



FOURTH ANNUAL OAC RESEARCH & TECHNOLOGY EVENT

MARCH 20 & 21, 2019

TORONTO AIRPORT MARRIOTT HOTEL

DAY 1

WEDNESDAY, MARCH 20 – *The F Word: How to Prepare a Compelling Funding Proposal*

Workshop Champion & Moderator:

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.

8:00–8:30 a.m. Arrival and Registration – Continental Breakfast Buffet

8:30–8:40 a.m. Opening Remarks – Stewart Cramer, **OAC R&T Committee Chair**
Welcome – Craig McClelland, Senior Analyst, **Industrial Development FedDev for Southern Ontario**

8:40–10:00 a.m. **Introduction to Funding Opportunities**

Presentations and Panel Discussion

- Marie-Josée Potvin, Development Program Manager for Space Science and Technology, **Canadian Space Agency**
- Eric Fournier, Director General (Science & Technology) for Strategic Decision Support, **DND-IDEaS**
- Laura Chan, Senior Business Development Officer, **FedDev Ontario**
- Rebecca Bourque, Director of Strategic Accounts & Business Development, **Mitacs**
- Jayson Myers, CEO, **NGen (Next Generation Manufacturing Canada)**
- Manfred Vormbaum, Industrial Technology Advisor, **NRC-IRAP**
- John Jackson, Research & Innovation Development Officer, **NSERC**

10:00–10:15 a.m. **Networking Break**

10:15–11:15 a.m. **Workshop: Defining Your Project**



- 11:15–12:15 p.m. **Workshop: Context – Alignment of Benefits and Priorities**
- 12:15–1:15 p.m. **Networking Lunch**
- 1:15–2:30 p.m. **Application Fails – What to Avoid**
Panel Discussion
- 2:30–2:45 p.m. Networking Break
- 2:45–4:15 p.m. **Workshop: Preparing a Compelling Project Summary**
- 4:15–4:30 p.m. Closing Remarks – Phil Arthurs, **OAC R&T Committee Co-Chair**
- 4:30–6:30 p.m. **Meet Canada’s Next Generation of Innovators**
University/College AeroPoster Session and Tier 1 Networking Reception
- 6:30–8:30 p.m. **Tier 1 Networking Dinner**
Companies attending include: Airbus, Bombardier, Celestica, Collins Aerospace, Diamond Aircraft, Magellan Aerospace, MDA, MHI Canada Aerospace, Pratt & Whitney Canada, Safran Landing Systems

DAY 1

WEDNESDAY, MARCH 20 – *The Future of Aerospace: Additive Manufacturing Workshop*

Workshop Champion: Peter Adams, CEO, Burloak Technologies

Moderator: Jonathan Hack, Strategic Technology & Intellectual Property Lead, Bombardier

Learn and exchange with subject matter experts and leaders of this “game-changing” technology as they discuss developing an AM strategy, materials, application and challenges in aerospace, certification and the impact of AM to traditional CNC shops.

- 8:00–8:30 a.m. Arrival and Registration – Continental Breakfast Buffet
- 8:30–8:45 a.m. Opening Remarks – Moira Harvey, Executive Director, **OAC**
Welcome – Peter Adams, CEO, **Burloak Technologies**



- 8:45–9:30 a.m. Material Development for AM Panel**
- Dr. William Herbert, Director AM Technologies, **Carpenter Technology Corporation**
 - Dr. Brandon Bouwhuis, Aerospace Products Manager, **Burloak Technologies**
 - Gianni Panfili, AM Manager, **Siemens**
- 9:30–10:00 a.m. Digital Thread – from Design to Simulation**
- Fabian Sanchez, Additive Manufacturing Design Technology Lead, **Siemens**
- 10:00–10:15 a.m. Networking Break**
- 10:15–10:45 a.m. Pathway to Certification**
- Marco Mariotti, Aircraft Airworthiness Certification Engineer, **MMi**
- 10:45–11:15 a.m. Developing an AM Strategy Panel**
- Dr. Greg Hayes, Director of Applications & Consulting, **EOS**
 - Peter Adams, CEO, **Burloak Technologies**
 - Dr. William Herbert, Director AM Technologies, **Carpenter Technology Corporation**
- 11:15–11:45 a.m. AM Technology Insight – Powder Bed AM Panel**
- Dr. Greg Hayes, Director of Applications & Consulting, **EOS**
 - Mark Kirby, Business Manager AM, **Renishaw**
 - Dave Emmett, Technical Sales Lead, **GE Additive**
- 11:45–12:15 p.m. AM in Space**
- Gerard Senechal, Manager of Mechanical Products for Space, **MDA**
- 12:15–1:00 p.m. Networking Lunch**
- 1:00–1:30 p.m. AM Technology Insight – Directed Energy**
- Dr. Brandon Bouwhuis, Aerospace Products Manager, **Burloak Technologies**
 - Dr. William Herbert, Director AM Technologies, **Carpenter Technology Corporation**
- 1:30–2:00 p.m. CNC Machining and the Impact of AM**
- Mark Kirby, Business Manager AM, **Renishaw**



