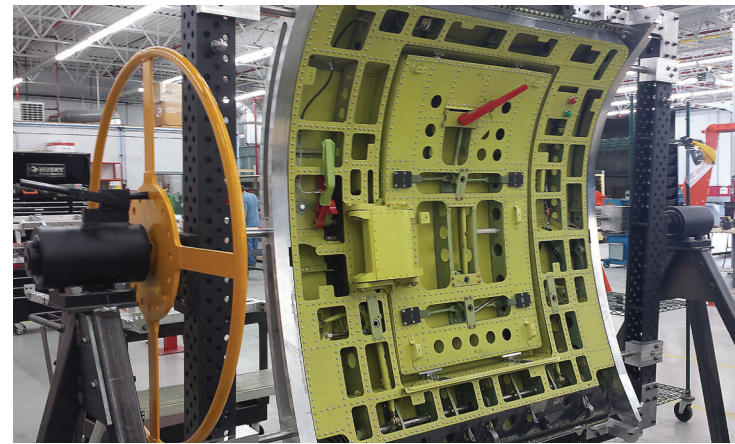
In only two short years since SSEP has become international, it has really taken hold in Canada. There have been two Canadian programs — Stonewall, Manitoba on Mission 3 to the ISS and Kamloops/Thompson School District 73, British Columbia on Mission 6 to the ISS. Magellan participated as a funding partner for both of the Canadian programs, and has experienced firsthand the once-in-a-lifetime learning opportunity that this program delivers to students. There are three Canadian "communities" in Calgary and the Greater Toronto Area now committed to the next flight opportunity — Mission 8 to ISS. Magellan Aerospace is very pleased to be able to contribute in a meaningful way to bringing the SSEP experience to Canadian youth.

Another way that Magellan Aerospace supports education is in the classrooms — specifically, there are two "classrooms" right in the Winnipeg plant. The Centre for Non-Destructive Inspection Technologies (CNDI) is a collaboration between industry, government, and Red River College (RRC), and gives RRC students access to learn on state-of-the-art equipment. The Laser Non-Destructive Inspection equipment located here will be utilized for the purposes of education, training, research and industrial use. Having the Red River College industrial campus located at Magellan allows students practical, hands-on access to the most sophisticated Laser NDI equipment available today.

The second classroom at Magellan Aerospace is a partnership between Magellan Aerospace and the University of Manitoba. This partnership is the foundation of the Advanced Satellite Integration Facility (ASIF), which will establish a unique hub for industry and academia to come together to further space technology development and demonstration. Magellan's focus in the ASIF partnership goes well beyond contributing to the bricks and mortar of this world-class facility. Magellan's \$1.5 million investment in facilities, equipment, research and education support over the next five years reflects Magellan's commitment to both community and youth education.

The ASIF project will result in the creation of a Chair in Space at the U of M and a multi-year program of funding for space applications research at the U of M. Magellan will support space hardware development and testing by students, and provide advice, and a facility, for student teams competing in satellite competitions.

Magellan Aerospace has been a part of the Winnipeg community for 85 years, and with the community involvement and investment in both human and state-of-the-art technologies, Magellan is looking forward to a successful future. ■



STILL GROWING STRONG

B/E AEROSPACE DELIVERS HIGHLY CUSTOMIZED SOLUTIONS

Formerly EMTEQ Canada, B/E Aerospace Lighting & Integrated Systems is proud to now be the Canadian footprint for B/E Aerospace. With a renewed focus on growth, B/E Aerospace Lighting & Integrated Systems in Canada is working to develop and refine products that complement the B/E line, including interior monuments, custom aircraft doors, storage solutions, and other interior and exterior structures.

"Our engineers enjoy the diversity of our work when it comes to the breadth and depth of our products. They have always excelled in creating complex, concept-to-completion modifications where we help with highly engineered, highly customized solutions. This has led us to develop special mission solutions for Pilatus PC12, Bombardier 415, Bombardier DHC-8 and CRJ platforms amongst others," says Udaya Silva, Vice-President and General Manager, Canada.

