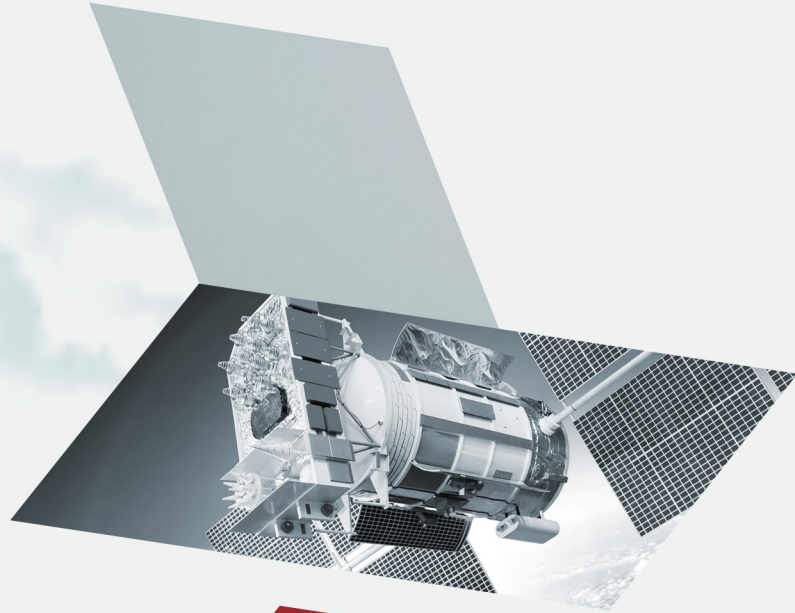




FORUM **AEROSPACE** INNOVATION

➤ APRIL 25-26 2016

**COLLABORATE
GLOBALLY
TO DEVELOP
AEROSPACE
INNOVATION**



ORGANIZED BY:



IN COLLABORATION WITH:



/ OUR PARTNERS

LEAD PARTNER



PLATINIUM PARTNERS



DIAMOND PARTNERS



GOLD PARTNERS



SILVER PARTNERS

BRONZE PARTNERS



GOVERNMENT PARTNERS



MEDIA PARTNERS



/ MESSAGE FROM THE CO-CHAIRS

Our industry is facing an increasingly strong global competition. All countries, all companies, of any size, must invest in tomorrow's technologies in order to stay competitive and to maintain ever-evolving industry's standards. In Québec, we are proud to have positioned ourselves as a global R&D hub; our region accounts for 70% of Canadian aerospace investments in R&D. With a \$15.5B turnover in 2015 and more than 80% of our production intended for export, our business sector is a true flagship for Québec and Canada's economy.

The 2016 Aerospace Innovation Forum, now in its 5th edition, will address the theme **"Collaborate globally to develop aerospace innovation."** This event is organized in collaboration with the Consortium for Research and Innovation in Aerospace in Quebec (CRIAQ). In the four previous editions combined, the Forum gathered more than 2,500 participants and organized more than 1,500 B2B meetings between participants from all over the world.

With close to 200 companies in 2015, Québec's aerospace supply chain is one of the most performing, diversified and innovative worldwide. Innovation is at the core of the strategic issues of any company. To adapt while collaborating and sharing best practices is the reason of our success. The production chain automation and, more broadly, the development of Industry 4.0 are priorities for our manufacturers. In this context, Aéro Montréal implemented various programs to foster SMEs' collaboration as part of the development of new technologies, greener and more efficient – the SA2GE Program – but also to assist SMEs in their road for excellence – the MACH Initiative. This Initiative and has today 4 cohorts, totalling 47 companies, 28 sponsors and 465 completed projects.

This year, Aéro Montréal celebrates its 10th anniversary.

"TO ADAPT WHILE COLLABORATING AND SHARING BEST PRACTICES IS THE REASON OF OUR SUCCESS."

Since 2006, the board of our Québec's aerospace cluster regroups all major decision makers in Québec's aerospace sector, including companies, educational and research institutions, as well as associations and trade unions. Our mission is to engage Québec's aerospace cluster with a view to supporting its growth and its outreach on the global scene. Our vision is to become a global benchmark in aerospace.