- 2:00–2:45 p.m. **AM in Aviation – Applications and Challenges Panel**
- Dave Emmett, Technical Sales Lead, **GE Additive**
 - Mathieu Fagnan, Enterprise Manager AM Technology, **Pratt & Whitney Canada**
 - Kirk Bucknor, Metallurgist, **Safran Landing Systems**
 - Dr. Raj Thamburaj, Director, Advanced Engineering, **Magellan Aerospace**
- 2:45–3:00 p.m. **Networking Break**
- 3:00–3:20 p.m. **Digital Thread – Materials Traceability**
- Dr. William Herbert, Director AM Technologies, **Carpenter Technology Corporation**
 - Dave Emmett, Technical Sales Lead, **GE Additive; AP&C**
- 3:20–4:00 p.m. **AM Technology Insight – Plastics in Aerospace Panel**
- Dr. Greg Hayes, Director of Applications & Consulting, **EOS**
 - James Janeteas, President, **Cimetrix**
- 4:00–4:30 p.m. **Metrology and Material Testing in AM Panel**
- Hamid Azizi, Engineering Manager, **Burloak Technologies**
 - Jeff Reid, Product Manager – Carl Zeiss Industrial Metrology, **Elliott Matsuura Canada Inc.**
 - Dr. Raj Thamburaj, Director, Advanced Engineering, **Magellan Aerospace**
- 4:30–4:40 p.m. **Closing Remarks**
- Jonathan Hack, Strategic Technology & Intellectual Property Lead, **Bombardier**
 - Stewart Cramer, **OAC R&T Committee Chair/Board Member**

DAY 2

THURSDAY MARCH 21 – *Research and Technology Conference and Trade Show*

- 8:00–8:30 a.m. Arrival and Registration – Continental Breakfast Buffet
- 8:30–8:45 a.m. Opening Remarks
- Moira Harvey, Executive Director, **OAC**
 - Stewart Cramer and Phil Arthurs, **OAC R&T Committee Co-Chairs**



8:45–10:00 a.m. **Winning Strategies for a New Space Economy**

Panel Champion: Troy Johnson

Panel Moderator: Marie-Josée Potvin, Development Program Manager for Space Science and Technology, Canadian Space Agency

Panelists:

Wen Cheng Chong, Co-Founder CTO, **Kepler Communications**

Dr. Robert Zee, Director, **UTIAS Space Flight Laboratory**

Philip Berthiaume, Founder, **Space Horizon**

Robin Chhabra, Canada Research Chair in Autonomous Space Robotics & Mechatronics, Director of Autonomous Space Robotics and Mechatronics Laboratory, **Carleton University**

Daniel Schulten, Launch Pad Director, **MDA Corporation**

Brandon Bouhuis, Engineering Manager, **Burloak Technologies**

Tony Stajcer, Senior Director of Satellite Payload Products, **Honeywell**

10:00–10:30 a.m. **Networking Break**

10:30–12:15 p.m. **The Collaboration Equation = Industry x Academia x Funding**

**Panel Champion and Moderator: Marlene Conway Diels, Regional Director, CARIC
John Jackson, Research & Innovation Development Officer, NSERC**

It takes industry, researchers and funding to launch a project. Join us as we hear from representatives from three on-going and successful projects reflecting on what went well in their Collaboration Equation, what they wished they'd known, lessons learned and best practices.

Global Standard Amendment – Shot Peen Media

Joseph Lan, Research and Technology Program Manager, **Safran**

Alex Tsoulis, Senior Manager of Product Definition, **MHI Canada Aerospace**

Abu Syed Kabir, Assistant Professor Mechanical & Aerospace Engineering, **Carleton University**

Smart Shim – Self Powered Sensing, Data Capture and Transmission

Peter Voss, President & CEO, **Shimco**

Dayan Ban, Associate Professor in Electrical & Computer Engineering, **University of Waterloo**

Yves Richard, Industrial Technology Advisor, **NRC IRAP**

Enhanced Security and Biometrics

Jean-Mathieu Chenier, Director, Marketing, Airport Excellence & Innovation, **Greater Sudbury Airport**

Dr. Aryaz Baradarani, **University of Windsor IDIR Institute**



12:15–1:30 p.m. **Networking Lunch**

1:30–2:45 p.m. **Digital Thread and Cyber Security**

Moderator: Stewart Cramer, S. Cramer Consulting

Panelists:

Hitesh Talati, Vice President & General Manager, **FTG Circuits**

Dr. Raj Thamburaj, Director Advanced Engineering, **Magellan Aerospace**

Martin Peeters, Manager Research & Technology: Numerical Methods, **Pratt & Whitney Canada**

Fabien Sanchez, Additive Manufacturing Design Technology Lead, **Siemens**

Doug Blakey, CEO & Founder, **Watsec Cyber Risk Management**

2:45–3:30 p.m. **Build your “Collaboration Equation” Networking Break**

3:30–4:30 p.m. **Ways to Engage**

Moderator: Bernadeen McLeod, President, Mentor Works

Gain insight into new programs and funding opportunities.

Daniel Schulten, LaunchPad Director, **MDA Corporation**

Rebecca Bourque, Director of Strategic Accounts & Business Development, **Mitacs**

John Jackson, Research & Innovation Development Officer, **NSERC**

John Laughlin, Chief Technology Officer, **NGen (Next Generation Manufacturing Supercluster)**

Richard Worsfold, Director Business Development, **OCE**

Craig McClelland, Senior Analyst, **Industrial Development FedDev for Southern Ontario**

4:30–4:45 p.m. Closing Remarks – Stewart Cramer and Phil Arthurs, **OAC R&T Committee Co-Chairs**

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