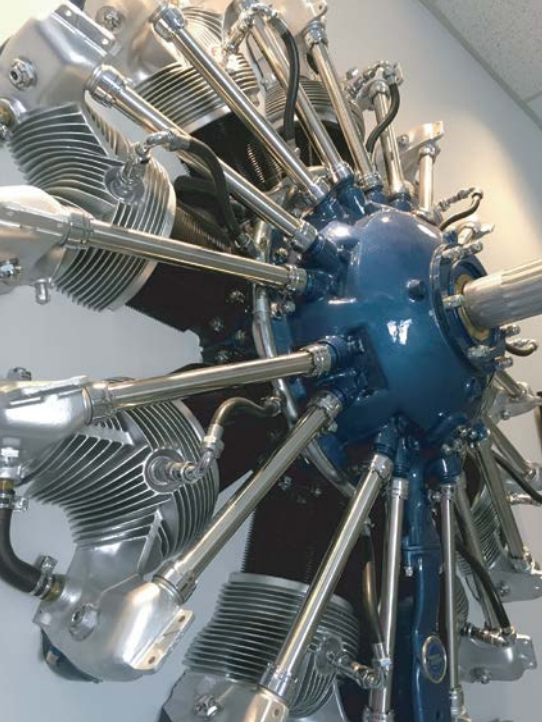


Where Vision Takes Flight



MANITOBA  AEROSPACE

Annual Report 2019





YOU'RE  INVITED!

Join us for the

MANITOBA AEROSPACE ALL STARS AWARDS DINNER

Thursday, November 28, 2019

Reception at 5:00 PM | Dinner at 6:15 PM

Victoria Inn Hotel & Convention Centre

1808 Wellington Avenue, Winnipeg

Let's celebrate the aerospace industry in Manitoba and recognize excellence in our Aerospace Community.

RSVP with Heidi at 204-272-2957 or email: info@mbaerospace.ca

WHO ARE THE NEXT
AEROSPACE ALL-STARS?



Editors:

Barb Bowen
bbowen@mbaerospace.ca

Ellice Gan
egan@mbaerospace.ca

Art Direction & Layout:

Philip Navoa
pnavoa@gmail.com

Photographer:

Ellice Gan

Content Contributors:

Terry Trupp, Loren Hendrickson,
Randal Roulette, Wendell Wiebe,
Marc Groenewegen, Barb Bowen,
and Ellice Gan

For Manitoba Aerospace Events
sponsorship opportunities,
please contact:
Wendell Wiebe, CEO
wwiebe@mbaerospace.ca

Special thanks to the following
companies for the images used
in the AGM report.

Boeing (*front cover, top left*)
FastAir (*front cover, top right*)
Boeing (*back cover, top left*)
Magellan Aerospace
(*back cover, top right*)
Economic Development
Winnipeg (*back cover, bottom*)

All photographs in the report are
taken by Ellice Gan, *unless
otherwise stated.*

Photos by Ellice Gan: Girls at
AAiM Day 2018 & Pratt & Whitney
R985 Wasp Jr. Engine display
at Aero Recip office
(*front cover, left side*)

Printed by :

City Press Printing Ltd.
www.citypress.ca

Print Date: May 2019

2019

BOARD OF DIRECTORS

Ron Drepaul, Chair

Magellan Aerospace
Division Manager Aeroengines

Leslie Galbraith, Treasurer

Argus Industries
Vice President – Finance /
Administration

Amy May

Boeing Canada
General Manager

Daniel Verreault

GE Aerospace
Vice President, Government
Relations & Business
Development

Wayne McLeod

Keewatin Air
CEO/President

Mike McCartan

KF Aerospace Defense Program
Maintenance Manager (PRM)

Bob Hastings

Pointman Canada
President

Michael R. Scott

StandardAero
Chief Financial Officer &
Treasurer

Ex Officio Members

Wayne Copet

Manitoba Education and
Training
Executive Director

Terry Trupp

Boeing Canada Winnipeg
Communications Specialist

Kim Olson

Industry Advisor

MESSAGE FROM THE CEO

Wendell Wiebe



First, I would like to thank the Honourable Kelvin Goertzen for touring AAiM Day on Friday, May 31 and proclaiming Aerospace Week in Manitoba which is from June 3rd to June 7th. We truly appreciate the supports we receive from Manitoba Education and Training.