B/E Aerospace Lighting & Integrated Systems has experienced much growth since its beginnings as Aero Consulting Services (ACS) founded by Lane Helms. Focused on turn-key STC'd solutions that solved maintenance issues, the business soon acquired Northern Aero Industries (NAI) and grew its offering to include kit content in an effort to offer an end to end solution. In 2008, ACS-NAI was acquired by EMTEQ and soon after became EMTEQ Canada where there was a renewed focus on delivering turn-key products that focused on engineering, manufacturing and certification.

B/E Aerospace designs, develops, and manufactures a broad range of products, including aircraft cabin seating, lighting systems, oxygen systems, food and beverage preparation and storage equipment, galley systems, water and waste systems, and advanced lavatory systems. The company also provides cabin interior reconfiguration,

program management, and certification services. B/E Aerospace is one of the world's leading manufacturers of aircraft cabin interior products. As many of our products fall within this realm, and complement B/E Aerospace's existing product mix, our growth in becoming a part of B/E Aerospace was only natural. Now, as B/E Aerospace Lighting & Integrated Systems, a much greater emphasis is being placed on creating, developing and refining products that optimize existing designs, create space, or enhance aircraft capabilities.

B/E Aerospace Lighting & Integrated Systems in Canada works with a broad spectrum of the aerospace industry from government, medevac, and many of North America's regional air transport operators to modification centres and line fit airframe.

"We have a strong offering of turn-key, certified solutions for the retrofit market, and are actively developing solutions for OEM airframes that will allow them to provide their customers more options for an aircraft that fits their end user needs such as air-operable doors and other mission/purpose specific features," says David Vanderzwaag, Business Development Manager. ■

STANDARD AERO INVESTS *in the* FUTURE

StandardAero is one of the world's largest independent providers of services including engine and airframe maintenance, repair and overhaul, engine component repair, engineering services, interior completions and paint applications. StandardAero serves a diverse array of customers in business and general aviation, airline, military, helicopter, components, energy and VIP interior completions markets. As a Dubai Aerospace Enterprise (DAE) company, StandardAero provides a global service network of 13 primary facilities in the U.S., Canada, Europe, Singapore and Australia, along with an additional 50 sales and field service locations.

StandardAero's Winnipeg operations support commercial and military customers from around the world. The company operates from 12 buildings totalling 665,000 square feet of space near the airport. StandardAero Winnipeg is a Transport Canada Approved Maintenance Organization providing services for the overhaul, repair, modification and test of aeronautical products. The Winnipeg site also holds certificates from a number of additional national airworthiness authorities from countries that require it when we do work for customers based in those countries.

In 2014, the company launched an expansion of its extensive repair capabilities to service components from a wider range of engine models. In support of this, StandardAero is making multi-million dollar investments at its component repair sites, and adding significant capabilities to its aircraft parts plating line. These operational upgrades will enhance customer services in the company's already world-class facility. Just as it has in recent decades, StandardAero is investing to create more services for the thriving aerospace industry.

As a result of these 2015 investments, StandardAero will provide additional stripping and plating processes for chrome, electroless nickel, sulfamate nickel (hard & soft), cadmium (bright & non-bright), silver, copper and tin plating for aerospace parts and



components. These plating capabilities are essential to repair aircraft parts and the company will use the facilities for its own customers, as well as others in the industry.

In addition, the company is increasing the square footage of its Winnipeg plating shop, adding a significant number of tanks, optimizing product flow, using monitoring systems for improved process control and installing a dedicated R&D line. These improvements are designed to reduce the time it takes to develop new repairs and plating processes for customers. Moreover, the expanded and redesigned facility will exceed all necessary environmental requirements and provide an extremely safe working environment.

StandardAero customers demand quality, turn-time, and price. With these continued investments and technology improvements, the company is certain to deliver. The expansion and improvements in the facility are expected to be fully completed by September of this year. The Winnipeg shop will support other StandardAero and customer MRO facilities around the world.

In addition to investing in facilities, StandardAero recently acquired DutchAero Services (DAS) from GE/Avio and will take over its existing operations to establish a European Support Center providing military MRO services for Pratt & Whitney F100 and future F135 engines. DAS will be branded as StandardAero Defence Services Europe and align with the company's portfolio of defence services located in San Antonio, Texas and Winnipeg, Canada.

