



# AERO 21

65<sup>th</sup> Aeronautics Conference  
65<sup>e</sup> conférence en aéronautique

A CASI *on-line* presentation  
Une présentation *en ligne* de l'IASC

Canada's leading  
aeronautics conference

La principale conférence  
en aéronautique au Canada

**June 14-18 juin 2021**

## Call for Abstracts

### 26<sup>th</sup> CASI Aerospace Structures & Materials Symposium

**CASI AERO 2021** offers unparalleled opportunities for networking, collaboration and professional development to delegates from Canada and around the world. AERO'21 will be presented on-line 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:

- Developments in light alloys, superalloys, coatings, and composite materials
- Materials design and manufacturing concepts
- Structural design and integrity concepts, health monitoring, life cycle management
- Assessment of loads, static strength, fatigue life, damage tolerance, WFD
- Assessment of the effects of corrosion, environment, fretting, impact damage; non-destructive testing and MR&O
- Aeroacoustics and structural dynamics
- Modelling, simulation, probabilistic methods
- Experimental methods and test facilities
- Component life enhancement technologies
- Sustainability as a key driver in the development of aerospace structures and materials.
- Reduction of environmental risk and cost
- Fleet life extension and life estimation technologies
- Regulatory requirements, certification programs

#### Abstract submission

Abstracts should be approximately 300 words, must identify all authors/organizations, and must include phone/e-mail contacts for the lead author. [Click here to submit your AERO 2021 abstract.](#)

#### Deadlines

**Initial abstracts: April 7**

**Notification of abstract acceptance: April 20**

**Abstracts (1000 words) for student awards: May 7**

**Notification of student award finalists: May 19**

**Full papers/extended abstracts: June 14**

#### Language of the conference

The language of the conference is English.

#### 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 April 7 to: General Chair, AERO'21 at [aero@casi.ca](mailto:aero@casi.ca).

#### Student presentations

Student presentations in all Symposia may be eligible for the AERO'21 Best Student Presentation Award. Students who wish to be considered for this Award must submit an abstract of at least 1000 words including key results and supporting figures, and indicate student status and affiliation. Nominated finalists will give their presentations in a special Session during the Conference.

#### Proceedings

Proceedings will include full papers and extended abstracts. Authors who submit full papers or extended abstracts may have their submission considered for publication in the *Canadian Aeronautics and Space Journal*.

#### Program Committee

Javad Gholipour NRC Aerospace (Chair)  
Sheida Sarafan, NRC Aerospace (Co-Chair)

#### Address all enquiries to:

Javad Gholipour, NRC Aerospace  
[Javad.gholipour@cnrc-nrc.gc.ca](mailto:Javad.gholipour@cnrc-nrc.gc.ca)