2018-19 has been another busy year for Manitoba Aerospace and we are pleased to announce that our membership has grown! Aurora Aerial and Babcock Canada have joined as full members and AppSpace Solutions, Bisco Industries, CargoJet and Elasto Proxy have joined as Associate Members. Please help us welcome our new members and read the more detailed profiles further in the AGM report.

For the first time, Manitoba Aerospace Inc has signed a four-year agreement with Manitoba Education and Training to provide services to the aerospace, aviation and defense industries in the areas of education, career awareness and engagement.

We are continuing to work with the Opaskwayak Cree Nation (OCN) who are planning to establish an aerospace manufacturing facility in their community. Phase 2 of the project will be completed later in June and will include a comprehensive business plan. A more detailed update will be provided at the AGM as well as at the Economic Development workshop and is part of this report.

In the fall, Manitoba Aerospace hosted our two (2) annual fund raisers: the Golf Tournament (September 2018) and the All-Star Awards Dinner (November 2018). Over \$31,000 was raised for the Student Endowment Funds and to date our

grand total is over \$298,000. We, and the students who receive our Manitoba Aerospace awards, are very grateful to the sponsors and participants for continuing to support and attend these events.

I would like to take this opportunity to thank Ron Drepaul, Board Chair and the Board of Directors for their ongoing support. We are proud of our accomplishments but could not do what we do without the leadership and support of the Board.

I also need to acknowledge the staff of Manitoba Aerospace. We are a good team that work well together. This year, there have been a couple of changes to our staff as well. We welcome Randal Roulette who is our new Indigenous Aerospace Liaison and works out of the offices of our partner, the Centre for Aboriginal Human Resource Development (CAHRD). We would also like to announce that we have hired Kimberly Ballantyne in the new position of Recruitment Specialist. Kimberly is with us this week to take part in our Manitoba Aerospace Week events but she doesn't officially start at Manitoba Aerospace until early July. Please be sure to say hello to Randal and Kimberly if/when you meet them this week.

In closing, I hope that you have been able to take part in one or more of the activities/workshops this week and have gained some valuable insights. All shared ideas will be compiled into a prioritized list and I will meet with all the member companies over the summer to verify or modify the list. The updated list will be shared with the Board to set the priorities for Manitoba Aerospace Inc. until 2025. 🦋



CAMEA Symposium



Rotary Career Symposium



HIRED Event at University of Manitoba



Manitoba Start Canadian Workplace Integration Forum | Photo Credit: Manitoba Start



AMMOP Class of 2018 Graduation



Take our Kids to Work Day 2018



2018 Girls in Aviation Day

Summary of Activities

CAREER & WORKFORCE DEVELOPMENT

Career Development

Manitoba Aerospace partners with educational institutions at the secondary and post-secondary levels in order to ensure the continued flow of industry ready graduates from local educational programs to support the aerospace and defence sectors. We have long-standing partnerships with the Faculty of Engineering and the Engineering Access Program at the University of Manitoba, the Faculty of Business and Economics at the University of Winnipeg, Red River College – Stevenson Campus, Neeginan College of Applied Technology, and Tec Voc High School.:

2018-2019 Key Accomplishments:

Career Awareness

Part of the mandate of Manitoba Aerospace is to ensure youth, parents, and educators are aware of the local aerospace industry and the great careers available in the sector. Manitoba Aerospace collaborates with a variety of community partners to ensure that Manitobans become more aware of aerospace careers and the established educational pathways to those careers. In 2018 – 2019, we interacted with 8444 individuals, 3406 more than our target of 5039.