DAS, located at Woensdrecht Air Base in the Netherlands, will become StandardAero's second

MRO operation in the country and will serve as a partner in a Public Private Partnership (PPP) for the maintenance needs of the Royal Netherlands Air Force (RNLAf) as well as other military operators worldwide.

This acquisition provides the opportunity to serve the large existing market of F-16 aircraft, powered by F100 engines, and also positions the company as a key partner for leading a European depot supporting the F-35 Lightning aircraft engine maintenance. StandardAero already overhauls military transport engines with the T56 and AE2100 and now will support the most prolific fighter engines — with the F100 and anticipated support of the F135. The company also intends to serve on additional military platforms as it grows in Europe.

In 2011, StandardAero celebrated its 100th year anniversary. The Company has managed to grow and diversify over the years thanks to the dedicated workforce who exemplify an operational excellence mindset, seeking to provide our diverse customer base with engineered solutions and attentive customer service. Each year, employees initiate hundreds of improvement projects that improve processes resulting in better quality, faster turn-around time, lower costs or a safer work environment.

While StandardAero clearly serves a global marketplace, the employees demonstrate strong local community-minded involvement in a wide-range of activities. Through service opportunities with amateur sports, local charities and not-for-profit boards, employees transfer many of the same skills they've honed serving a highly demanding customer base, to help build a prosperous and vibrant community right here in Manitoba. ■

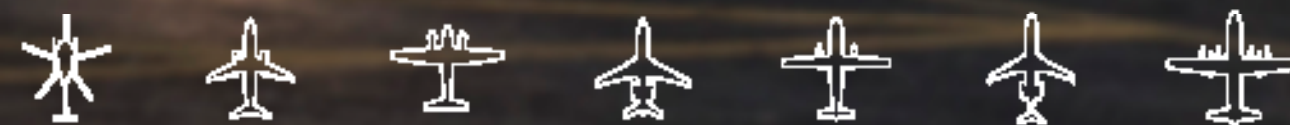


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AEROSPACE & AVIATION IN MANITOBA (AAiM) DAY

The first Friday after the Victoria Day long weekend in May has been designated as the annual Aerospace & Aviation in Manitoba (AAiM) Day. The program brings together the aviation and aerospace communities to provide a hands-on learning experience for Grade 6 students.

The one-day event is held at Red River College - Stevenson Campus, and is designed to provide engaging activities that relate to the aviation and aerospace industries and correlate with the Manitoba Grade 6 science curriculum units on flight and space science. Since its inception in 2006, the program has grown annually to include up to 700 students from both urban and rural schools, as well as private and home-school organizations.

The ninth annual AAiM Day was held on May 22, 2015. ■

AAiM DAY HOSTS AND ORGANIZERS:

- Boeing Winnipeg
- Magellan Aerospace
- StandardAero
- Manitoba Aerospace Human Resources Council (MAHRC)
- Career Trek
- Red River College - Stevenson Campus
- Manitoba Rocketry Group
- Tec Voc High School - Aerospace Manufacturing and Maintenance Orientation Program (AMMOP)
- Women in Science and Engineering (WISE), University of Manitoba
- 1 Canadian Air Division Headquarters
- 17 Wing
- Canadian Forces School of Aerospace Studies (CFSAS)
- Air Cadet League of Canada (MB) Inc.

THE PROGRAM:

AAiM Day is run in two sections, with approximately 350 students participating in each. The sessions are made up of six 20-minute learning modules. The program runs like a well-oiled machine, with each of the industry organizations taking a lead role on one or more activities.

More than 150 volunteers from industry and the affiliated educational institutions/organizations are involved as group leaders, instructors, assistants and in other capacities. Industry volunteers enjoy the experience and most sign up for the next year.

Feedback from students indicates that learning about flight in school can be confusing, but experiencing the activities through a hands-on approach makes the science much easier for them to understand.

The educators involved in AAiM Day have commented that the entire event is a positive experience, and one that complements their teaching of flight and space science as part of the Grade 6 science curriculum. Teachers eagerly express interest in having their future classes attend year after year.