This year, the 2016 Aerospace Innovation Forum will be held during the International Aerospace Week - Montreal. The Week, in its second edition, is a unique opportunity to promote various issues related to the aerospace sector: innovation and research, MRO and talents development.

Today's event is positioned as a global model of its kind by the sheer quality of its participants and of the contents addressed in the theme of aerospace innovation. We are pleased to welcome again this year renowned international speakers, representing the most performing corporations in our industry. We hope you will take this opportunity to develop your business relationships and to learn more about our business sector.

We wish you an excellent forum.



Suzanne M. Benoît
President
AÉRO MONTRÉAL



Fassi Kafyeke
Senior Director, Aéro Montréal Strategic
Technology and Advanced Product
Development
BOMBARDIER, AÉRONAUTIQUE

/ MESSAGE FROM THE MINISTER OF INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT

On behalf of the Government of Canada, I would like to extend a warm welcome to all participants at the 2016 Innovation Aerospace Forum, part of Aéro Montréal's International Aerospace Week.

Aerospace is one of the most innovative and export-driven industries in Canada. Made up of over 700 companies, it contributes 180,000 quality jobs and adds over \$29 billion annually in GDP to Canada's economy. We continue to work toward maintaining a world-class aerospace sector, and to support an industry that is an important contributor to our economy.

One of my responsibilities as Minister of Innovation, Science and Economic Development is to help promote Canadian innovation throughout the economy, including the aerospace sector, and to encourage new investments, exports and inclusive growth. I am committed to collaborating with industry, including think tanks such as Aéro Montreal, to make this happen.

We will continue to work together to create highly skilled, well-paying jobs and to strengthen the Canadian manufacturing sector, including aerospace. I would like to thank Aéro Montréal for working over the last decade to bring together decision makers in Quebec's aerospace sector, and for bringing everyone together here today to discuss Montreal's aerospace innovation chain. Congratulations on your 10 year anniversary!

I wish you all a productive and informative forum. These are exciting times for innovation in Canada, and I look forward to the things we will accomplish in the coming year.



Navdeep Bains
Minister of Innovation, Science
and Economic Development

/ MESSAGE FROM THE PREMIER OF QUÉBEC

The aerospace industry is a source of considerable pride for Québec. Its achievements and importance, both at home and abroad, illustrate the know-how of its 40,000 qualified workers.

A driving force of economic growth and prosperity of Québec, the industry ranks first from the standpoint of Québec manufacturing exports and generates annual sales of \$15.5 billion.

Our government is currently working on a strategy designed to support the aerospace sector, which will be unveiled shortly. This commitment confirms once again our support for the industry, which is considered to be one of the most innovative, competitive and diversified in the world. The strategy will focus on reinforcing supply chains and support for innovation, the growth of the industry and the development of SMEs to ensure that Québec maintains its leadership position in the aerospace industry.

Flagship event of the International Aerospace Week – Montreal, the Aerospace Innovation Forum offers all industry stakeholders a unique opportunity to draw inspiration from innovation best practices and meet recognized prime contractors.

Such discussions will enable you to prepare the aerospace industry of tomorrow and continue to surpass yourselves to be at the forefront of the fourth industrial revolution.

I hope that this event will live up to your ambitions and I wish you a pleasant stay in beautiful Montréal, the world capital of civil aviation.



Philippe Couillard
Premier of Québec

/ MESSAGE FROM THE MINISTER OF MUNICIPAL AFFAIRS AND LAND OCCUPANCY, MINISTER OF PUBLIC SECURITY AND MINISTER RESPONSIBLE FOR THE MONTREAL REGION

Innovation is at the heart of the economic development of our metropolitan area and of Québec. Moreover, the aerospace sector is one of the most important pillars of such development.

With a workforce 40,000 strong, located mainly in the greater Montréal area, this industry contributes undeniably to the Québec economy and the economy of the metropolitan region. Recognized for its aerospace innovative chain, the greater Montréal area constitutes the third aerospace capital of the world. We are pleased to welcome to our metropolis the Aerospace Innovation Forum 2016 which brings together all the national and international actors from the aerospace industry. This is a golden opportunity for the sharing of knowledge about the most recent technological advances around the world, to discuss issues facing a constantly evolving industry and to showcase Québec excellence and know-how.