- AMMOP at Tec Voc has been running for over 20 years.
- The Tec Voc High School program, Aviation and Aerospace Technologies has been in place since 2000.
- Neeginan College of Applied Technology offers Gas Turbine Repair & Overhaul, CNC Machine Operators and TIG welding courses (aerospace related courses).
- The Executive BBA program continues at the University of Winnipeg which gives prior learning credits to graduates from the Certificate in Management program towards a Bachelor of Business Administration.
- Manitoba Aerospace continues to work with other sector councils and other community partners related to Career Prospects Manitoba during Career and Workforce Development Month (November).
- Approximately 250 participants (Grade 6) with Career Trek took part in aerospace/aviation related activities between October 2018 and March 31, 2019.
- Manitoba Aerospace and the Faculty of Engineering at U of Manitoba held a week of activities in November called Aerospace WOWs on Campus.
- There are 22 engineering students enrolled in the Aerospace Option as part of the Bachelor of Science in Engineering (Mechanical) at the University of Manitoba.
- 14 first year ENGAP students were hosted at StandardAero in August 2018 and 30 ENGAP students attended the annual Information Session in January 2019.
- The 13th annual AAiM Day was held at RRC – Stevenson Campus on May 31, 2019.
- The 5th Annual Girls in Aviation Day will be held at 17 Wing on October 5, 2019.



AAiM Day 2018



Summary of Activities

PROMOTION, BRANDING & ADVOCACY

Marketing and Communications Committee

The committee is made up of professionals from the aerospace industry as well as staff from Manitoba Aerospace. The current members of the Committee are: Committee Chair Terry Trupp, Boeing Canada Winnipeg;– Karleigh Danowski, Magellan Aerospace; Don Fowler, StandardAero; from Manitoba Aerospace: Wendell Wiebe, Ellice Gan, Barbara Bowen and Heidi Abraham as well as Ken Webb, retired Executive Director of Manitoba Aerospace Association.

The mandate of the Marketing and Communications Committee is to support Manitoba Aerospace as it delivers its mission of promoting the growth of the aerospace industry in Manitoba through business development activities and workforce development initiatives.

Activities 2018-2019:

Networking and Promotional Activities: Manitoba Aerospace participated in and represented Manitoba at the following events and activities between April 2018 to March 2019.

2018

April 16–20 | AeroMontreal International Aerospace Week
April 10–12 | Canadian Armed Force Outlook Days
April 25 | ISED's Future Fighter Forum in Winnipeg
April 27 | Manitoba School Science Symposium (MSSS) at UoM
May 15 | Former Minister of International Trade – Honorable Francois Philippe Champagne visited StandardAero & GE Cold Weather Testing Facility
May 29 | AIAC Board Meeting in Ottawa
May 30–31 | Canada's Global Defence & Security Trade Show (CANSEC)
June 1 | Aviation and Aerospace in Manitoba Day (AAiM)
June 4–8 | Manitoba Aerospace Week
June 19–22 | Farnborough Airshow
June 26–28 | WESTDEF 2018
July 7–8 | Manitoba Airshow, Southport
July 16–19 | Farnborough Airshow
Aug 8–9 | CARIC Research Forum (Vancouver)
Sept 13 | Manitoba Aerospace Annual Golf Tournament
Oct 3 | CCAA - Annual Labour Market Strategy Forum
Oct 18 | Manitoba Aerospace Networking Meeting
Oct 29 | MRO Conference in Ottawa
Nov 7–8 | AIAC Summit in Ottawa
Nov 2 | Career & Workforce Development Month – The Launch
Nov 14 | Take Our Kids To Work Day
Nov 22 | Manitoba Aerospace All Star Awards of Excellence Gala Dinner

2019

Jan 10 | Aerospace companies' presentation to ENGAP students (Boring, StandardAero, Magellan Aerospace, Cormer Aerospace)
Jan 14 | Minister of Education & Training, the Honourable Kelvin Goertzen touring StandardAero facilities.
Jan 17 | Manitoba Aerospace Networking Meeting
Jan 22 | AIAC Vision 2025 Forum in Winnipeg
Feb 27 | CARIC – Saskatchewan Aerospace & Defense Forum
Feb 27–28 | Central Aircraft Maintenance Engineer Association (CAMEA) Symposium
Mar 8 | Manitoba Start – Canadian Workplace Integration Forum
Mar 12 | Rotary Career Symposium
Mar 14 | AMMOP Yearly Strategic Planning Session
Mar 14 | Manitoba Aerospace Labor Market Industry (LMI) Study networking meeting



Contrails Newsletter

Contrails, the Manitoba Aerospace electronic newsletter, was published twice between 2018 and 2019 you can read the newsletter at www.mbaerospace.ca

AAiM Day

The 12th anniversary of AAiM Day was held at Red River College – Stevenson Campus on June 1, 2018. The 2018 event was attended by over 900 Grade 6 students and teachers and was supported by 150 volunteers from the industry.