PROGRAM ACTIVITIES:

- Aircraft Inspection: students learn to identify parts of aircraft by taking on the roles of aircraft maintenance engineers on inspection
- Characteristics of Flight: students learn about the characteristics of flight and then design and fly a paper glider
- Composite Materials: students learn about the latest composite materials used in aircraft manufacturing and create a composite part
- Flight Theatre: students learn about various aviation and aerospace careers by taking an imaginary flight
- Rockets: students learn about rockets and design and fly a paper rocket
- Space Crater Fun: students learn about craters and space science by creating a variety of simulated craters



Above: Volunteers from the Air Cadet League of Canada (Manitoba) Inc. participate in AAiM Day activities. Opposite page: Grade 6 students learn about safety practices around aircraft and inspect helicopters and other aircraft at Red River College - Stevenson Campus.

Photos courtesy of the Manitoba Aerospace Association

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2015
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pewert@larters.com

September 10, 2015

INVESTING IN THE NEXT GENERATION

THE MANITOBA AEROSPACE STUDENT AWARDS PROGRAM

Manitoba aerospace companies are committed to helping our people and communities achieve success. Many of our member companies are dedicated to supporting causes in their local areas. We are proud to support many community organizations.

Events like the All-Stars Awards and the Aerospace Golf Tournament support endowment funds that reward both secondary and post-secondary students for their hard work.

The Manitoba Aerospace Student Awards Program provides financial awards to students to help them access rewarding, enduring careers in the aerospace industry.

Awards are given to six students each year — three to high school students at Tec Voc, and three to post-secondary students at Red River College, University of Manitoba, and Neeginan College of Applied Technology. The awards are offered based on a list of core values that industry representatives have determined to be important characteristics for workers in the aerospace industry:

- TEAM WORK • RELIABILITY
- WORK ETHIC • INTEGRITY
- INNOVATION

Each year, \$3,000 was used from the fundraising events to support six \$500 cash awards. The remainder of the funds were invested in endowment funds at the Winnipeg Foundation, Red River College and the University of Manitoba.

Starting in 2007 with the All-Stars Awards Gala and expanded in 2011 with an annual golf tournament, these community events have helped generate more than \$137,000 for student awards and the endowment funds.

With the generosity of our members we have now reached the point where the current awards can be self-sustaining and we can begin to look at growing the number and value of the awards. Beginning in 2015, all six awards will be increased to \$900 annually.

So just remember when you are working hard and having fun at the Manitoba Aerospace Golf Tournament or the All-Stars Awards Gala, you are helping build our workforce for tomorrow. ■



The 13th annual Manitoba Aerospace All-Stars Awards honourees. Top: The FastAir and B/E Aerospace group. Bottom from left: Kim Olson (StandardAero), Mitch Arbez (Magellan) and Ian Walkty (Magellan).

SALUTING THE ALL STARS

The recipients of the 13th annual Manitoba Aerospace All-Stars Awards of Excellence were celebrated for excellence in leadership; process improvement; growth, innovation, and collaboration — and for helping build the aerospace community at large.

A Builder Award was presented to Kim Olson, Senior Vice President Engineering & Quality at StandardAero, for his significant contributions to the Manitoba aerospace industry in several key roles. Kim serves as Vice Chair of Canada's newly launched national research network, the Consortium for Aerospace Research and Innovation in Canada (CARIC); heads the Manitoba Aerospace Association as President, has helped establish strong partnerships with industry and Manitoba's post-secondary educational institutions, serves as a Director on the board of the Aerospace Industries Association of Canada (AIAC) and led the Manitoba Aerospace Technology Road Map steering committee to foster strong industry participation in the evaluation of future aerospace technology interests and needs in Manitoba.

Ian Walkty received a Leadership Award for his lifetime achievement in leading the space program at Magellan, and for helping to convince the Canada Space Agency that small satellites could and should be built in Canada. From working on payload projects for Black Brant rockets and the International Space Station to serving as Program and Project Manager for SCISAT and CASSIOPE satellites respectively, he was instrumental in developing Magellan's

capabilities in space. Ian is a crucial part of the heritage that has built up over the years as he reached for more and more ambitious space projects, for both Magellan Aerospace, and for Canada.

