7th Conference on

Bluff Body Wakes and Vortex-Induced Vibrations

BBVIV-7

3-6 July 2018 – Carry-le-Rouet (Marseille), France

www.bbviv.org



New abstract submission deadline: **22 January 2018**

Second Announcement and Call

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7TH CONFERENCE ON BLUFF BODY WAKES AND VORTEX-INDUCED VIBRATIONS

The series of conferences on Bluff Body Wakes and Vortex-Induced Vibrations provides a stimulating and constructive forum for researchers specializing on the problems of fixed and vibrating bluff body flows.

The present 7th Conference on Bluff Body Wakes and Vortex-Induced Vibrations (BBVIV-7) will follow the spirit set in the previous events of this series over the last two decades:

- *Forum on Advances in the Understanding of Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-1), which was part of the 1998 ASME-FED Summer Meeting in Washington DC, USA;
- *IUTAM Symposium on Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-2), held in Marseille, France, in June 2000 – **http://www.bbviv.org/BBVIV2**;
- *Symposium on Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-3), held in Port Douglas, Queensland, Australia in December 2002;
- *Fourth Conference on Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-4), held on Santorini Island, Greece, in June 2005;
- *Fifth Conference on Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-5), held in Costa do Sauípe, Bahia, Brazil, in December 2007;
- *IUTAM Symposium on Bluff Body Wakes and Vortex-Induced Vibrations* (BBVIV-6), held on Capri Island, Italy, in June 2010 – **http://www.bbviv.org/BBVIV6**.

The conference will take place over four days, starting on Tuesday, 3 July 2018 and ending on Friday, 6 July 2018. It will consist of single plenary sessions with invited lectures (40 minutes), oral presentations (20 minutes), poster presentations (3 minutes), and discussions on special topics. Selected papers from the conference will be invited to be published in an international refereed journal.

SCOPE OF CONFERENCE

BBVIV-7 will focus on aspects of the dynamics of vortex structures found in the wakes of fixed and oscillating bluff bodies, including vortices resulting from shear layer instability, or near- and far-wake instabilities. Experimental, computational and analytical studies will be presented on topics such as the following (not exhaustive):

- Dynamics of long flexible cylinders
- Energy harvesting from oscillating bluff bodies
- Wake development behind wind turbines
- Wakes in stratified flows
- Vortex dynamics of swimming and propulsion
- Bodies impinging on surfaces
- Wake interference between multiple bodies
- Active and passive control of wakes
- Aspects of vortex-induced vibration of bluff bodies
- Vortex-induced vibrations at very high Reynolds numbers
- Vortex-induced noise due to bluff bodies

- Rising and falling bodies in a fluid
- Controlled vibration of bluff bodies
- Vehicle aerodynamics
- Aerodynamics of airfoils at large angles of attack
- The 3-D structure of wakes from nominally two-dimensional bluff bodies
- Mode changes in the wakes of circular cylinders
- Bodies in unsteady/oscillatory flows
- Wakes in shallow water flows
- Relation between wake structure and the force experienced by a bluff body

All submitted papers will be peer reviewed under the coordination of a scientific advisory panel. The conference will keep the tradition of inviting internationally renowned keynote speakers.

INVITED SPEAKERS

- **Anthony Leonard** — California Institute of Technology, Pasadena, CA, USA – Opening Lecture –
- **Gustavo R. S. Assi** — University of São Paulo, São Paulo, Brazil
- **Sébastien Michelin** — Ecole Polytechnique, Paris, France
- **Alexander J. Smits** — Princeton University, Princeton, NJ, USA
- **Jens N. Sørensen** — Technical University of Denmark, Lynby/Copenhagen, Denmark
- **Geoffrey R. Spedding** — University of Southern California, Los Angeles, CA, USA
- **David Sumner** — University of Saskatchewan, Saskatoon, SK, Canada

SCIENTIFIC COMMITTEE

- T. Leweke, Co-Chair — CNRS, IRPHE, France
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- M. C. Thompson — Monash University, Australia
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LOCAL ORGANISING COMMITTEE

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- M. Provansal — Aix-Marseille Université, IRPHE

