



AERO 23

Canada's leading
aeronautics conference
*La principale conférence
en aéronautique au Canada*

Nov. 14-16 nov. | Ottawa, ON

CALL FOR ABSTRACTS | 27th CASI Aerospace Structures & Materials Symposium

CASI AERO 2023 offers unparalleled opportunities for networking, collaboration and professional development to delegates from Canada and around the world. AERO'23 will be held in Ottawa in seven Symposia, together with top-flight panels and keynote speakers. The conference can focus on such topics as autonomous air mobility and enabling technologies that may be of interest to multiple disciplines. Proposals for joint sessions involving two or more Symposia will be considered.

SUGGESTED TOPICS FOR THIS SYMPOSIUM

Abstracts are sought from Canada and abroad on all aspects of the structures and materials of aircraft, UAVs and space systems, including relevant aspects of landing gear and propulsion systems. Topics of interest include but are not limited to:

- Light alloys, high-temperature alloys, high-entropy alloys, ceramics and functional coatings
- Novel, smart, and composite materials and structures
- Materials, structural design and characterization for additive manufacturing
- Low-cost materials and structures for UAMs
- Structural integrity and health monitoring, holistic life cycle assessment
- Structural life enhancement / prediction technologies
- Assessment of corrosion, environment, fretting, impact damage; NDT and MRO
- Digital twinning and probabilistic methods
- Crashworthiness and airworthiness of structures
- Aeroacoustics and structural dynamics
- Reduction of environmental risk and cost
- Regulatory requirements, certification programs
- Assessment of loads, static strength, fatigue life, damage tolerance, WFD
- Experimental mechanics

ABSTRACT SUBMISSION

Abstracts should be approximately 300 words, must identify all authors/organizations, and must include phone/e-mail contacts for the lead author. Visit casi.ca/aerosubmissions to submit your AERO 2023 abstract.

LANGUAGE OF THE CONFERENCE

The language of the conference is English.

PROCEEDINGS

A Special Issue of the *Canadian Aeronautics and Space Journal* may be published to include selected papers that expand upon the presentations given during AERO 2023. More information will be available as the Conference approaches.

DEADLINES

Please consult casi.ca/aero2023 for important dates.

WORKSHOPS

Proposals are invited for specific topics that lend themselves to this treatment. A 500-word proposal including the subject area, contents and suggested speakers should be submitted by September 1 to Att: General Chair, AERO'23 at aero@casi.ca.

PROGRAM COMMITTEE

Sheida Sarafan, NRC Aerospace (Chair)
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ADDRESS ALL ENQUIRIES TO:

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