Mitch Arbez, from Magellan Aerospace, was selected for Excellence in Leadership and Process Improvement for providing mentorship to Standard Manufacturers Services Limited as part of the Competitive Edge Supplier Development (CESD) program. The CESD is Manitoba Aerospace's "Learner to World Class" business development program designed to help companies become suppliers of choice to the global marketplace. As mentor, Mitch guided them through transitions and helped them manage the changes needed to improve against the benchmark standards. He helped them challenge the status quo and successfully achieve their process improvement goals.

Fast Air and B/E Aerospace teamed up to create a new and innovative solution for global operators of the Beechcraft King Air, an aircraft platform widely used with a cargo pod in multi mission roles to serve remote locations. Combining Fast Air's Garmin G1000 "Glass Cockpit" avionics retrofit capabilities with B/E Aerospace's certification and flight test experience, they completed a major flight test and certification program in only four months. The G1000 avionics suite offers operators the best-value proposition for extending the life of their aging aircraft, providing pod-equipped King Air operators with an opportunity that did not previously exist. ■

MANITOBA  AEROSPACE

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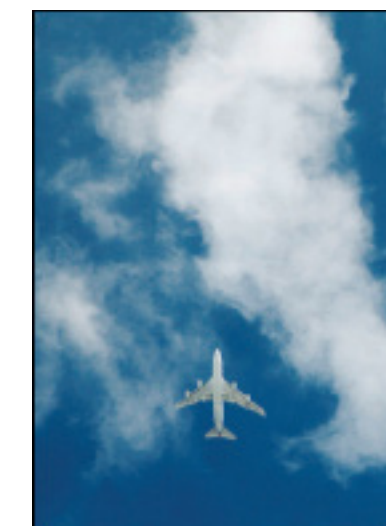
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Nathan Atkinson plans to work at StandardAero until retirement.

Photo by Darcy Finley

SETTING A COURSE FOR SUCCESS

NEEGINAN COLLEGE HELPS GRAD LAND DREAM JOB

In 2012, Nathan Atkinson graduated from Neeginan College of Applied Technology's Gas Turbine Repair & Overhaul (GTR&O) Technician Program, and immediately launched into his dream career by securing employment with StandardAero.

Nathan's previous work experience included a long stint as a CNC operator, but he always had an interest in working with engines and aircraft. After his wife recommended he look into programs being offered by Neeginan College of Applied Technology, Nathan finally fulfilled his childhood dream of learning the intricacies of jet engines by registering in the GTR&O Technician Program.

Not only did he receive training on aerodynamics, standard practices and safety, but like all trainees at Neeginan College, Nathan also gained meaningful experience in the field by completing a practicum with industry.

Nathan really enjoyed the practical approach offered at Neeginan College, specifically the hands-on experiences.

"We had the chance to make our own projects as part of the training. I even made a robot car with sound activation," Nathan said.

He found the instruction very thorough, noting that his instructor, Drew Tapley, "gave me a solid understanding of the material, including proper technique and procedure."

"I enjoyed my time at Neeginan College," Nathan added. "The learning environment is very comfortable for Indigenous students."

Neeginan College doesn't just provide the skills and training necessary to land Aboriginal people in the high-demand aerospace industry; it also helps students find employment once they've completed their training.

At StandardAero, Nathan has held a position in the Machine Reworks department for over two years.

"I like the work because I do different things everyday. It's challenging and interesting, and doing a good job to the exact specification gives me a sense of satisfaction."

Nathan sees himself staying with StandardAero until retirement.

"StandardAero goes the extra mile with team-building," he added.

"The people I work with are awesome." ■

CLEARED FOR TAKEOFF

MANITOBA AEROSPACE ENSURES ACCESS TO CAREER PATHWAYS

Manitoba Aerospace Human Resources Council (MAHRC) is an industry driven, government funded, not-for-profit sector council aimed at developing a world-class workforce to meet industry's needs through partnerships with Manitoba educational institutions, the aerospace industry and key stakeholders. We believe that the success of the aerospace industry, or any industry for that matter, relies in great part on the skills, knowledge and energy of its workforce.

Since its inception in 1991, MAHRC has been active in the development of both the current and future workforce for the aerospace industry. It has worked with educational institutions to ensure there are career pathways into the industry, as well as being active in communicating career opportunities to youth, parents and teachers. More recently, MAHRC has incorporated a supplier development program to assist small to medium sized enterprises (SMEs) establish business processes to make them more effective as organizations.

