



MESSAGE FROM THE
EXECUTIVE DIRECTOR -
VIC GERDEN



We knew it couldn't last forever – not much does. But it has been a Manitoba summer and autumn to boast about! So let the winter fun begin. Speaking of changes of environment, this will be my farewell article as Executive Director of the MAA. I will be embarking on yet another career change (my 7th!), so I will be reluctantly vacating the role of MAA Executive Director. Where did the past five years go?

I want to take this opportunity to thank all MAA members and partners for your support and participation in the various MAA events and forums. Through our collective efforts, Winnipeg is being now included in the same sentence as Montreal and Toronto in discussions about important aerospace activity in Canada.

Thank you in particular to the members of the Manitoba Aerospace Marketing & Communications Committee, under the current leadership of Terry Trupp from Boeing Winnipeg who chairs this outstanding group of volunteers from industry and provincial and federal government. Thank you as well to my colleagues at the Manitoba Aerospace Human Resources Council. I have thoroughly enjoyed working with such dedicated, capable and caring people.

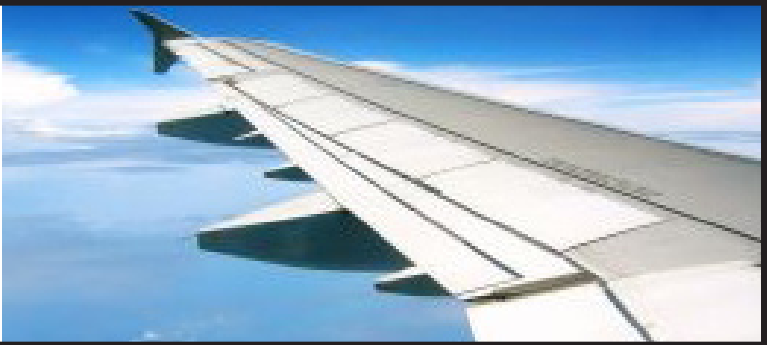
This has been a continuing recovery year for most MAA member companies. It appears that order books are quite full. However, customer demands are progressively more demanding and challenging. Quality, cost and on-time delivery are of course important - but not necessarily sufficient. Company financial stability and strength, culture, ability to innovate, anticipate customer needs and an ability to be flexible and grow with customers' needs are just some of the additional assessment criteria used when evaluating suppliers.

Continual improvement in productivity will be needed to continue to compete. To that end, the Manitoba Aerospace Competitive Edge program is being offered by the Manitoba Aerospace Human Resources Council (MAHRC) to help companies 'up their game'. This is a very powerful model that involves benchmarking, training, coaching and mentoring. Thank you to Boeing Winnipeg, Magellan Aerospace, StandardAero, and Aveos for providing experienced operational mentors to assist MAHRC and SMEs in the program. SMEs that are not yet involved in the Competitive Edge program should seriously consider participating. Wendell Wiebe at MAHRC would be pleased to provide any further information and answer your questions.

This has been a historic year for two of our flagship companies. StandardAero is celebrating 100 years in business and Boeing Canada Operations Ltd is celebrating 40 years in Winnipeg. Along with their obvious major positive impact on the Manitoba economy, these companies have been terrific community contributors. Congratulations!

Inside this issue:

| | |
|---|--------|
| Manitoba Aerospace All-Stars Awards of Excellence Dinner..... | Page 2 |
| Industrial Technology Centre..... | Page 4 |
| Manitoba Aerospace Golf Tournament..... | Page 4 |
| Grand Opening of Building #35 at Magellan Aerospace..... | Page 6 |
| A Message from the MAA President..... | Page 6 |





Over the past 100 years Manitoba aviation and aerospace industries have made and continue to make significant contributions to our Manitoba and Canadian economies. I encourage and applaud continuous efforts to implement cutting edge technology to position our industry to participate in current and future important military and commercial aerospace programs. And of course it will be the talented and dedicated people that make everything happen.