Manitoba Aerospace Social Media in 2017-2018

Manitoba Aerospace's Facebook page, which is our most popular platform, had an increase in followers by more than 51% and had over 412,400 engagements with various users. On Twitter, we had a 42% increase in followers over last year; and for LinkedIn, a 26% increase in followers from 1842 to 2321.

Manitoba Aerospace Golf Tournament

The 2018 Golf Tournament was held on Sept 13, 2019 at Larter's Golf and Country Club. Despite the chilly weather, the tournament raised over \$15,000 for the Manitoba Aerospace Student Endowment Fund. The 2019 Golf Tournament is scheduled for September 12. Hopefully the weather will be warmer this year.

Girls in Aviation Day 2018

120 girls between ages 8 to 16 attended the fourth annual Girls in Aviation Day on Oct. 5 at the Royal Aviation Museum of Western Canada. The event was hosted by Northern Spirit YWG – the Manitoba Chapter of Women in Aviation International. The girls and their parents were introduced to 8 different careers in aviation and aerospace.

All-Stars Dinner and Awards Gala

The 2018 Manitoba Aerospace All-Stars Dinner and Awards Gala was held on November 22 at the Victoria Inn. Over 170 people attended, and more than \$16,000 was raised for the Manitoba Aerospace Student Endowment Fund. Special thanks to the committee and our valued volunteer, Charlotte (Charlie) Rosen, who always helps to make this annual event a success. Mark your calendars for the 18th annual Manitoba Aerospace All-Stars Awards Dinner and Gala which will be held on November 28, 2019 at the Victoria Inn.

Manitoba Aerospace Website

The redesigned Manitoba Aerospace website was launched in March 2018. The new website is designed to be fully adaptable to tablets, desktop computers, smart phones and to provide an easy navigation experience for our visitors when they are roaming through different pages quickly. Please visit our website at www.mbaerospace.ca.

Aerospace Week 2018 (June 4 – June 8)

The week started off with AAiM Day held at Red River Stevenson's campus where 750 Grade 6 students had the opportunity to participate in six (6) hands-on aerospace and aviation activities. Also, at the event the Minister of Education proclaimed aerospace week to the students, staff and many volunteers in attendance.



Summary of Activities

Manitoba Aerospace Research & Technology Committee Members

Chair:

Ray Woodason
Standard Aero Ltd

Bob Hastings
WestCaRD

Gene Manchur
Composites Innovation Centre

Deputy Chair:

Loren Hendrickson
CARIC

Andrea McDonald
Boeing Canada Winnipeg

Shane Zakaluk
Cadorath

Secretariat:

Alfonz Koncan
Envirotec

Richard Nadeau
Magellan Aerospace Winnipeg

Trevor Cornell
Industrial Technology Centre

Dele Ola
Red River College

Cyrus Shafai
University of Manitoba

Martin Petrak
Precision ADM

David Simpson
Envirotec

Adrian Menzes
Cormer Aerospace

Jeff Thomas
Argus Industries

INNOVATION, RESEARCH AND TECHNOLOGY

In collaboration with the Consortium for Aerospace Research and Innovation in Canada (CARIC), the Manitoba Aerospace Research and Technology Committee's (MARTC) mandate is to advance the innovation, research and technology agenda in the Manitoba Aerospace community.

A significant area of interest for Manitoba Aerospace companies continues to be in advanced manufacturing. Building on the Manitoba Aerospace Technology Road Map (TRM), Manitoba Aerospace members clearly indicated this interest with the top 10 research interests all being in the advanced manufacturing area.

These interests in aerospace advanced manufacturing were expanded upon in collaboration with the University of Manitoba (UofM) in a June 14, 2018 workshop entitled: "Industry 4.0 in Manitoba: Are we Ready?", seeking to develop a common understanding of what Industry 4.0 is, understand our capabilities and needs from a Manitoba context and to define existing challenges and opportunities. Topics included an overview of Industry 4.0 and research capabilities and interests at the UofM and the National Research Council (NRC), along with an

overview of the Coalition for Advanced Manufacturing (CAM) including its Academic and Research & Development Committees.