Utilizing government funds, MAHRC financially supports the aerospace industry in Manitoba by cost sharing training initiatives that ensure workers have access to knowledge and skills that will keep the industry competitive. These strategic training initiatives can be for individual companies, or for the entire industry.

MAHRC supports the recruiting of new workers into the aerospace industry in Manitoba by partnering with educational institutions, such as Red River College – Stevenson Campus and Neeginan College of Applied Technology. For example, MAHRC partnered with the Centre for Aboriginal Human Resources Development (CAHRD) to develop the Aerospace programs at Neeginan College, which provides training for Aboriginal students as gas turbine repair technicians, welders and/or machinists.

MAHRC partners with educators to support the continued improvement of education systems and programs as pathways to entry level positions in the aerospace industry. Some examples of our involvement include:

- University of Manitoba – Faculty of Engineering and the Engineer Access Program
- University of Winnipeg – Faculty of Business and Economics
- Red River College – Stevenson Campus for Aircraft Maintenance Engineers (AME) and Aerospace Manufacturing
- Neeginan College of Applied Technology for Gas Turbine Repair & Overhaul, Machining and Welding
- Tec Voc High School – Aviation Maintenance and Manufacturing Orientation Program (AMMOP) and the Aerospace Technology program

MAHRC works in collaboration with our partners to showcase careers in the local aerospace industry. Some examples of our activities include:

- Career Trek's Wonder of Work (Phase I) for Grades 5/6, Get Ready for Work (Phase II) for Grade 9, and the Children Rising program. Career

Trek is an organization that helps young people discover the possibilities offered by post-secondary education.

- Aerospace & Aviation in Manitoba (AAiM) Day. (See full story on Page 12)
- Women in Science and Engineering (WISE) Kid-Netic Energy is an outreach organization based at the University of Manitoba. It was established in 1990 and has enthralled, educated and motivated youth, including young women, to enter exciting careers in engineering and science. WISE Kid-Netic Energy programs reach more than 20,000 students each year in Manitoba, delivering workshops in dozens of Manitoba locations and hosting camps in a dozen sites annually, including five First Nations communities.
- Manitoba Space Adventure Camp is a one-week event, consisting of hands-on workshops, lab demonstrations and activities on engineering and science related to space. The camp makes "space" accessible to all Manitoba students between Grades 9 to 11.
- The Manitoba Aerospace Endowment Fund provides financial awards to students to help them access rewarding, enduring careers in the aerospace industry.

Initiated in 2010, the Competitive Edge Supplier Development Program (CESD) provides a framework to develop an organization's capabilities. Using the five-level "Learner to World Class" model, CESD assessors will benchmark a company against the best in the world in 11 key business areas. At the end of the benchmark, the company will know what the journey to world class will look like.

A company that enrolls in the CESD Program benefits from a robust and systematic management system to develop and improve that company as a supplier that includes:

- Training and coaching support
- Frequent process assessments to keep the journey on track

In the past 24 years, MAHRC has worked with educational and community partners to develop pathways to entry level positions in the local aerospace industry. We have developed partnerships at the secondary and post-secondary education level which ensure that Manitobans have the opportunity to access rewarding and exciting careers without having to leave the province. Our ultimate goal is to attract the best and the brightest. ■

Are you interested in a career with Aerospace?

You are closer than you think!

Register for an information session held every Friday at 6:30 a.m. at Neeginan College of Applied Technology, located at 2000-101 Higgins Avenue, W1M 1G1. Phone call at (204) 944-7110 or book your spot today!

Manitoba Aerospace Human Resources Council, in partnership with CAHRD, is seeking Aboriginal students to complete the following accredited apprenticeship and/or industry programs: Composite Structural Control (CSC) Apprenticeship, Aircraft Assembly Apprenticeship, and Aviation (AA) Apprenticeship.

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acs-composites.com

AERO RECIP

Founded in 1998, Aero Recip is the largest piston engine overhaul shop in Canada. Its experienced technicians and industry specialists consistently deliver quality, service and respect.

