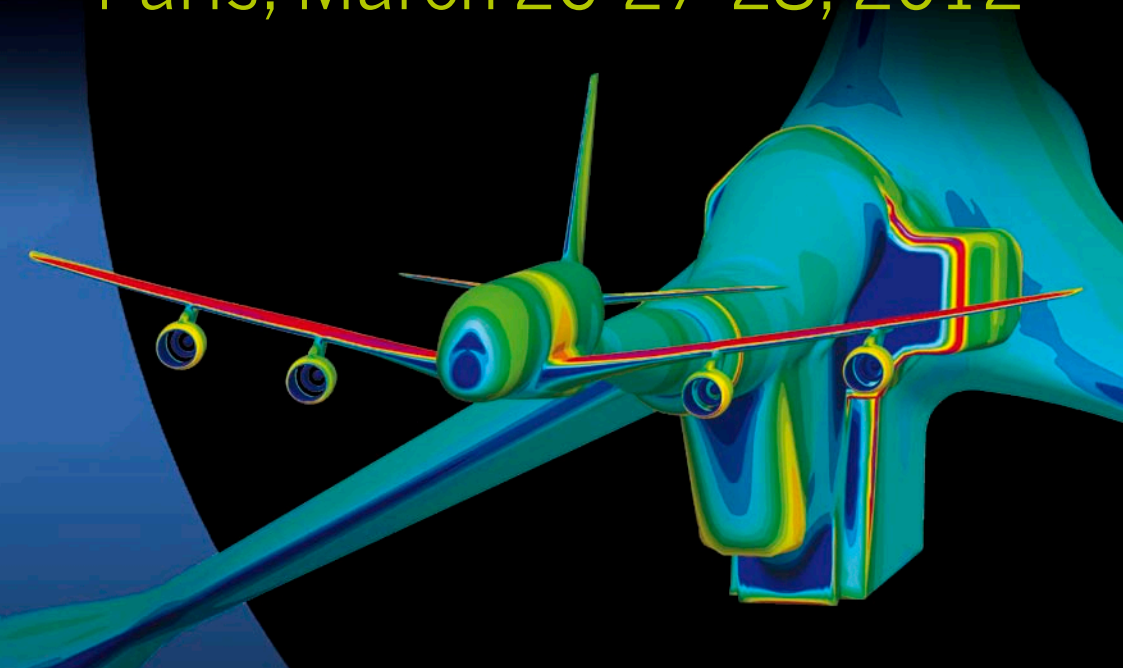


CALL FOR PAPERS



# 47<sup>th</sup> Symposium of Applied Aerodynamics Wind tunnel and computation: a joint strategy for flow prediction Paris, March 26-27-28, 2012



*1912-2012 Centenary of the Eiffel wind tunnel*

ONERA

THE FRENCH AEROSPACE LAB



# Call for papers

Communication abstracts (300 to 500 words, preferably with figures) have to be mailed to the 3AF Executive Secretary before November 21, 2011.

The Scientific Committee will inform the authors of acceptance by mid-December 2011 at the latest.



## Official language

Papers must be submitted and presented in English. The written version of the communication will be in English and must be sent to the 3AF Executive Secretary ([secr.exec@aaaf.asso.fr](mailto:secr.exec@aaaf.asso.fr)) before February 27, 2012 to allow their insertion in the symposium proceedings.

A selection of papers will be published in a special issue of the International Journal of Engineering Systems Modelling and Simulation (IJESMS) dedicated to the 47<sup>th</sup> Symposium of Applied Aerodynamics. Authors are however free to publish their paper in any other journal, a reference to the symposium being then appreciated.

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## Symposium deadlines

Abstract submission:

**November 21, 2011**

Paper acceptance:

**December 12, 2011**

Full length paper:

**February 27, 2012**

Symposium in Paris:

**March 26-27-28, 2012**

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## Symposium secretariat coordinates

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### Programme coordinator: Jean Détery

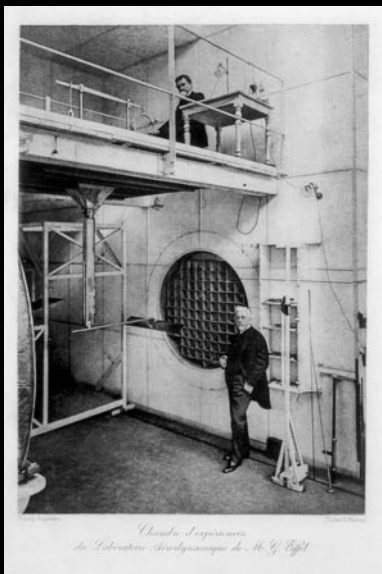
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## Wind tunnel and computation: a joint strategy for flow prediction



In 1909, Gustave Eiffel built at the foot of his famous tower one of the first wind tunnels dedicated to a new science: **Aerodynamics**. In 1912, the wind tunnel was moved to Auteuil, in Paris, where it is still in operation.

In 2012, the French aerodynamics community celebrates the centenary of the Eiffel wind tunnel and its continued use for the study of a large number of aerodynamic problems concerning aircraft, automobiles, buildings, etc. The 47<sup>th</sup> International Symposium of Applied Aerodynamics, which is placed under the auspices of this celebration, will focus on today strategy used for performance predictions and detailed flow analysis. This includes intensive use of CFD in connection with wind-tunnel experiments aiming to assessing the accuracy of computations, investigating the physics of complex flows and improving theoretical models. The symposium will also consider the close connection between wind-tunnel operation and CFD within the context of a computer aided wind tunnel.

### Keynote conferences

Richard <b>Dwight</b>	Delft Technical University
Zdenek <b>Johan</b>	Dassault Aviation
Dimitri <b>Mavriplis</b>	University of Wyoming
Martin <b>Peter</b>	Eiffel Wind Tunnel
Patrick <b>Wagner</b>	Onera



### Main Topics

Among the many aspects of the problem, the following items will be considered (the list being not exhaustive):

- **Wind tunnel operation, improvement and development.**
- **Advanced measurement techniques and processing methods**
- **Quantification of uncertainties and calibration methods**
- **Computer aided wind tunnel**
- **Computations and validation procedure**
- **Fundamental experiments for flow modelling**
- **Cooperative CFD and wind tunnel for aerodynamic design**

## Scientific Committee

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Dassault Aviation  
ENSMA  
Onera  
Glyndwr University

**3AF, Association Aéronautique et Astronautique de France, organises each year the Applied Aerodynamics Symposium in a different venue known for its activity in the domain of aeronautics and/or space.**

This symposium is an excellent opportunity for scientific exchanges among the aerospace community where aerodynamicists from industry, research institutions and academics meet. Scientists and engineers from other domains involving fluid mechanics are also welcome. The 3AF Symposium of Applied Aerodynamics concentrates each year on a different topic representative of the present concerns in the field of aerodynamics. It is organized on the basis of five sessions, each introduced by a keynote speaker. The symposium ends with a technical visit usually in connection with the symposium's subject.