



# the canadian space commerce association

an industry group to promote and support canadian businesses

Gold Sponsors:



## The Next Breakthrough Space Technologies for Canada

The 2011 CSCA Conference and AGM  
Friday, March 18, 2011

Bronze Sponsor:



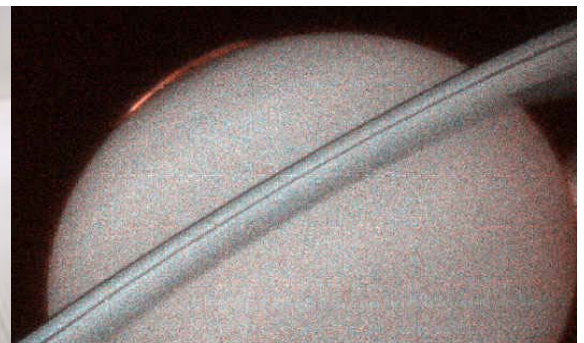
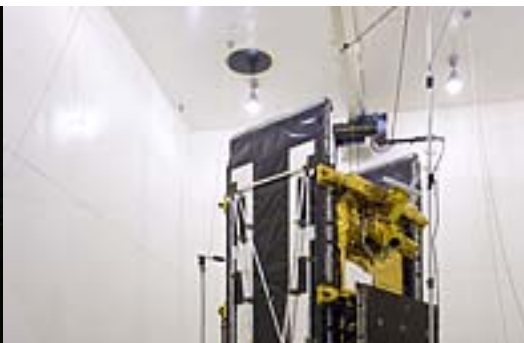
At the  
MaRS Discovery District

Media Sponsor:



101 College Street,  
CR3 Seminar Room  
Toronto, ON M5G 1L7

Registration available online at  
<http://spacecommerce2011.eventbrite.com/>



**Who Should Attend.**

- **Executives, business owners and independent consultants** focused on enhancing the global competitiveness of Canadian space and aerospace focused businesses.
- **Venture capitalists, SR&ED credit financing firms** and others wanting to know more about commercial opportunities available now through Canadian scientists, academics and engineers.
- **Scientists, engineers, industrial R&D managers and other individuals** with an interest in the intersection of policy, technology and business.

**the canadian space commerce association**  
an industry group to promote and support canadian businesses

## **The Next Breakthrough Space Technologies for Canada**

### **2011 CSCA ANNUAL GENERAL MEETING**

Toronto, Ontario  
Friday, March 18, 2011

At the  
MaRS Discovery District  
CR-3 Seminar Room  
101 College Street  
Toronto, ON M5G 1L7

There are a lot of robots aboard the International Space Station (ISS) these days but only one of them is our iconic and Canadian built CanadArm.

The Japanese Aerospace Exploration Agency (JAXA) has the JEM RMS and the Small Fine Arm (SFA) while the European Space Agency (ESA) makes do with the European Robotic Arm (ERA) and the Russian's use Strela, a manually operated robotic device. Even General Motors has Robonaut II, built in collaboration with the National Aeronautics and Space Administration (NASA) under an agreement to develop "robotic assistants" for both astronauts and GM manufacturing plant employees.

Given the above, does Canada still enjoy that historic lead in robotics we once used as leverage for Canadian astronaut trips aboard 13 NASA and two Soyuz manned missions over the last two decades?

Perhaps it's time to assess the evolving landscape. What opportunities are there for Canadian businesses looking to leverage technical expertise on the world stage? What are the next "breakthrough" technologies that will allow us continue to "punch above our weight" in the international arena? Should we be looking at Martian rovers, or electrical propulsion technology or a next generation Canadarm (perhaps optimized for in-orbit servicing) or new devices for measurement and detection?

Or is there perhaps something else on the horizon that we should be aware of?