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aerorecip.com

ARGUS INDUSTRIES

Argus' Aerospace Division warehouses a variety of specialty high-grade materials that allow it to respond instantly to meet customer needs, whether it is an AOG or just a scheduled molded or fabricated product. Argus has been a Tier 1 supplier in aerospace for over 15 years. A wealth of long-term employees, strong tribal culture, and LEAN principles enable the company to provide solid product knowledge and service to ensure the highest quality of manufactured seals, gaskets and elastomeric products.

argusindustries.ca

B/E AEROSPACE LIGHTING AND ENGINEERED SOLUTIONS

B/E Aerospace Lighting & Engineered Solutions creates products that optimize existing designs, create space, and enhance aircraft capabilities by deploying the company's responsive and integrated engineering, manufacturing and certification expertise. Two offices in Canada focus on design and manufacturing for aircraft conversions and modifications. From aircraft doors & mission equipment to storage solutions, the company understands regional, VIP, utility and special mission aircraft.

beaerospace.com

BOEING WINNIPEG

Boeing Canada Winnipeg is the largest Canadian Boeing site and the largest aerospace composite manufacturer in the country. The site produces nearly 1,000 end item composite parts and assemblies for Boeing Commercial Airplanes, specifically for the 737, 747, 767, 777 and 787 airplane models.

boeing.ca

CADORATH AEROSPACE

Cadorath is a multi-faceted international company with several divisions, products and services. With over 55 years of experience, Cadorath provides products and services to the aviation, industrial, agricultural and consumer goods sectors and has remained committed to quality, reliability and customer satisfaction.

cadorath.com

CANADIAN PROPELLER

Established in 1991, Canadian Propeller specializes in aircraft propeller & governor maintenance and servicing of all types of aircraft, from Cessna 150's to

Beech 1900's and Dash 8's. The company also provides propeller fleet consulting, management and valuations. Specific industry propeller training is also available to suit clients' particular needs.

canadianpropeller.com

CAPITOL STEEL

Capitol Steel is a structural steel fabricator and installer for buildings, bridges and other civil infrastructure. Located in Winnipeg, Capitol Steel serves a diverse Canadian and U.S. customer base. It is a modern company with a good old-fashioned work ethic, and a strong vision to be the most respected company in the industry. Renowned for excellence, leadership and unsurpassed value.

capitolsteel.ca

CARLSON ENGINEERED COMPOSITES INC.

Carlson Engineered Composites Inc. offers cost effective alternatives to aluminum and steel. Since 1980, Carlson has been supplying quality fiberglass components to original equipment manufacturers. The company offers a high level of service and expertise in both its workforce and management teams. Just-in-time delivery, automotive paint finishes, prototyping of new parts, and tooling are standard services.

thecarlsongroup.ca

CORMER AEROSPACE

From modest beginnings in 1988, Cormer Aerospace has grown to become an exceptional provider of responsive, customer focused production, assembly, and post-production processes. The company is built on quality, close customer relationships, and other unique culture and values. With talented people using state-of-the-art

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cormeraerospace.com

DYNAMIC MACHINE CORPORATION

Dynamic Machine Corporation of Winnipeg is a modern industrial manufacturing, repair, and supply company with a fully-equipped machine shop capable of dealing with projects of any size. Since 1970 Dynamic Machine has been serving national and international clients both by building and repairing all types of custom and general production machinery and by selling, servicing, and repairing all brands of hydraulic and pneumatic equipment.

dynamicmachinecorp.com

ENDURON

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enduron.net

FASTAIR EXECUTIVE AVIATION SERVICES

A premier provider of industry-leading aviation services, based at the Richardson Winnipeg International Airport, Fast Air Executive Aviation offers executive turboprop and jet charter, air ambulance, aircraft management, and helicopter services out of its private business class terminal.

