



**BEYOND THE
BARRIERS**

Building the
Ontario Aerospace
R & T Community



Preliminary Agenda

4th Annual OAC Research & Technology Event March 20 & 21, 2019 Toronto Airport Marriott

DAY 1 – Wednesday March 20 – 2 Full Day Workshops Offered

The F Word – How to Prepare a Compelling Funding Proposal

Workshop Champion: Craig McClelland, Senior Analyst, Industrial Development FedDev for Southern Ontario

Experts from national and regional funding programs will share strategies and advice on how best to prepare a project proposal. Panelists & Workshop Leaders include: FedDev Ontario, Canadian Space Agency, Mitacs, NRC-IRAP, DRDC – IDEaS, NGen, NSERC

8:00 – 8:30 am	Arrival & Registration - Continental Breakfast Buffet
8:30 – 8:40 am	Opening Remarks
8:40 - 10:00 am	Introduction to Funding Opportunities - Presentations & Panel Discussion
10:00 – 10:15 am	Networking Break
10:15 – 11:15 am	Workshop: Defining Your Project
11:15 – 12:15 pm	Workshop: Context – Alignment of Benefits & Priorities
12:15 – 1:15 pm	NETWORKING LUNCH
1:15 – 2:30 pm	Application Fails – What to Avoid - Panel Discussion
2:30 – 2:45 pm	Networking Break
2:45 – 4:15 pm	Workshop: Preparing a Compelling Project Summary
4:15 – 4:30 pm	Closing Remarks

In order to maximize the benefit received from this workshop, participants are asked to come prepared with a completed/public project in mind that can be discussed openly during the workshop and used to create your project summary.



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Additive Manufacturing (AM) In Aerospace

Workshop Champion: Peter Adams, CEO, Burloak Technologies

Our expert panels and presenters for this “game-changing” technology represent leaders in this sector: Burloak Technologies, EOS, GE Additive, Renishaw, Siemens, Javelin, Transport Canada, Safran, Pratt & Whitney, MHI Canada, MDA, Magellan and Carpenter Technologies.

8:00 – 8:30 am	Arrival & Registration - Continental Breakfast Buffet
8:30 – 8:45 am	Opening Remarks & Welcome
8:45 – 9:30 am	Material Development for AM
9:30 – 10:00 am	Digital Thread – from Design to Simulation
10:00 – 10:15 am	Networking Break
10:15 – 10:45 am	Certification – A Transport Canada View
10:45 – 11:15 am	Developing an AM Strategy
11:15 – 11:45 am	AM Technology Insight – Powder Bed AM
11:45 – 12:15 pm	AM in Space
12:15 – 1:00 pm	Networking Lunch
1:00 – 1:30 pm	AM Technology Insight – Directed Energy
1:30 – 2:00 pm	CNC Machining & the Impact of AM
2:00 – 2:45 pm	AM in Aviation – Applications & Challenges
2:45 – 3:00 pm	Networking Break
3:00 – 3:20 pm	Digital Thread – Materials Traceability
3:20 – 4:00 pm	AM Technology Insight – Plastics in Aerospace
4:00 – 4:30 pm	Metrology & Material Testing in AM
4:30 – 4:40 pm	Closing Remarks

DAY 1 – Wednesday March 20 (cont'd)

4:30 – 6:30 pm	Meet Canada's Next Generation of Innovators University/College AeroPoster Session & Tier 1 Networking Reception
6:30 - 8:30 pm	Tier 1 Networking Dinner



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COMPANIES ATTENDING INCLUDE: Bombardier, Celestica, Collins Aerospace, Diamond Aircraft, Magellan Aerospace, MDA, MHI Canada Aerospace, Pratt & Whitney Canada, Safran Landing Systems

Day 2 – Thursday March 21

8:00 – 8:30 am Arrival & Registration - Continental Breakfast Buffet

8:30 – 8:45 am Opening Remarks

8:45 – 10:00 am **Winning Strategies for a New Space Economy**
Panel Champion: Troy Johnson, Business Dev. Manager, MDA

The new Space Economy is seeing significant shifts and disruption in traditional markets from communication, launching and space exploration. Characteristics of this disruption includes:

- Increasing number of commercial companies and SMEs bringing value propositions that are dramatically disruptive in terms of cost and performance
- Large number of these new players include both companies and governments from emerging space economies
- Significant sources of funding evidenced to support new ventures

Day 2 – Thursday March 21 (cont'd)

Winning Strategies for a New Space Economy (cont'd)

- Government space agencies are increasing looking to commercial enterprises to take over many of government traditional roles

In addition to disrupting traditional OEMS and operators, this shift and growth has also put significant pressure on supply chain in terms of volume cost and performance of components. This has been enabled and similarly driven by advances in technology and manufacturing processes such as Additive Manufacturing. This panel will look at the challenges and opportunities related to the new space economy and how companies can survive and thrive in this new era.

10:00 – 10:30 am Networking Break

10:30 – 12:30 pm **The Collaboration Equation**
= Industry x Academia x Funding
Panel Champion: Marlene Conway-Diels, Regional Director, CARIC



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It takes industry, researchers and funding to launch a project. Join us as we hear from collaborators on three on-going and successful projects:

Global Standard Amendment – Shot Peen Media

International project with Safran, MHI Canada Aerospace, Saint Gobain, Curtiss Wright, Ryerson, Carleton, NSERC

Smart Shim – Self Powered Sensing, Data Capture & Transmission

DPHM, Shimco, University of Waterloo, NSERC, CARIC, OCE, NRC-IRAP

Enhanced Security & Biometrics

Greater Sudbury Airport, University of Windsor IDIR Institute, NSERC, CARIC, OCE.

Discussions will focus on lessons learned, highlighting what went well, the challenges, “wish we’d known” from project participants.

Day 2 – Thursday March 21 (cont'd)

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| 12:30 – 1:45 pm | Networking Lunch |
| 1:45 – 3:00 pm | Digital Thread & Cyber Security
Details coming soon.... |
| 3:00 – 3:45 pm | Build your “Collaboration Equation” Networking Break
<i>- by answering a few short questions, let us help you connect with potential partners for your collaboration. The short questionnaire will be supplied upon your registration for the event.</i> |
| 3:45 – 4:15 pm | Ways to Engage
- New Funding Opportunities/Programs
- The Incubator Program |
| 4:15 – 4:25 pm | Closing Remarks |