During this International Aerospace Week, this major forum is also an opportunity to highlight the strategic mobilization by Québec's aerospace cluster. I would like to take advantage of these events to praise the leadership, boldness and vision of Aéro Montréal which, for ten years, has mobilized the industry around a common vision to promote its growth and influence on the world stage.

I wish everyone a good Forum,



Martin

Minister of Municipal Affairs and Land Occupancy

Minister of Public Security

Minister responsible for the Montréal region



/ MESSAGE FROM THE MAYOR OF MONTRÉAL

I'd like to wish a warm welcome to all Aerospace Innovation Forum participants. This is the fifth presentation of this highlight of Montréal International Aerospace Week and this year's edition coincides with the 10th anniversary of Aero Montréal, Québec's aerospace cluster.

Montréal's reputation in the aerospace industry is well established and extends past our borders. Montréal is one of only three cities in the world where an airplane can be fully built. Québec's aerospace industry exports more than 80% of its production and aerospace is the province's main export sector. Here, there are more than 40,000 highly skilled workers who can meet the aerospace industry's needs.

Boasting the largest number of research centres in Canada and the second-most universities among cities in North America, Montréal is a city of knowledge and innovation. I am especially proud that Montréal is home to such specialized schools as the École des métiers de l'aérospatiale, the École nationale d'aérotechnique, the École de technologie supérieure (ÉTS), and the École Polytechnique de Montréal, to name just a few.

Montréal is the world capital of civil aviation. It is in Montreal where the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) and the Airports Council International (ACI), among others, are headquartered.

Montréal's leadership and the vitality of local stakeholders will help Montréal promote its reputation across the world.

I wish you all a wonderful Aerospace Innovation Forum, and best wishes to Aéro Montréal for its 10th anniversary.



Denis Coderre
Mayor of Montréal

Montréal 

/ PROGRAM

MONDAY APRIL 25TH, 2016

09H30 – 10H15

/ WELCOME, REGISTRATION AND CONTINENTAL BREAKFAST

10.15 AM – 10.30 AM

PLENARY - ROOM 517 D

/ WELCOMING REMARKS

Ms. Suzanne M. Benoît, President, Aéro Montréal and co-chair of the Forum

Mr. Fassi Kafyeke, Senior Director, Strategic Technology and Advanced Product Development, Bombardier, Aerospace and co-chair of the Forum

Mr. Denis Faubert, President, Consortium de recherche et d'innovation en aérospatiale au Québec (CRIAQ)

Ms. Hélène V. Gagnon, Vice President, Public Affairs and Global Communications, CAE and Chair of the the Board, Aéro Montréal

10.30 AM – 10.45 AM

PLENARY - ROOM 517 D

/ OPENING REMARKS

Mr. Martin Coiteux, Minister of Municipal Affairs and Land Occupancy, Minister of Public Security, Minister responsible for the Montréal Region

10.45 AM – 11.30 AM

PLENARY - ROOM 517 D

/ “THE FUTURE OF AEROSPACE BY 2050”

Dr. Alan Epstein, Vice President, Technology and Environment, Pratt & Whitney

Mr. Robert A. Pearce, Deputy Associate Administrator for Strategy, NASA

11.30 AM – 12.30 AM

PLENARY - ROOM 517 D

/ “COLLABORATIVE INNOVATION : NEW PATHS TOWARDS SUCCESS FOR MAJOR GLOBAL OEMS”

Moderator : Ms. Hélène V. Gagnon, Vice President, Public Affairs and Global Communications, CAE and Chair of the the Board, Aéro Montréal

Mr. Steve Dyer, Vice President, Engineering, Bell Helicopter Textron Canada

Dr. Naveed Hussain, Vice President, Aeromechanics, Boeing Research and Technology

Mr. Denis Gardin, Senior Vice President, Head of New Technology Ventures, Airbus Group

Mr. Fassi Kafyeke, Senior Director, Strategic Technology and Advanced Product Development, Bombardier, Aerospace and President, Innovation Working Group, Aéro Montréal

12.30 AM – 01.00 PM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

01.00 PM – 2.00 PM

PLENARY - ROOM 517 D

/ LUNCHEON : ARMCHAIR DISCUSSIONS

Mr. Joseph C. Anselmo, Editor-in-Chief, Aviation Week Magazine & Space Technology