Fast Air is a certified AMO, authorized for maintenance on a wide range of aircraft, including Bell 206 series helicopters. The company holds instrument, avionics, structures, and component ratings and offers a variety of avionics capabilities in its Transport Canada approved avionics shop. Fast Air is an authorized dealer for Garmin Flight Deck and Avionics products.

flyfastair.com

FLIGHTCRAFT MAINTENANCE SERVICES

Founded in December 1996, Flightcraft Maintenance Services has shown steady growth in the aircraft maintenance and overhaul market. Its main objective is to provide airline operators with quality service, while offering a reduced overall cost. The company's approved maintenance organization has been developed to provide airline operators with a full complement of support capabilities.

flightcraftmaintenance.com

GE AVIATION CANADA

GE Aviation Canada operates the Research Testing and Development Centre in Winnipeg and a manufacturing plant in Bromont, Quebec. GE Aviation engines power over 80% of the RCAF aircraft and 62% of global commercial airliners and executive jets. GE also supports its products in country by working with well-established Canadian-based repair and overhaul entities, including StandardAero, Magellan and Vector Aerospace. The company is recognized for having delivered high quality industrial and regional benefits as well as having significantly exceeded its Canadian contractual obligations.

geaviation.com

IDERS

Iders is an electronic design company, providing an unprecedented level of customer service and product time to market to a multitude of industries and technologies in over 80 countries worldwide.

iders.ca

KEEWATIN AIR

Keewatin Air offers a variety of ground support services, ranging from aircraft maintenance to aircraft hangarage. The company's northern bases offer support for visiting aviators and often provide a safe haven in inclement weather. Keewatin Air offers: Transport Canada Approved AMO with experience on Beechcraft King Air and 1900 aircraft, Pilatus PC 12 aircraft and Learjet aircraft; hangar facilities, and de-icing, marshalling, and GPU starts in Churchill, Rankin Inlet, and Iqaluit.

keewatinair.com

KF AEROSPACE DEFENCE PROGRAMS

The KF Aerospace Defence Programs team was assembled and led by Kelowna Flightcraft and includes industry leaders in integrated flying training solutions and advanced simulation technologies. Formerly known as Allied Wings, KF Aerospace Defence Programs includes Kelowna Flightcraft Ltd., Canadian Helicopters Ltd., Atlantis Systems Intl., and Canadian Base Operators. KF Aerospace Defence Programs is located in Southport, and is built for servicing the Canadian Forces primary flight training program.

kfaero.ca

MAGELLAN AEROSPACE

Magellan Aerospace, Winnipeg has 85 years of knowledge and experience in the aerospace industry. The main facility is located in Winnipeg, MB, and there are also satellite locations in Rockwood, MB and Ottawa, ON. The company employs about 700 people. Magellan manufactures complex aeroengine components and advanced aerostructures fabrications, as well as proprietary products; including small satellite buses, propulsion products, and the Wire Strike Protection System (WSPSTTM) for civil and military helicopters.

magellan.aero

MICROPILOT

MicroPilot is the leading manufacturer of miniature autopilots for unmanned aerial vehicles (UAV) and micro aerial vehicles (MAV). Weighing 28 grams, the MP2028 is the world's smallest full functional autopilot. Capabilities include airspeed hold, altitude hold, turn coordination, GPS navigation, plus autonomous operation from launch to recovery. With a global roster of more than 200 clients in over 44 countries, MicroPilot sells autopilots and autopilot accessories worldwide to academic, military, and private research institutions, as well as to UAV end users and manufacturers.

micropilot.com

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Precision ADM identifies, develops, and manufactures high value application opportunities in additive manufacturing. Whether on our own, or working with clients, partners, and suppliers, we access the latest and highest quality production additive

and subtractive equipment, processes, and expertise. With a strong focus on metal and polymer parts for medical and aerospace applications, we endeavour to find the part design and manufacturing solution that best meets the material, quantity, quality, and cost characteristics required for that specific application.

precisionadm.com

STANDARDAERO

Founded in 1911, StandardAero has become one of the aerospace industry's largest independent maintenance, repair and overhaul (MRO) providers in the world. StandardAero's success is the outgrowth of the synergistic merger of businesses with complementary specialties that have exponentially increased their capabilities and generated unprecedented customer commitment and value.

standardaero.com

STANDARD MANUFACTURERS SERVICES LIMITED

Established in 1982, Standard Manufacturers offers its customers a single source solution for all their manufacturing needs. Standard Manufacturers specializes in engineering, design for manufacturability, rapid prototyping & tool and die, aluminum permanent and semi-permanent mould foundry, heat treating services, CNC machining, fabrication, and product supply.

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