Along with CAM, MARTC continues to engage with the NRC Advanced Manufacturing Program to ensure Aerospace Manufacturing interests are will be incorporated and expanded upon in the upcoming NRC Advanced Manufacturing Centre scheduled for construction beginning in 2019. During 2018 a subcommittee for Digitalization & Integration was authorized to explore critical Advanced Manufacturing / Industry 4.0 elements. The subcommittee is focusing on Data Management and Digital Transformation themes and is working to both increase awareness and to identify an actual collaboration project. Additional input and participation is most welcome (the next MARTC meeting is scheduled for September 2019).

Finally, the collaborative CARIC / NRC-IRAP program (Acceleration – Innovation) to assist Aerospace SMEs (at no cost) in creating and executing an innovation strategy was made available in Manitoba for the second year.



AIAC Vision 2025 Forum in Winnipeg | Photo Credit: AIAC, above and bottom left (next page)



RRC SMART Factory Grand Opening



Former Minister of International Trade,
Honourable Champagne visited StandardAero
& GE Cold Weather Testing Facility.



AIAC Vision 2025 Forum in Winnipeg

IN SUPPORT OF THE
AEROSPACE STUDENT ENDOWMENT FUND

SAVE THE DATE

SEPTEMBER 12, 2019

LARTERS AT ST. ANDREWS GOLF & COUNTRY CLUB

Texas Scramble • 1:00 pm Shotgun Start



MANITOBA AEROSPACE

2019

GOLF TOURNAMENT

\$175/PERSON
INCLUDES:
GREEN FEE, CART, LUNCH,
DINNER, AND
PRIZES

TO REGISTER OR FOR
SPONSORSHIP OPPORTUNITIES
PLEASE CONTACT PETER EWERT AT
(204) 334-2107 ext. 207 | pewert@larters.com

MANITOBA AIRSHOW



SAVE THE DATE

JULY 11 & 12, 2020 • SOUTHPORT, MB

Celebrating 20 Years of Partnership



Manitoba is situated on the traditional lands of the Anishinaabeg, Cree, Oji-Cree, Dakota and Dene peoples and the Homeland of the Metis Nation.

The members of Manitoba Aerospace are dedicated to moving forward, recognizing and reconciling the past, in a respectful way that honours individuals, communities and Nations.

This year, Manitoba Aerospace is happy to be celebrating our 20-year partnership with the Centre for Aboriginal Human Resource Development (CAHRD) and Neeginan College of Applied Technology as well as the Engineering Access Program at the University of Manitoba. We are also privileged to be working with the Opaskwayak Cree Nation as they develop the OCN Aerospace Manufacturing facility.



ManitobaAerospace



mbaerospace



manitoba-aerospace

| www.mbaerospace.ca

OCN AEROSPACE MANUFACTURING FEASIBILITY



The OCN Team at L&E Tubing in Seattle, Washington (left to right: Bryan Luttrell, L&E President, Kim Ballantyne, JP Martin, Kyle Lenton, Albert Ducharme and Marc Groenewegen)

A steering group, consisting of Manitoba Aerospace, OCN, the Project Manager and representatives from Boeing and Magellan, has been meeting via conference call on a regular basis since August 2018 in order to monitor Phase II of the project. In December, 2018, Indigenous Services Canada agreed to fund 50% of the dollars required so the steering group approached the Churchill Region Economic Development Fund who agreed to fund the remaining portion. After a Press Conference which was held in January 2019 to announce the funding, Phase II of the OCN Aerospace feasibility study was kicked off. The project team is defining the next layer of detail around 4 key strategies; Product and Market Strategy, People, Operations and a Business Strategy. Manufacturing capability for entry into the market will be for sheet metal components and assemblies for commercial airplane applications. The business will be owned and operated by OCN and located in or near The Pas, MB. Magellan Aerospace and Boeing Canada Winnipeg have been very involved, providing significant in-kind and technical support. The project is also getting contributions and technical input from the University College of the North in The Pas. There has also been a focus on benchmarking to observe best practice and learn about industry challenges. OCN personnel visited Boeing and several Tier 2 suppliers in the Seattle area in March. In April the same group spent time in Winnipeg visiting several Manufacturing businesses.

