



# ASTRO 2024

August  
27-29

Westin Airport  
Toronto

## Call for Abstracts

ASTRO 2024 is the 23<sup>rd</sup> 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'24 is being held at the Westin Airport Toronto Hotel from Tuesday August 27 through Thursday August 29.

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'24 Technical Committee are Dr. Philip Ferguson (University of Manitoba) and Dr. Christopher Damaren (University of Toronto Institute for Aerospace Studies).

## Conference Highlights

**Onsite Conference** | ASTRO'24 affords the 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 on a wide variety of topics by senior representatives from industry and academic organizations and Canadian government officials. Speakers will explore ways that Canadian organizations can strengthen their expertise, achieve their goals, and participate more fully in the international space arena.

**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.

**Language** | The language of ASTRO 2024 is English. Please note that no translation services will be provided.



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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
- Durability and Sustainability
- Earth observation, remote sensing
- Experimental methods and structural health monitoring
- 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
- Space vehicle sciences
- Sub-orbital platforms – sounding rockets, high-altitude pseudo-satellite
- Sustainable space exploration
- Testbeds/analogues

## Important Dates

Abstract Submission Deadline	<b><u>Through</u></b> June 5
Abstract Acceptance Notification	June 12
Early Registration Deadline	July 8
Presenting Author Registration Deadline	July 31
Hotel Special Rate Booking Deadline	August 5
ASTRO 2024 Conference	August 27-29



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## 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 DOCX format
- 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)

Visit [casi.ca/astro2024](https://casi.ca/astro2024) for Instructions for Authors, Abstract Submission and all other ASTRO information.

## 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.

## Registration

All participants are required to [register for ASTRO 2024](#) and are responsible for the cost of registration. A Letter of Invitation will be provided upon request.