



ASTRO 2020

20th Astronautics Conference
20^e conférence en astronautique
Westin Toronto Airport Hotel

Space for business

L'espace pour les affaires

May 26-28 mai 2020

Call for Abstracts

ASTRO 2020 is the 20th astronautics conference of the Canadian Aeronautics and Space Institute. CASI ASTRO conferences are renowned for offering unparalleled opportunities to delegates from industry, academia, defence and security, and government to meet and network with space sector colleagues from Canada and around the world.

The theme of ASTRO 2020 is 'Space for Business'. The conference will focus on Canadian capabilities especially with regard to the growing number of small- and medium-sized enterprises. The conference will seek to identify prospects for growth domestically and in the international space arena.

ASTRO 2020 is being held at the Westin Toronto Airport Hotel from Tuesday 26 May through Thursday 28 May.

Co-Chairs of the ASTRO 2020 Technical Committee are Michele Faragalli (Mission Control Space Services) and Phil Ferguson (University of Manitoba).

Conference Highlights

Plenary Sessions An exciting program will feature invited Canadian and international speakers. Attendees will hear presentations by senior representatives of Canadian industry and academic organizations and Canadian government officials, as well as international space sector representatives. Speakers will explore ways that Canadian organizations can achieve their goals and participate more fully in the international space marketplace, detailing specific opportunities open to Canadian enterprises.

Technical Sessions Several parallel oral presentation tracks will be offered, as well as a robust Interactive (Poster) session.

Workshop - Space Situational Awareness (SSA) and Space Domain Awareness (SDA) This full-day workshop on Monday May 25th focusses on Canadian matters pertaining to safe space operations and space security. A separate registration fee will cover all Workshop activities, networking breaks and lunch.

Language of the Conference The language of ASTRO 2020 is English. Please note that no translation services will be provided.



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Presentation Topics

Presentations are invited that expand upon subjects related to the business of space including:

- Advanced space technologies – sensors, materials, robotics, launchers, artificial intelligence
- Advances in telecommunications
- Commercial missions - concepts, developments and status
- Commercial space exploration
- Commercialization-focussed partnerships among industry, academia and government
- Competitions & student programs
- Downstream market and applications – communications, security, ground stations, analysis
- Earth observation, remote sensing
- Green engineering
- Humans in space – physiological, psychological, treatment issues
- Lunar ISRU – enabling technologies, market obstacles and opportunities
- On-orbit servicing, debris removal
- Smallsats, nanosats and cubesats
- Space exploration, space science, planetary science
- Space materials and structures
- Space regulatory environment, space policy, space law
- Space situational awareness, space domain awareness
- Sub-orbital platforms – sounding rockets, high-altitude pseudo-satellites

Interactive Session and Exhibition A stand-alone Interactive (Poster) session will be held during which delegates will have the opportunity for one-on-one discussions with the authors of the presentations. The Interactive session will take place in the same area as the Exhibition. Interactive presentations will be an important feature of ASTRO 2020 and will be given special attention.

Awards The J. Saber Award will be presented for the best oral or interactive presentation by any author, and the Best Student Presentation Award will recognize the best oral or interactive presentation by a student.

CASJ special issue A Special Issue of the *Canadian Aeronautics and Space Journal* will include selected papers that expand upon the presentations given during ASTRO 2020. More information will be available as the Conference approaches.



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Important Dates

	<u>2020</u>
Abstract submission deadline	31 January
Authors notified	13 February
Early Bird registration deadline	24 April
Westin Hotel ASTRO 2020 conference rate deadline (\$176 per night)	5 May
ASTRO 2020 Space Situational/Domain Awareness Workshop	25 May
ASTRO 2020 conference	26-28 May
Manuscript submission deadline for Proceedings	26 June

Abstract Submission Guidelines

All participants in the technical program are required to submit an abstract.

The abstract **MUST**:

- Be a maximum of 300 words long
- Indicate a preference for an oral or an interactive presentation, and also whether an interactive presentation will be acceptable
- Include a header with the following data:
 - Title of the abstract
 - Name(s) of author(s) and their affiliation(s)
 - Corresponding author coordinates (name indicated with an asterisk)
- Be submitted by means of the abstract submission tool on the ASTRO 2020 web site casi.ca/ASTRO-2020-Conference.

Proceedings

Authors will be invited to have their presentations included in the Proceedings of ASTRO 2020, and also to submit extended abstracts or full papers on their topics. Details will be provided to authors together with confirmation of acceptance of abstracts.



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Presentations

Oral Authors will have 15 minutes for the presentation followed by 5-7 minutes for questions and answers.

Interactive The Interactive session is based on the familiar 'poster session' concept. ASTRO 2020 will significantly improve on the visibility, impact and value of this session. It will be located together with the networking break refreshments in a high-traffic area of the conference venue, and it will be given its own place in the conference program with no other activities scheduled at the same time. The Interactive session will be promoted from the podium during the morning plenary panels, and all the Interactive presentations will be included in the conference Proceedings. The ASTRO 2020 Interactive session will reinvent the outmoded 'poster' concept, offering these presentations a uniquely high-profile role in the program.

Presentations will be installed prior to the start of ASTRO 2020 and should be left on display until noon on Wednesday 28 May. Authors will be required to attend their presentations during the time exclusively set aside for the Interactive session.

Registration

Registration is available on-line on the CASI web site. **All participants are required to register for ASTRO 2020** and are responsible for the expenses related to their participation in the conference, including the cost of registration. A Letter of Invitation will be provided upon request.

Space Situational/Domain Awareness Workshop attendees will register separately for this full-day event that will be held on Monday 25 May.

Hotel reservations

A limited number of rooms has been set aside at the Westin Toronto Airport Hotel at the special conference rate of CAN \$176 per night. This rate is offered until **5 May, 2020** and is subject to availability. Participants are **strongly encouraged** to reserve as soon as possible. Reservations may be made via the link on the CASI web site or by calling the Hotel (1-866-837-4262) and mentioning **CASI ASTRO 2020**.