



AERO 21

65th Aeronautics Conference
65^e 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

18th CASI Aerodynamics 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 invited on topics in all areas of aerodynamics of fixed wing and rotary wing aircraft. Topics of interest include but are not limited to:

- Aerodynamics of aircraft and aircraft components including high-speed and high-lift configurations
- Aerodynamic/structural dynamic interactions
- Design methodologies, optimization techniques, MDO
- Engine intake and exhaust aerodynamics including aerodynamics of integrated aero-propulsive concepts
- Environmental and inclement weather effects (wind, turbulence, icing)
- Testing (wind-tunnel tests, ground tests, flight tests)
- Aeroacoustics
- Drag reduction including laminar flow design
- Passive and active flow control techniques
- Unsteady aerodynamics
- Aerodynamic predictive methods including flight dynamics, flight controls, control laws
- CFD and computational methods as applied to any of the above, including unsteady aerodynamics, higher-order methods and meshing techniques
- Any of the above applied on fixed/rotary wing aircraft, propellers, unmanned aerial vehicles (UAVs) and novel aircraft configurations.

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.](#)

Language of the conference

The language of the conference is English.

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

G.N. Patterson Award

This Award recognizes the best Aerodynamics Symposium presentation with an undergraduate or graduate student as lead author. Students must indicate their status and affiliation. Co-authors must indicate their level of contribution and that of the student lead author.

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.

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

François Bisson, Airbus Canada (Chair)

Charles Armand Tatossian, Bombardier Aerospace (co-Chair)

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