The project team is finalizing data collection and strategy development. The business plan and financial forecast will be delivered to the OCN Chief and Council on June 10th, 2019. The Chief and Council will then make a determination whether the venture is viable and whether they will move forward on creating the OCN Aerospace Manufacturing facility.

PARTNERSHIP WITH THE CENTRE FOR ABORIGINAL HUMAN RESOURCE DEVELOPMENT (CAHRD)

2019 marks the 20-year anniversary of the partnership between Manitoba Aerospace and the Centre for Aboriginal Human Resource Development (CAHRD). In 1999, CAHRD and Manitoba Aerospace embarked on a commitment to engage and work together to increase the participation of Indigenous peoples in the work force of the local aerospace industry. Over the past two decades, this commitment has established CAHRD as a key educational partner and laid the groundwork for great successes in capacity building and workforce development that are well worth celebrating.

In the year 2000, the first success was realized when a wholly Indigenous aerospace program was developed and run in partnership with CAHRD, and several member companies of Manitoba Aerospace. The program, which was offered in the evenings at Tec Voc High School, helped 5 indigenous men and 5 indigenous women attain the skills they needed to become TIG welders. The majority of the students went on to secure employment with various aerospace companies.

Between 2000 and 2008, 11 other aerospace training programs were completed including: Gas Turbine Repair & Overhaul (GTR&O)

Technician, Aerospace Manufacturing Technician (AMT), Computer Numerical Control (CNC) operators, as well as TIG and MIG Welding. These programs also had successful outcomes.

In November of 2008, the Aboriginal Aerospace Initiative (AAI) was signed with the Federal Government and was pivotal to the expansion of the capacity of Neeginan College of Applied Technology (Division of CAHRD). Through the AAI program, funds were received from the Federal Government to allow for the development of more formalized aerospace training programs which established another source of skilled workers for the aerospace sector, as well as, creating excellent training opportunities for the urban Indigenous community of Winnipeg. Subsequent to the signing of the AAI, Neeginan College has run 28 (and counting) impressive aerospace training programs, with over 200 Indigenous people gaining the skills they need for jobs in the aerospace sector.

Kudos and congratulations go out to all the partners: CAHRD, Neeginan College, Manitoba Aerospace and the member companies for working together to make our goals from 1999 a reality.

VALUE PROPOSITION

Soar with the best in the largest aerospace centre in Western Canada and the third-biggest in the country. Accelerate your growth with Manitoba Aerospace Inc., which, as a sector council, works to connect the local aerospace, aviation and defense industries with national and international markets and is also aimed at developing a world-class workforce to meet our members' needs.

1 | Competitive Operating Costs

Winnipeg is the most cost-effective city for aerospace manufacturing among major Canadian and U.S. cities.

Winnipeg has experienced more than \$900 million in aerospace and aviation-related investment in recent years, and revenues of Manitoba's aerospace manufacturers increased by 44% between 2007 - 2013.

2 | Enhanced Productivity

More than 40 aerospace firms are either headquartered or have major centres of operation in Manitoba, including Boeing Winnipeg, StandardAero and Magellan Aerospace. The sector encompasses a diverse supply chain that produce and sell products and services valued in excess of \$2.15 billion per year.

The industry is supported by a large number of aerospace suppliers including precision machine shops, tool and die makers, precision sheet metal fabricators, plating and coating operations, and electronics companies.

3 | World Class Workforce

Winnipeg's aerospace sector is competitive on a global level, producing world-class products for customers on six continents. Over the last 10 years, Manitoba aerospace companies have shipped billions of dollars in product exports, including over \$400 million in exports to emerging markets.

Currently the industry employs a labour force of over 5,000 highly skilled workers.

BENEFITS OF MEMBERSHIP

We want to work with you and your business to strengthen your competitive advantage in the local, national and global aerospace and defence sectors. Manitoba Aerospace provides members with the opportunity to connect with leading aerospace companies and OEMs, get access to national and global intelligence and advocacy, information dissemination, promotion and business opportunities, and workforce development via education and training.