Thank you to the MAA members for the All-Star Award that was bestowed upon me at our 10th annual dinner on November 17. I also want to congratulate the other recipients of the 2011 Manitoba Aerospace All-Star Awards of Excellence -- the individual recipients of John Ouendag from StandardAero, A.J. Lauder from Boeing, and Sean McKay and Mike Hudek and their colleagues at the Composites Innovation Centre. These All-Star Award recipients typify the continuous improve-

ment and collaboration that will help our Manitoba aerospace industry to thrive.

Finally I want to thank all of you for being such great collaborators - that includes collaborators from government at all levels, educational institutions and other support organizations as well as industry. It has been an absolute pleasure to work with such cooperative, community-minded, dedicated & reliable colleagues.

My next gig will be with West Canitest R&D Inc (WestCaRD) whose mission will be to grow the Manitoba economy in the engine and environmental testing subsector by working with General Electric, StandardAero and other partners. I look forward to continuing to work together with many of you.

All the best to you all.

MANITOBA AEROSPACE ALL-STARS AWARDS OF EXCELLENCE DINNER

The 10th Annual Manitoba Aerospace All-Stars Awards of Excellence Dinner took place on Thursday, November 17 at the Victoria Inn in Winnipeg. Below are this year's recipients:

Johan (John) Ouendag - StandardAero

Excellence for Education, Training, Leadership, and Teamwork.

A.J. Lauder - Boeing

Excellence for Technical Leadership and Innovation.

Vic Gerden - Executive Director, Manitoba Aerospace Association

Excellence as a Builder for his leadership and significant contribution to the successes of the Manitoba Aerospace Association.

Composites Innovation Centre - Team

Excellence for Innovative Business Practices.

The dinner was a great success and raised money for the Manitoba Aerospace Student Awards Endowment Fund. A BIG congratulations to the award recipients of the evening.



Johan (John) Ouendag



A.J. Lauder



Vic Gerden



Composites Innovation Centre



MANITOBA AEROSPACE ALL-STARS AWARDS OF EXCELLENCE DINNER

THE NIGHT IN PHOTOS





The Industrial Technology Centre (ITC), located in SmartPark at the University of Manitoba, has served the Manitoba Industry for more than 30 years. As a Special Operating Agency of the Province of Manitoba, ITC helps organizations to apply innovative tools and practices to improve products, increase productivity, and boost competitiveness.

With a long history of introducing technologies required by Manitoba industry, ITC's Engineering and Technical Services provide testing, calibration, noise and vibration analysis, and specialized engineering expertise to many sectors, including aerospace and transportation.

With 17025 accreditation, as well as ISO 9001 and CLAS certification, ITC everyday operations meet the high level of quality standards that are used in the aerospace industry.

ITC's comprehensive Mechanical Testing service provides product and materials testing, including composites which are prevalent in the aerospace industry. The laboratory undertakes many activities using recognized industry standards, including characterizing material strength or simulating environmental conditions, such as temperature, humidity, and corrosion. In addition to accredited mechanical testing, ITC consults with companies on custom test procedure development.

The Dimensional Calibration laboratory provides local access to services that aerospace companies can now depend on for fast turnaround calibration and cost savings versus sending items out of province. The subsequent addition of calibration for surface plates, force machines, and hardness testers was in response to industry needs and is now used by industry across the western provinces.

ITC expertise in FEA simulation can assist companies in determining product performance. Finite Element Analysis (FEA) is used in the design and development of new products, and in the evaluation of existing products. FEA facilitates the implementation of design iterations early in the product development cycle for optimal results.

Similarly, ITC's Advanced Visualization and Virtual Reality facility provides easy access to the most advanced 3D visualization tools and expertise. Visualizing products or datasets in a three-dimensional immersive environment helps companies reduce prototyping costs and overall project time while increasing the quality of the product. The facility also develops innovative and cost-effective interactive training applications for companies that need a safe and effective solution for equipment or process training.

Sometimes the only difference between you and your competition is what you know – or don't know. ITC's Library & Technical Information service helps companies fill the information gap, providing access to technical information in print or electronically in a number of specialized subject areas, such as composites and lean manufacturing.

Should you wish to explore any of these services further or require expertise not currently available in your company, contact the Industrial Technology Centre.

