

Aerospace in the West





- Network of western provincial aerospace associations
- Regional affiliate to Aerospace Industries Association of Canada (AIAC)
- Supports Western Canada and a regional aerospace cluster in Canada
- Supports collaborative initiatives such as
 - Participation in international airshows
 - Input/feedback on national policy
 - Representation and support to AIAC
 - Regional conferences and development activities





MANITOBA AEROSPACE Association News

- MAA (business development) and MAHRC (workforce development)
- 3 large companies , 15 SMEs, 21 associates (incl 4 R&T NPOs)
- Strong network and collaboration between/among industry, govt, academia and research
- Ongoing Competitive Edge Supplier Development Program (MAHRC)
- Supported AIAC led Emerson Review working groups
- Hosted visits/missions – e.g. China, Spain, IC, SADI, foreign journalists
- Aerospace Challenges and Opportunities study with Economic Development Winnipeg
- Workforce development and career awareness/ outreach (MAHRC)
 - Individual and multi-company training
 - AAIM Day, Student Bursaries, Careertrek, Career Symposiums



Impact/Response to Emerson & Jenkins

- Manitoba industry supports the recommendations /outcomes
- Industry led workshop to review recommendations
- Technology roadmap underway to identify key technologies for MB
- MB companies participating in AIAC technical committees
- Provided input to IC on supply chain development discussions
- Met with local MP member of aerospace caucus



MANITOBA AEROSPACE Industry Updates

- Both challenges (AVEOS, sequestration) and opportunities:
- Boeing adding 14000 sq. m., extended CAW contract, preparing for 737 max, design authority for 787 components
- Magellan shipped first F-35 Tail-fin assembly, preparing for RADARSAT Constellation Mission, celebrates 50yrs of Black Brant
- StandardAero – CanAm Business partnership award for GE Test Centre , ships 1,000th CF34 engine
- Enduron – new contracts with General Dynamics
- Cormer Aerospace – new work with Bombardier, FACC and Airbus
- Both engine test facilities expand into year round operations
- Industry and MB govt supporting Engineers in Residence program





MANITOBA AEROSPACE Future Outlook

- Participate in AIAC technical committees to support implementation of Emerson and Jenkins
- Complete Technology Roadmap for MB
- Build on unique capabilities, e.g.
 - cold weather and environmental engine testing capabilities
 - Composites Innovation Centre and CRN collaboration led by UBC
- Build capabilities of SMEs through supplier development program
- Build workforce through:
 - creating career pathways into the aerospace industry
 - industry/govt collaborations with high schools, colleges and universities.
 - ongoing training support to meet ever-changing needs of industry





Saskatchewan
Ministry of the
Economy



Association Update

- Role of the Ministry of the Economy
- Saskatchewan industry is: satellite communications systems, fabricated components, custom defence manufacturing, mini UAVs, atmospheric testing
- NFTC Moose Jaw, Commercial Pilot and Aircraft Maintenance Engineer training





Saskatchewan
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Industry Updates

- Saskatchewan Aerospace & Defence Forum April 2012
- SIIT's AME program graduated its first class June 2012
- MOU announcements between Textron on TAPV and SED Systems & Evraz Steel
- Contracts on LAV III upgrades to Dumur Industries and SED Systems





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Impact/Response to Emerson & Jenkins

- Industry provided input to the Western response to Emerson report
- SME development and research collaboration mirror Saskatchewan capabilities





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Future Outlook

- Continue to focus on IRB opportunities for manufacturing, R&D, and training opportunities
- CANSEC, DEFSEC, WESTDEF, Abbotsford Air show
- Saskatchewan A&D Forum October 2013





Aviation Alberta Association Update

- **Vision** - To be a catalyst for industry growth and the recognized voice of aerospace, airport and aviation interests in Alberta.
- Recent review has focused association on the support of small airports in the province, education and career promotion to encouraging young people to consider a career in the aviation industry
- Aerospace remains a focus, mainly on the defence and security side





Impact/Response to Emerson & Jenkins

- As Alberta is highly active in in-service support, this is one area of the report Alberta industry is keenly waiting action on. (*Recommendation #14 – A relationship approach to in-service support*).
- Emerson recommendation is synergistic to the mandate of Aviation Alberta and what it is trying to accomplish in the province



Aviation Alberta

Industry Updates

- Alberta has a strong foothold in aerospace and defence.
- Industry contributes \$1.3 billion annually to the provincial economy,
 - 170 aerospace and aviation companies,
 - employs over 6,000 highly skilled Albertans.
- AB recognized world-wide for its expertise within niche areas
 - robotics and unmanned vehicle systems,
 - defence electronics, and space science, geomatics.
 - logistics support to the military,
- SME focused Productivity and Competitiveness Program Pilot delivered in 2012 - which was quite successful





Aviation Alberta

Future Outlook

- Alberta is looking to run the productivity and competitiveness program again to aid additional SMEs further entrench themselves in the A&D sector
- An overview and panel of the pilot will be a session at WestDef this year.
- **WestDef 2013**
 - July 7-9
 - Calgary, AB
 - Sheraton Hotel





BC Industry Update

- BC Industry continues to grow as a diverse cluster of recognized suppliers and partners to the international aerospace community.
- The AIABC is completing a renewal process to be the voice of the province's aerospace community.
- AIABC is collaborating with BC's appointed A&D focal on industry advocacy and strategy development.
- Several members participated in the Emerson Review and Jenkins Review.
- The following slides profile some of BC's lead aerospace companies, including both members and non-members of the association.