Mr. Colin Bole, Senior Vice President, Sales and Asset Management, Bombardier Commercial Aircraft

Ms. Hélène V. Gagnon, Vice President, Public Affairs and Global Communications, CAE and Chair of the Board, Aéro Montréal

MONDAY APRIL 25TH, 2016

02.00 PM – 02.30 PM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

02.30 PM – 03.30 PM

PLENARY - ROOM 517 D

/ “THE FUTURE OF FLYING : ELECTRIC AIRCRAFT AND AEROSTRUCTURES”

Moderator : Ms. Dominique Sauv , Director, SA2GE

Ms. Nathalie Duquesne, Director, Research Department, Liebherr Aerospace Toulouse SAS

Mr. Emmanuel Joubert, Technical Project Leader, E-Fan, Airbus Group

Mr. Michael Dymant, Chief Executive Officer, LTA Aerostructures

03.30 PM – 04.00 PM

ROOMS 517 A AND B

/ COFFEE BREAK IN THE EXHIBITION HALL

Performance Label Award Ceremony – MACH Initiative presented by Mr. Martin Coiteux, Minister of Municipal Affairs and Land Occupancy, Minister of Public Security, Minister responsible for the Montr al Region

Participating SMEs : Amec Usinage, MF2 Aero, Sinters America, Soci t  d’outillage M.R. (SOMR), Tecnickrome A ronautique

3.30 PM TO 6.00 PM

ROOM 517 C

/ B2B MEETINGS

04.00 PM – 05.30 PM

/ FIRST WORKSHOPS SERIES (CONCURRENT SESSIONS)

1 - “MEETING THE CHALLENGES OF CYBER SECURITY AND HACKING TO INSURE SAFETY OF AIRCRAFTS AND EMBEDDED SYSTEMS”

ROOM 519

Moderator : Ms. Manon Gaudet, Industrial Technology Advisor, Cybersecurity, NRC

Mr. Laurent Porracchia, Vice President, Industry and Government, Safran-Morpho Digital Security and Authentication Division

Mr. Colin O’Flynn, CEO, NewAE

Mr. Fr d ric Audet, Project Manager, Thales Research and Technology

Mr. Jayson Agagnier, Sr. PKI Specialist, Carillon Information Security Inc.

Mr. Jeff Joyce, Principal, Critical Systems Labs Inc.

Mr. Jos  M. Fernandez, Associate professor, Department of Computer & Software Engineering,  cole Polytechnique de Montr al

2 - PITCHING SESSION OF INNOVATIVE START-UPS IN AEROSPACE

ROOM 518

Moderator : Mr. Fran ois Chopard, Founder, Starburst Innovation

Presenting Start-ups : Hyve 3D, IPR Innovation, SafetyLine, FZ Engineering, Aerostrat, Radix, Paradigm, Knowledge Solutions, Resson, Enduralock, OSM MEMBERS OF THE JURY :

H l ne de Cointet, Co-Head, Corporate Venture, Safran

Nathalie Duquesne, Director, Research Department, Liebherr Aerospace Toulouse SAS

Bertrand Florentz, Technical Director, Hutchinson

Denis Gardin, Senior Vice President, Head of New Technology Ventures, Airbus Group

Dominique Pons, President, Administrator, GIE III-V Lab, Thales

Thierry Rouge, Chief Technical Officer, Zodiac Aerospace

3 - “DEFENCE AND SECURITY MARKET : NEW BUSINESS PERSPECTIVES FOR ENTREPRISES IN CANADA”

ROOM 524

Opening Remarks : Lieutenant-General Michael J. Hood, CD, Commander, Royal Canadian Air Force

Moderator : Lisa Campbell, Associate Deputy Minister, Public Works and Government Services Canada (PWGSC)

Mr. Mike Greenley, Vice President and General Manager, CAE Canada, Military

Mr. Charles Bouchard, Chief Executive, Lockheed Martin Canada

Mr. Paul Mercier, Vice President, Business Development, Sales and Programs, L3 MAS

MONDAY APRIL 25TH, 2016

05.30 PM – 06.30 PM

ROOMS 517 A AND B

/ PRECOCKTAIL IN THE EXHIBITION HALL

06.30 PM

ROOM 517 D

/ WELCOMING COCKTAIL RECEPTION OF THE AEROSPACE INNOVATION FORUM AND VIP CELEBRATIONS OF AERO MONTREAL 10TH ANNIVERSARY

Relive the highlights of the aerospace cluster and be part of a unique cirque show by “Les 7 doigts de la main” a special creation to express the passion for aviation.