We're here to help you succeed!

- Betty J. Dearth, BA, MILS -
*Advanced Technologies
Library & Technical Information*

MANITOBA AEROSPACE ASSOCIATION GOLF TOURNAMENT

The Manitoba Aerospace Association held its first golf tournament on Thursday, September 15, 2011. It took place on a sunny afternoon at Bel Acres Golf and Country Club.

The tournament was a Texas scramble and raised a grand total of \$9000.00. The money raised will be put towards the Aerospace Student Awards Endowment Fund.

The following photos are of the teams who participated in the day's tournament.



Don Boitson, Brett Habington, Ken Cooke, Dave O'Connor



Stuart Duncan, Quentin Kuchinski, Joe Shedden, Kevin McCombs



Randy Pratt, Terry Shea, Sandy Stewart, Cam Lawrence



Laura Kusko, Larry Mitchell, Garry Eyford, Ray Derksen



Greg Soubry, John Malcolm, Tom Roche, Manny Atwal



Dave Hyem, Herman Hansen, Marc Groenewegen, John Dillingham



Blair Chudd, Dan Young, Trevor Bowden, Kevin Bartelson



Wheeler (Emcee), Bill Bumsted, Pascal Bellanger, Damon Johnston, Kyla Wiebe



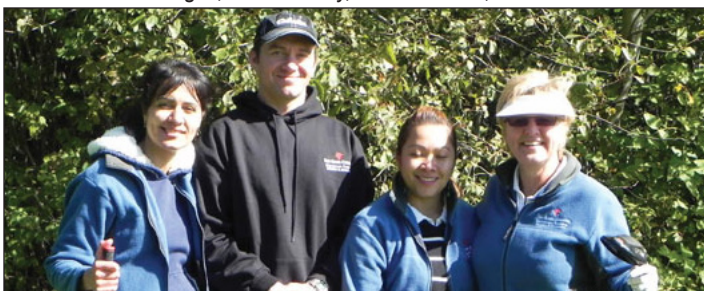
Jules Saurette, Andrews Challoner, Paul McRae, John Haarstad



Steve Machtigall, Robert Tarry, Chris Walters, Don MacDonald



John Kliewer, Joe Prest, Wendell Wiebe, Ray Starr



Mahi Fahimian, Johnathan Epp, Vadsana Phommainh, Charlotte Rosen



Malcolm Hinds, Florence Ticzon, Greg Anderson, Steve Crouch

GRAND OPENING OF BUILDING #35 AT MAGELLAN AEROSPACE

On Tuesday, 25 October 2011, Magellan Aerospace held a ceremonial ribbon cutting event celebrating the final stages of completion of the company's new Advanced Composite Manufacturing Centre in Winnipeg.

The company was very honoured to have The Honourable Julian Fantino, Associate Minister of National Defence and The Honourable Peter Bjornson, the Manitoba Minister of Entrepreneurship, Training, and Trade speak at the event, along with Magellan's Chairman of the Board, Murray Edwards, and President and Chief Executive Officer, Jim Butyniec.



Mr. Edwards used the opportunity to give special thanks for the support of the Federal Government, other funding partners, customers, and stakeholders in this major new undertaking.

Minister Fantino offered congratulations to the company and its employees at the 138,000 square foot facility where Prime Minister Stephen Harper broke ground just one year ago.

The Advanced Composite Manufacturing Centre (or Building #35) is part of an over \$120 million project to invest in technology and capabilities for the manufacture of complex composite fabrication and assemblies. When fully commissioned it will be one of the most advanced composite manufacturing and assembly centres in North America.

The launch customer for the new centre is BAE Systems in the UK, who awarded Magellan a contract to produce F-35 Lightning II horizontal tail components.

From L-R: Murray Edwards, Magellan Aerospace Chairman of the Board; The Honourable Julian Fantino, Associate Minister of National Defence; The Honourable Peter Bjornson, Manitoba Minister of Entrepreneurship, Training, and Trade; Jim Butyniec, Magellan President and CEO; and Don Boitson, Vice President and General Manager, Bristol Aerospace.