# Speakers and Agenda

## Registration (8:00 – 8:55 am)

8:55 – 9:00 am **Chuck Black** – Treasurer, [Canadian Space Commerce Association](#).  
**Our Next Breakthrough Space Technologies.**

9:00 – 9:40 am **Josh Dore** – Technology Development Officer, [Canadian Space Agency](#).  
**Commercializing Space Technologies.**

9:40 – 9:55 am **Arny Sokoloff** – President, [Canadian Space Commerce Association](#).  
**Why a “Canadian” Space Commerce Association?**

9:55 – 10:20 am **Grant Bonin** – Program Manager, [UTIAS Space Flight Laboratory](#).  
**Breakthrough Space Technologies and the “Microsat Way” in Canada**

## Break (10:20 – 10:35 am)

10:35 – 11:00 am **Dr Gordon Osinski** – NSERC/MDA/CSA Industrial Research Chair in Planetary Geology,  
[The University of Western Ontario](#).  
**Future Exploration Technologies and Techniques: An Academic’s Perspective.**

11:00 – 11:25 am **Dr. Andrew Goldenberg** – President [Engineering Services Inc.](#)  
**The Next Generation of Canadian Robotics.**

11:25 – 11:50 am **Maj. Marc Fricker** – Lecturer, [Royal Military College](#)  
**Canada’s Military Program. Present and Future Technologies** (via videoconference).

11:50 – 12:10 am **Start-Up Liftoff** – Three speakers on the topic of their start-up commercial space venture modeled on the format of the O’Reilly’s [Ignite Talks](#) under the motto “**Enlighten Us, But Make It Quick!**”

## Lunch (12:10 – 1:10 pm)

1:10 – 1:50 pm **Frank Teti** – Manager of Autonomous Robotics, [MacDonald Dettwiler](#)  
**Enhancing On-orbit Assets through Servicing and Orbital Debris Mitigation.**

1:50 – 2:15 pm **Olivier Daigle** – VP Research and Development, [Nüvü Camēras Inc.](#)  
**The Darkest Camera in Canada and Why NASA Just Had to Buy It.**

2:15 – 2:40 pm **Ron Holdway** – VP of Government Relations, [Com Dev International](#).  
**Canadian Advanced Life Support System (CanALSS).**

## Break (2:40 – 2:55 pm)

2:55 – 3:20 pm **Joshua Brost** – Manager of Business Development, [Space Exploration Technologies](#) (Space-X).  
**Space-X: Revolutionizing Access to Space.**

3:20 – 3:45 pm **Wilfred So** – Patent Agent, [Blake, Cassels and Graydon LLP](#).  
**Protecting Intellectual Property.**

3:45 – 4:10 pm **Steve Boehinger** – President, [EuroconsultNA Inc.](#)  
**The Canadian Space Sector within the International Landscape.**

4:10 – 4:55 pm **Panel Discussion.**

## Closing remarks and questions (4:55 – 5:00 pm)

# the canadian space commerce association

an industry group to promote and support canadian businesses

From 7:00 to 9:00 pm on March 18<sup>th</sup>, 2011, the Canadian Space Commerce Association will retire to our AGM and dinner at Scallywags, 11 St. Clair Avenue West, Toronto.

We're steps from the corner of Yonge and St. Clair.

We Hope to See You There.



# the canadian space commerce association

an industry group to promote and support canadian businesses

## Costs for the 2011 CSCA conference and AGM

The 2011 Canadian Space Commerce Association Conference and AGM fees include 2011 membership in the CSCA.

- \$200 CDN standard registration** fee per person for the one day conference.
- \$150 CDN early bird registration** fee per person for the one day conference if registered before March 1<sup>st</sup>, 2011.
- \$50 CDN standard registration** fee per person with current registered student ID.

## For more information please contact:

Chuck Black c/o  
The Canadian Space Commerce Association  
12 Rivercrest Road  
Toronto, Ontario, M6S 4H3

Or call 416-569-7697

Our Website is at <http://spacecommerce.ca/>.

Registration available online at <http://spacecommerce2011.eventbrite.com/>.