Reception Door Prize : 2 business class tickets, any destination in the world offered by Air Canada

TUESDAY APRIL 26, 2016

07.30 AM – 08.30 AM

/ WELCOME, REGISTRATION AND CONTINENTAL BREAKFAST

08.30 AM – 09.00 AM

PLENARY - ROOM 517 D

/ “VIRTUAL AND SYNTHETIC TRAINING : TOMORROW’S NEW SIMULATION FOR A MORE EFFICIENT AEROSPACE INDUSTRY”

Speaker : Mr. Marc St-Hilaire, Vice President, Technology and Innovation, CAE

09.00 AM – 10.00 AM

PLENARY - ROOM 517 D

/ “INDUSTRY 4.0 : HOW THE NEW INTERACTION BETWEEN MAN AND MACHINE IN SMART FACTORIES WILL HELP CREATE MORE INTELLIGENT PRODUCTS IN THE AEROSPACE INDUSTRY ?”

Moderator : Pr. Hany Moustapha, Director AÉRO-ÉTS, Senior Research Fellow, Pratt & Whitney Canada

Dr. Dan Schumacher, Director of the Science and Technology Director at NASA/MSFC

Mr. Simon Weeks, Chief Technology Officer, Aerospace Technology Institute, (ATI)

Mr. Stephan Biller, Chief Scientist for Manufacturing, General Electric

10.00 AM – 10.30 AM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

10.30 AM – 11.30 AM

PLENARY - ROOM 517 D

/ “RETHINKING MANUFACTURING IN THE AEROSPACE INDUSTRY: HOW COLLABORATIVE INNOVATION CAN HELP MEET THE CHALLENGES OF ADVANCED MANUFACTURING AND AUTOMATION?”

Moderator : Mr. Mike Kilfoil, Executive Director, Program Lead Factory of the Future, National Research Council of Canada (NRC)

Mr. Nicolas Aubourg, Director Research, Technology, Development, Industrialization (RTDI), Safran, and President of the Competitiveness Cluster ASTech Paris Region

Mr. Alan Newby, Executive Vice President, Engineering and Technology, Strategy and Future Programs, Rolls Royce

TUESDAY APRIL 26, 2016

11.30 AM – 12.00 PM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

12.00 PM – 01.00 PM

PLENARY - ROOM 517 D

/ LUNCHEON CONFERENCE

“WHAT’S NEW AT THE CANADIAN SPACE AGENCY”

Presentation by : **Mr. Sylvain Laporte**, President, Canadian Space Agency

“ROCKING THE SHIP: HOW NEWCOMERS LIKE SpaceX AND BLUE ORIGIN ARE SHAKING UP THE AEROSPACE INDUSTRY?”

Presentation by : **Mr. Warren Ferster**, Consultant, Space Industry and former Editor-in-Chief, Space News

01.00 PM – 01.30 PM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

01.00PM TO 04:30PM

ROOM 517 C

/ B2B MEETINGS

01.30 PM – 02.30 PM

/ SECOND WORKSHOP SERIES (CONCURRENT SESSIONS)

1 “ADVANCED MANUFACTURING RESEARCH CENTRES : KEY PLAYERS TO BOOST INNOVATIVE SMEs COMPETITIVENESS”

ROOM 519

Moderator : **Mr. François Chopard**, Founder, Starburst Innovation

Pr. Hervé Morvan, Director, Institute for Aerospace Technology, University of Nottingham

Mr. Yves Proteau, Co-President, APN

Mr. Ted Brezina, Manager, Business Development, Advanced Manufacturing Research Centre with Boeing

2 - “VIRTUAL TECHNOLOGIES AT THE SERVICE OF MANUFACTURING, MODELING AND PROCUREMENT IN THE AEROSPACE INDUSTRY”