Workforce Development

Grow the Capabilities and Engagement of your People

- strong partnerships with local secondary and post-secondary schools
- access to annual local Labour Market Information (LMI) statistics
- training and certification to increase the skills, confidence, and credentials of your workforce
- career awareness activities to attract the best and brightest to the sector

Promotion, Branding & Advocacy

Visibility and Voice

- events and networking opportunities throughout the year to increase your connections
- promotion and advocacy to highlight your company and local sector at Federal and Provincial levels
- a voice at the AIAC board
- showcase your company profile on Manitoba Aerospace Directory as well as Manitoba Aerospace Website and Social Media Platforms

Full Members

Companies and organizations with direct involvement in research and development; product development; manufacturing; service support; training; maintenance, repair and overhaul or information technology support of the aerospace and defence industries and related sectors. Only members are eligible for education and training supports and membership on the Manitoba Aerospace Board of Directors. Other benefits include opportunities to promote your company or organization through sponsorship of Manitoba Aerospace events in order to showcase your services and products.





Supplier & Economic Development

Build the Competitive Edge of your Business

- Competitive Edge Supplier Development (CESD) creates expansion opportunities for SMBs
- market intelligence and information on ITBs and your Canadian Value Proposition
- local, national and international trade resources to help in the growth of your business

Innovation, Research & Technology

Stay Ahead with the Latest Advancements

- access to the regional office of the Consortium for Aerospace Research and Innovation in Canada (CARIC)
- access to collaborative R&D networks and funding sources
- a voice at the AIAC board
- invitation to annual Research Forum which brings together researchers in Academia, Institutions and Industry in Manitoba to facilitate collaborative local Research and Development

Associate Members

Companies and organizations, including government departments and not-for-profit entities, who wish to support the objectives of the association and the members and do business with or related to the aerospace, aviation and defence industries. Representatives of Associate members are not eligible to be nominated or to sit on the Board of Directors. An Associate member is not entitled to receive notice of, attend or vote at any member meetings. Manitoba Aerospace may extend an invitation to representatives of Associate members to attend a members' meeting, but such persons shall have no vote. Other benefits include opportunities to promote your company or organization through sponsorship of Manitoba Aerospace events in order to showcase your services and products.



AMMOP Strategic Planning



Farnborough Airshow



Networking Meeting



Manitoba Aerospace signing MOU with OCN



OCN aerospace plant announcement

2019 MEMBER COMPANIES



2019 ASSOCIATE MEMBER COMPANIES



WELCOME TO OUR NEWEST MEMBERS!

NEW MEMBER COMPANIES



Aurora Aerial Inc. is a value-added Manufacturer that specializes in integrating both hardware and software applications for your special operational needs, with a focus on providing larger payload and longer endurance for commercial use. The team is made up of Fredrick Petrie, an experienced aviation services and policy/regulatory executive; Alan Tay, a professional pilot with consulting expertise in aviation training and management; and Joe Zhao, who has over 20 years of software/hardware integration experience.

Babcock Canada is a wholly owned subsidiary of the Babcock International Group, which employs over 35,000 skilled staff who design, build, manage, operate and maintain assets that are vital to the delivery of many key public services, both in the UK, Canada, and overseas. Our market-leading reputation is based on one key fact: Babcock is a partner which can be trusted to deliver™.

Babcock is a Canadian ISO 9001 & 14001 and OHSAS 18001 registered company, and employs over 400 personnel across four locations: Halifax, Ottawa, Winnipeg and Victoria.

Babcock delivers a fully integrated and professional aerial firefighting management service, underpinned by their own proprietary technology investments and internally delivered mission specialist pilot training. They operate both fixed-wing and rotary-wing aircraft throughout Europe and in Canada.

Wayne A. Ellis has over twenty years of Canadian Military experience, including Air Defence tours in North Bay, NATO AWACS in Geilenkirchen, Germany, and the Canadian Forces School of Aerospace Studies (CFSAS). In 1998, he led a team to research, plan, and build the Canadian Forces' first museum dedicated to the Air Defence mission in North Bay – Canadian Forces Museum of Aerospace Defence.

