



ASTRO 2022

22nd Astronautics Conference
22^e conférence en astronautique
Hotel Delta Montréal

Pushing boundaries

Repousser les limites

Nov 1-3 nov 2022

Call for Abstracts

ASTRO 2022 is the 22nd astronautics conference of the Canadian Aeronautics and Space Institute. CASI ASTRO conferences offer unparalleled opportunities for delegates from industry, academia, defence and security, and government to meet and network with space sector colleagues from Canada and around the world.

ASTRO'22 is being held on-site at the Delta Hotels by Marriott Montréal from Tuesday 1 November through Thursday 3 November.

The theme of ASTRO'22 is '*Pushing boundaries / Repousser les limites*'. The conference will focus on Canadian capabilities with emphasis on research and development being done at small/medium-sized businesses and within academic and government institutions. Investment programs targeted at the Canadian space sector also will be highlighted.

Co-Chairs of the ASTRO'22 Technical Committee are Dr. Philip Ferguson (University of Manitoba) and Dr. Michele Faragalli (Mission Control Space Services).

Conference Highlights

On-site conference! ASTRO'22 heralds a return to normalcy and a long-awaited opportunity for delegates to renew existing contacts and to make new ones with customers, suppliers and collaborators!

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 tracks will accommodate a technical program that is expected to include about 100 presentations on a wide variety of subjects – some suggestions are listed below. Particular focus will be placed on space system resilience and on the legal and regulatory issues related to space activities.



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Presentation Topics

Presentations are invited that explore subjects related to the full spectrum of Canadian capabilities in space, including:

- Advanced space technologies – sensors, materials, robotics, launchers, AI
- Advances in telecommunications
- Commercial missions - concepts, developments and status
- Commercial space exploration
- Commercialization-focussed partnerships among industry, academia and government
- Competitions & student programs
- Downstream markets 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
- Regulatory environment, space policy, space law
- Satellite constellations
- Smallsats, nanosats and cubesats
- Space debris mitigation
- Space exploration, space science, planetary science
- Space materials and structures
- Space situational awareness, space domain awareness
- Space system resilience
- Sub-orbital platforms – sounding rockets, high-altitude pseudo-satellites

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

Canadian Aeronautics and Space Journal A Special Issue of *CASJ* will include selected papers that expand upon the presentations given during ASTRO 2022. More information will be available as the Conference approaches.



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Important Dates

	2022
Abstract submission deadline	19 July
Authors notified	9 August
Early Bird registration deadline	3 October
ASTRO 2022 conference	1-3 November
Manuscript submission deadline for <i>CASJ</i> Special Issue	17 December

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 in an editable file format – MS Word is preferred
- 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 as an email attachment to AstroSubmissions@casi.ca

See the **Instructions for Authors** on the ASTRO'22 web page for more information

Submission of Full Papers

Authors who wish to do so are invited to submit full papers to the *Canadian Aeronautics and Space Journal* for review and potential publication in a special issue focussed on ASTRO'22. Details will be provided to authors together with confirmation of acceptance of abstracts.



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Presentations

A technical session is 90 minutes long and will accommodate four to five presentations. The number of abstracts approved for presentation, the way topics are combined into a single session and other factors will determine presentation length – from 15 to 20 minutes – followed by audience discussion and questions and answers. Session moderators will be asked to ensure that sessions do not run over their allotted time.

Language of the Conference The language of ASTRO 2022 is English. Please note that no translation services will be provided.

Registration

Registration is available online via the CASI web site. **All participants are required to register for ASTRO 2022** and are responsible for the cost of registration. A Letter of Invitation will be provided upon request.