ROOM 518

Moderator : **Mr. Mahmoud Attia**, Team Leader, Advanced Material Removal Process, Materials and Manufacturing Laboratory, Aerospace Structures, National Research Council of Canada (CNRC)

Pr. Yusuf Altintas, Chairholder, NSERC-Pratt & Whitney Industrial Research Chair in Virtual High-performance Machining, University of British Columbia

Mr. Andrew Fernie, Senior Technical Fellow, Technology and Innovation, CAE

Mr. Frédéric Guarino, Founder, Virtual Reality Valley

3 -“SUCCESSFULLY MANAGING THE RISK OF FIRST USE OF INNOVATIVE PRODUCTS : THE GATEWAY TO SUCCESS FOR INNOVATIVE SMEs”

ROOM 524

Moderator : **Mr. Simon Weeks**, Chief Technology Officer, Aerospace Technology Institute, (ATI)

Mr. Frédéric Loiseau, Director, Aerospace Solutions, Business Development Bank of Canada (BDC)

Mr. Peter Rosenthal, Industrial Technology Advisor, Industrial Research Assistance Program (IRAP), National Research Council of Canada (NRC)

Mr. John Maris, President, Marinvent Corporation

Mr. Lorenzo Marandola, President, M1 Composties

TUESDAY APRIL 26, 2016

02.30 PM – 03.00 PM

ROOMS 517 A AND B

/ BREAK IN THE EXHIBITION HALL

03.00 PM – 04.30 PM

/ THIRD WORKSHOP SERIES (CONCURRENT SESSIONS)

1 -“UAV INDUSTRY : CROSS-PERSPECTIVE ON REGULATION BETWEEN CANADA AND EUROPE AND NEW BUSINESS OPPORTUNITIES”

ROOM 519

Moderator : Mr. Frank Lepeqcq, Manager R&T Projects, MRO, UAVs and Telecommunication, Aerospace Valley

Mr. Marc Moffatt, CEO, Unmanned Aerial System Centre of Excellence, (CED)

Mr. Sébastien Long, Sales Manager, Flyterra
Audrey Pann, Sales Manager, R&Drone

2 - “HOW TO HELP SMEs TO BOOST THEIR COMPETITIVENESS BY EMBRACING ADDITIVE MANUFACTURING?”

ROOM 518

Moderator : Mr. Éric Boulé, Executive Director, Manufacturing, Pratt & Whitney Canada

M. Olivier Marcotte, Complex Automation Expert, Centre de recherche industrielle du Québec (CRIQ)

Dr. Franz Josef Kirschfink, Managing Director, Hambourg Aviation
Mr. Cyrille Chanal, CEO, Fusia

Mr. Laurent Manach, Director, EMC2 Industrial Cluster for Advanced Manufacturing

3 -“HOW TO LEVERAGE COLLABORATIVE INNOVATION BETWEEN CANADA AND THE USA IN THE AEROSPACE INDUSTRY?”

ROOM 524

Moderator : Mr. Fassi Kafyeke, Senior Director, Strategic Technologies and Advanced Product Development, Bombardier, Aerospace

Mr. Denis Faubert, CEO, Consortium for Aerospace Research and Innovation in Canada (CARIC) and CEO, Consortium for Research and Innovation in Aerospace in Quebec (CRIAQ)

Pr. Dimitri Mavris, Boeing Professor of Advanced Aerospace Systems Analysis, Georgia Tech School of Aerospace Engineering

Pr. Meyer Benzakein, Assistant Vice President, Aerospace Aviation, Ohio State University

Pr. Yusuf Altintas, Titulaire, Chaire de recherche industrielle CRSNG-Pratt & Whitney en usinage virtuel à haut rendement, University of British Columbia

04.30 PM – 05.00 PM

PLENARY - ROOM 517 D

/ “ADVANCED AEROSPACE TECHNOLOGY APPLICATIONS AND INDUSTRY 4.0.”

Speaker : Mr. Thomas Scarinci, Head of Engineering, Core Engineering, Siemens

05.00 PM

ROOMS 517 A AND B

/ CLOSING COCKTAIL IN THE EXHIBITION HALL