Wayne took his retirement from DND in 2007 and established **AppSpace Solutions, Inc.**, an aerospace and defence consultancy, as a means to increase the general awareness to the Canadian public, civil, military and commercial, of the importance of space systems and their applications.

bisco industries is a global distributor of electronic components, specialty fasteners, and hardware. bisco leverages relationships with an extensive network of manufacturers to provide our clients with superior service. bisco boasts 150+ authorized brands, 90,000+ items in stock, and 48 local offices.

NEW ASSOCIATE MEMBER COMPANIES

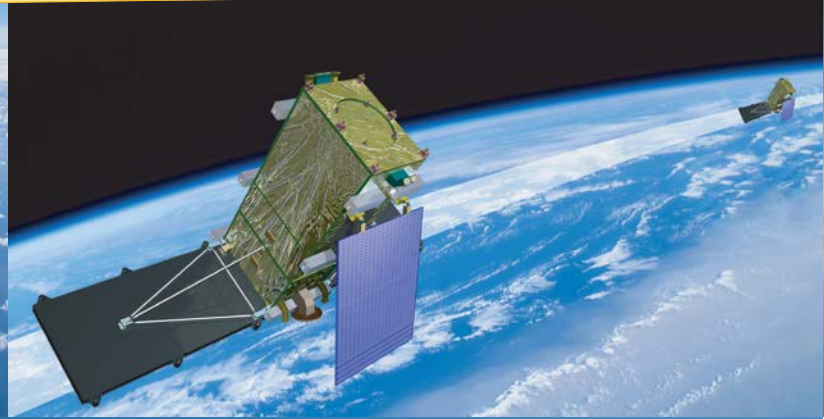
bisco industries, Inc. employs over 388 employees at forty-eight (48) locations. These facilities are strategically located throughout the United States and Canada to offer local service, one-stop-shopping, and ensure fast delivery and availability to our customers. Our global expansion plans include opening a branch in Mexico in the near future and entering the European market soon after...

Cargojet Inc. is a provider of time sensitive overnight air cargo services. The Company's cargo business is comprised of operating a domestic overnight air cargo co-load network between over 10 Canadian cities; providing aircraft to customers on an aircraft, crew, maintenance and insurance (ACMI) basis, operating between points in Canada, the United States and Europe; operating scheduled international routes for multiple cargo customers between the United States and Bermuda, and between Canada and Europe, and providing dedicated aircraft to customers on an adhoc charter basis operating between points in Canada, the United States and other international destinations. In addition CargoJet offers aircraft handling and aircraft and airport equipment fueling services through its Fixed Base Operations business at the Hamilton Airport.

The Company's freighter aircraft fleet includes B767-200, B757-200, B757-200 and Challenger 601, among others. CargoJet is Canada's leading provider of time sensitive overnight air cargo services.

Elasto Proxy is a family-owned company with strong roots, strong business relationships and a growing global presence in the rubber and plastics industry. Founded in 1989 by Doug and Donna Sharpe, this "small family boutique" flourished in Quebec, before expanding first in Ontario and then in South Carolina. They also bring their innovative business philosophy to China, where Elasto Proxy's technical services and practical knowledge satisfy customers in this rapidly growing Asian market.

With facilities in Canada and the United States, Elasto Proxy is a leading supplier of high quality, low volume rubber and plastic components. Its manufacturing capabilities include waterjet cutting, film molding, injection molding, composite rolling and hot rolling of 3M foam rubber tapes. Flexible work cells and a paint chamber for surface coating are also available to meet your custom manufacturing needs.



Manitoba is home to a host of complementary world class aerospace companies that play a vital role in the global aerospace industry. Manitoba provides strategic advantages to the aerospace industry: a network of collaborating companies, a solid workforce, tailored education programs, international R&D capabilities, supportive governments, and an ideal geographic location. Together, these factors create a thriving and globally competitive business environment.

If your company is looking for a partner with access to North American markets and advanced aerospace technology, look to the Manitoba aerospace industry. If you are seeking a cost-competitive site to do business, look to Manitoba, Canada. If you need a source of aerospace component manufacturing or engine maintenance services, engine icing and other environmental testing, or composite materials manufacturing or R&D, look to Manitoba companies.



1000 Waverley Street
Winnipeg, Manitoba R3T 0P3

Tel (204) 272-2952
www.mbaerospace.ca