Currently up to 1038 ship sets of horizontal tails are planned to be produced by Magellan over the life of the F-35 program.

Jim Butyniec said "Over the last decade, Magellan, together with the government, have tactically invested in the necessary knowledge and technology to support this initiative. Today we are at the point of entering full scale production and are ready to meet the state-of-the-art processing demands to support F-35 program. This new facility and its capabilities represent the culmination of over a decade of preparing and planning for this strategic opportunity." he concluded.

- Laura Stephenson -
Director, Corporate Communications

MESSAGE FROM THE PRESIDENT, MANITOBA AEROSPACE - PAUL HEIDE



It seems there is rarely a "dull" year in the Manitoba aerospace world. 2011 has been even more exciting than normal.

Congratulations to this year's Aerospace All-Stars Award winners. The four deserving recipients have each played a major role in providing excellence in quality, teamwork, and

leadership to the Manitoba aerospace industry. These people are great example of why our aerospace industry is resilient in the face of a continuously changing and challenging global environment.

And yes, we are competing globally. Despite the fact that the playing field is not necessarily level internationally, or even across our country, Manitoba companies continue to compete favorably because of the



MESSAGE FROM THE PRESIDENT, MANITOBA AEROSPACE - CON'T.

excellent people in our workforce. In addition to attracting, training, and retaining good people, we also need to continue to 'up our game'. Not only in quality, delivery, and cost, but also in our overall ability to compete and improve productivity.

Based on that challenge, the Manitoba aerospace community has instituted the Competitive Edge company development program – an innovative and robust model that involves benchmarking, training, mentorship, and coaching. Five of our MAA member companies are enrolled (Cormer Aerospace, Enduron Custom, Standard Manufacturers Services, Argus Industries, and Micropilot). By all reports the Competitive Edge initiative is developing into a very effective program and is being well received by our companies.

A second group of companies will be benchmarked in early 2012. It is important to recognize the support of Western Economic Diversification and the Canadian Manufacturers and Exporters for providing funding via the Advanced Manufacturing Initiative, as well as the National Research Council (IRAP Program) for providing some seed funding for the program.

Equally important to recognize and thank are the larger member companies (Boeing Winnipeg, Bristol Aerospace, and StandardAero – as well as Aveos) for providing senior experienced mentors. They are an important facet of the program. Thank you to the mentors themselves who 'volunteer' their time to the betterment of the Manitoba aerospace community.

I would also like to take this opportunity to thank all of our government and educational partners for their support over the year. The success of the Manitoba Aerospace and MAHRC Model is predicated on the continued support of our partners.

There has been much going on this last year. Both Boeing and StandardAero have expanded their plants

and their work scope. StandardAero has not only completed the expansion to their Winnipeg facilities, but is now fully operational with their latest CFM 56-7 engine MRO line to carry out their contract to overhaul the WestJet airline fleet of engines for the next 10 years.

Magellan Aerospace (Bristol) continues to build satellites and legacy products, but has also completed a large building expansion to manufacture components for the new international Joint Strike Fighter program. Magellan's investment of over \$100M will position them well to manufacture a billion dollars of JSF products over the life of that program.

Boeing Winnipeg is also investing in various technology upgrades and capabilities and remains the largest composite manufacturing company in Canada and one the largest in North America.

We have also recently managed to attract another large OEM to our aerospace community. As you may have noticed if you have recently flown out of the Winnipeg airport, General Electric is building an Icing Research & Development Test Centre at the north end of the Winnipeg airport property. StandardAero will be operating the facility for GE.

Our small and medium sized companies have also had a busy year and come out of the economic downtown with new business and busy order books. Overall, our association members have continued to create over 5000 direct jobs and an estimated 7,500 jobs, including the indirect and induced jobs. And over \$1.5 billion in annual products and services.

Looking to the future, we know that there will continue to be challenges in the world's economies. However, the forecast requirement for newer, greener aircrafts is high (estimated at over 25,000 aircrafts over the next 20 years). So the major manufacturers are increasing their outputs, which is a good sign for manufacturing.