BC Aerospace Industry Leaders:

- **Advanced Integration Technology Canada**
 - Designs and delivers advanced factory automation and tooling to the aerospace industry.
- Current major programs
 - Boeing 787 Final Assembly and Body Join
 - Spirit 787 Section 41 Mandrel Assembly/Disassembly
 - Lockheed Martin F-35 Electronic Mating and Alignment System (EMAS)



- **Asco Aerospace**
 - Design/build of aerospace high lift devices and complex mechanical assemblies plus build to print on large complex aluminum and hard metal machined components.
- **Current Major Programs:**
 - Boeing 737/777/787,
 - Bombardier CRJ700/900/1000,
 - Lockheed Martin F-35



AIABC

Aerospace Industry Association of British Columbia

- **AVCORP Industries**
 - Builds systems-integrated composite and metallic Aircraft Structures.
- Current major programs
 - Lockheed Martin F-35 Outboard Wing
 - Boeing 737 Wheel Well Fairing, 777
 - Boeing KC 135 Ruddevator
 - Boeing CH47 Nose Enclosure
 - Bombardier Challenger, Q400, CRJ



- **Cascade Aerospace**

- Cascade is an aerospace and defence contractor providing long-term integrated aircraft support programs for OEM's, military, government and commercial customers.

- **Current Major Programs**

- One of only two Lockheed Martin authorized C-130 heavy maintenance centers in the world.
- Fleet management services for RCAF C-130 Hercules.
- CC-130J Fuselage Trainer





• Composite Research Network

- A collaboration of academia and industry partners supporting the composites industry in Western Canada and beyond.
- Mission: To create knowledge in practice documents that enable effective and low-risk knowledge-based composites manufacturing and design.
- Launched in January 2012 with a \$9.8m investment from Western Economic Diversification Canada.
- Boeing became the founding industrial member of the UBC's Composites Research Network in March 2013.





- **Conair Group Inc.**
 - A world leader in providing, innovative, exceptional aerial suppression and wildfire firefighting services to emergency response organizations
- Current major programs
 - Air Tanker developments – RJ85AT Airtanker in joint venture with Falko Regional Aircraft.





• Heli One

- Heli-One is the world's largest helicopter support company.
- Servicing every part of a helicopter; some 40,000 parts
- Operates out of 500,000 square feet of facilities
- Supports over 150 bases worldwide
- Has over 50 years' experience





- **Kelowna Flighcraft**

- Aircraft leasing and operation, AMO: heavy and line maintenance/ component repair. Military flight training

- **Current Major Programs**

- Air Cargo services – Canada Post, Purolator Courier
- Canadian Forces Training System: RCAF Primary Flight training
- Third Party heavy maintenance and line maintenance support

AIABC

Aerospace Industry Association of British Columbia

- **MDA**
 - Provider of global communications and information solutions
- Current major programs:
 - Canada's RADARSAT Constellation Mission,
 - Canada's support of the International Space Station robotics
 - JUPITER 2/EchoStar XIX – world's highest capacity broadband satellite
 - Israel's AMOS-6 satellite communications payload
 - Advanced technology solutions for the Russian Express AM5 and AM6 satellites



- **MTU Maintenance Canada**

- The company holds OEM licenses to repair and overhaul the GE CF6-50 and the CFMI CFM56-3 engines.
- In addition to the repair of engines, accessory component repair is a growing and important part of MTU'S service portfolio





- **Viking Air**
 - Is a first tier OEM specializing in de Havilland aircraft products.
 - Type certificate holder for the DHC-2 Beaver, DHC-2T Turbo Beaver, DHC-3 Otter, DHC-6 Twin Otter, DHC-4 Caribou, DHC-5 Buffalo and DHC-7 Dash 7 aircraft.
- **Current major Program**
 - Production of the DHC-6 Twin Otter Series 400

AIABC

Aerospace Industry Association of British Columbia

2013 **AEROSPACE, DEFENCE & SECURITY** EXPO

DISCOVER YOUR INDUSTRY in British Columbia

Abbotsford BC | August 7th - 8th
at the Fraser Valley Trade & Exhibition Centre (TRADEX)

Don't miss this unique event! You will have the opportunity to network, engage in B2B meetings, explore the success factors of international business, learn about industry trends, and pursue new business opportunities. This event will provide exposure and connections between industry SMEs, major manufacturers, government and end users in the aerospace, defence and security sectors.



WESTERN CANADA...Collaborating For Success

L'OUEST CANADIEN...La collaboration mène au succès