



2010 RAeS Aerodynamics Conference

**Applied Aerodynamics:
Capabilities and Future Requirements**

Tuesday 27 – Wednesday 28 July 2010

*(Following the UK Farnborough International Air Show
19-25 July 2010)*

University of Bristol
Queens Building, University Walk

CALL FOR PAPERS

Synopsis

The Royal Aeronautical Society is proud to announce its Applied Aerodynamics Research Conference during the week following the Farnborough International Air Show.

The Conference will provide a forum for the presentation and discussion of all aspects of aerodynamics, covering both the research and the applications. The Conference will provide an opportunity to raise the profile of the challenges ahead and highlight some of the technologies that will be required to ensure cost effective solutions for the development of competitive air platforms in a global market, while meeting the increasingly demanding exigencies implied by environmental considerations.

The Conference is targeted at aerodynamics researchers and programme managers from academia, industry and research establishments worldwide with the following objectives:

- Bringing together aerodynamics professionals for a balanced perspective of fundamental science issues, and technological challenges related to the current areas of aerodynamics
- International Cooperative projects, current status & wider dissemination
- Presenting new ideas, research results, and technology integration and validation
- Providing a forum for the presentation and discussion of results and experiences with a view to the future enhancement of capabilities
- Assessing state-of-the-art computational methods as practical aerodynamic tools for the aerodynamic prediction of industry relevant geometries.
- Evaluating the effectiveness of existing computer codes and modelling techniques using appropriate solvers including Navier-Stokes types in an impartial forum
- Identifying areas needing additional research and development

Instructions to Authors

The Organising Committee invites prospective authors to submit abstracts of original work for presentation at the Conference. Abstracts should be written in English and contain between 800 - 1000 words and include figures and results. Authors should submit abstracts in electronic format only **by Monday 25 January 2010**. Selection will be made on the abstract content and applicability to the final published programme requirement.

Accepted scripts and presentations, fully cleared for publication and presentation should be submitted by Friday 9 July 2010.

All written papers will be included in the Conference Proceedings and made available to delegates on a CD-Rom or through the Society's web pages. Accepted papers may also be considered for inclusion in the Royal Aeronautical Society's Aeronautical Journal, subject to the refereeing process. Due to this being a technical conference, speakers planning to attend the entire conference will be expected to pay a reduced fee for their place.

It is important to note that papers should not have been published previously and they should avoid inappropriate sales or marketing content.

DEADLINE EXTENDED:

**Please send Abstracts (quoting ref: 634) by
Monday 25 January 2010 to:
emma.brown@aerosociety.com**

Main Topics

The Conference will address a wide range of issues related to aerodynamics including conventional and novel configurations. Prospective authors are invited to submit abstracts covering aerodynamics and flight dynamics research of both a basic and applied nature in the following areas:

- Unconventional configurations for both civil and military application including Morphing
- Blended wing/body configurations, highly integrated propulsion/airframe concepts
- Concepts & Research towards Fuel Efficiency, Operational Implications
- Computational tools
- Test programmes
- Novel control effectors
- Micro Air Vehicles
- Flight dynamics
- Aero-elastic Implications

The above list is not exhaustive. Abstracts are invited in all aspects of aerospace aerodynamics.

In addition to papers submitted to this call, invited experts will give presentations covering the latest developments in aerodynamics with relevance across both the civil and military sectors.

Abstracts both of scientific or general industrial focus are encouraged. In the case of scientific papers each abstract should include clear evidence of the maturity of the work, the validity of the content, the viability of the approach and the integrity of the results. Abstracts should contain a statement regarding the application and exploitation of results.

Poster Presentations

The committee will identify a number of reserve papers for each session and under normal circumstances these will be included in the proceedings. In addition to full-length papers, authors are also invited to propose abstracts for 'poster sessions'.

Key Dates & Deadlines

Abstracts submitted by:	25 January 2010
Authors notified by:	12 February 2010
Programme Circulation:	March 2010
Full papers submitted:	9 July 2010
Conference:	27 – 28 July 2010

Please send Abstracts (quoting ref: 634) to:
emma.brown@aerosociety.com

Correspondence

Technical enquiries should be sent to the Chairman of the Organising Committee via the RAeS Conference & Events Department:

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Organising Committee

Dr Raj Nangia

Dr Laurent Dala

Stephen McParlin

Dr Mark Lowenberg

Alan Roberts

Prof Clyde Warsop

Conference Venue - Bristol

Bristol is a major aerospace centre of the world. It lies some 120 miles west of London. Several aerospace companies eg. Airbus, Rolls-Royce, BAE Systems and Thales operate here. It is renowned for two major universities with international connections. In 2010 Bristol commemorates 100 years of aviation in the city. Bristol is well connected with national and international transport.

Conference and Events Department

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For more information visit

www.aerosociety.com/conference

Take an active part in the aerospace community

The Royal Aeronautical Society's unique ability to stimulate discussion and exchange ideas is becoming ever more relevant with the need to harness the diverse nature of the industry into a cohesive entity.

Why the RAeS?

- The RAeS is globally recognised as the only professional institution dedicated to the entire aerospace community
- As a not-for-profit organisation we are committed to reinvesting back into industry through scholarships, the National Aerospace Library and the only aerospace careers centre in the UK

Corporate Profiling Opportunities & Exhibition Space

Exhibition space will be available for material related to the Conference. For further details on this and other promotional opportunities, such as sponsorship during the Conference, corporate inserts in delegate pack and so forth, please contact the Conference Department at the address below.

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For more information visit www.aerosociety.com/conference