IMPORTANT DEADLINES

- **22 January 2018** — ***NEW*** **– Receipt of extended abstracts**
- **19 February 2018** — **Notification of acceptance of papers to authors**
- **30 April 2018** — **Deadline for guaranteed accommodation reservation**
- **25 May 2018** — **Deadline for early registration**
  Registration deadline for inclusion in program
- **25 June 2018** — **Registration deadline**
- **3-6 July 2018** — **BBVIV-7 Conference, Carry-le-Rouet, France**
- **15 October 2018** — **Due date for submission of selected papers**

PARTICIPATION

The selection of presentations at the conference will be made on the basis of peer review, by two independent referees, of each extended abstract received by the strict deadline of **22 January 2018**. A volume of accepted abstracts will be available to each registrant at the conference. Following the meeting, a selection of papers will be made by the Scientific Committee for expansion into the format required for publication in a special issue of an international refereed journal, to appear in 2019.

Format and submission of extended abstracts

The extended abstract should be a single PDF document, 2-4 pages in length, containing all relevant material (author information, text, figures, references).

Format requirements and submission procedure: visit **http://www.bbviv.org/part.html**.

Please note: after acceptance, each contribution must be accompanied by at least one separate registration, in order for the presentation to be included in the conference program and in the book of abstracts.

LOCATION, VENUE & ACCOMMODATION

The conference will be held in the newly renovated "Vacanciel" resort at Carry-le-Rouet, a small town of the "Côte Bleue", approximately 25 km west of Marseille, France, on the Mediterranean Sea. It is easily accessible from the main railway station Saint-Charles in downtown Marseille, or by taxi from Marseille-Provence international airport.

Links: **http://www.vacanciel.com/club-vacanciel-carry-le-rouet**, **https://youtu.be/fXyoN0G6rCc**

Full board and lodging will be available to all participants at the conference site at a cost of **400 EUR** (single room) or **300 EUR** (double room) per person for four days (Monday evening – Friday afternoon). We highly recommend staying at this holiday resort, because of its pleasant location and for convenience. It is not planned to organise daily shuttle buses between the conference site and other hotels or downtown Marseille. Reservations will be handled by the Organising Committee at the time of registration. The above room rates are specially negociated for this event. Enough rooms have been retained to accommodate everyone. It will be possible to book accommodation before and/or after the meeting at Vacanciel at the standard rates. – **Please do not book accommodation yourself on the Vacanciel web site or make a reservation directly with the resort!**

More details on registration, accommodation, and transport will be posted later.

SOCIAL PROGRAM

The conference will mix informality with maximum opportunity for interaction between participants.

A welcome reception, including drinks and appetizers, at the Vacanciel resort will be offered to all participants and accompanying persons, before dinner on the evening of the first day of the conference.

On the Thursday evening, a banquet dinner is planned in the restaurant **La Table** (http://goo.gl/nuQY41), at the top of the **MuCEM** museum (http://www.mucem.org/en/the-mucem) in downtown Marseille, over-looking the harbour and the Bay of Marseille. Bus transportation will be provided after lunch on Thursday, from the Vacanciel resort to the Old Port in Marseille, for an afternoon of (self-organized) sightseeing, and back from the MuCEM to the resort after the banquet.

Side activities include:
- On site: pebble beach access, pool, volleyball, tennis, table tennis, pétanque, hiking, tree-top rope course, archery, scuba diving, sea kayak, rock climbing;
- Nearby: sailing, windsurfing, catamaran, stand-up paddle, boat trips (Côte Bleue);
- Excursions to: Aix-en-Provence, Marseille, Cassis, Camargue region, Provence backcountry.

REGISTRATION

The registration fee for BBVIV-7 will be **400 EUR**, if registration is made before 25 May 2018; afterwards a surcharge of 100 EUR will apply. Full-time students may apply for a reduced rate of **250 EUR** by sending a short motivation/justification letter and a copy of their student ID. These prices include the volume of extended abstracts, a copy of the symposium proceedings, welcome reception, banquet (including transport to Marseille), four lunches, and morning and afternoon tea and coffee. More details on the registration procedure will be given later.

ENQUIRIES

Further details of the organisation of BBVIV-7 will be posted on the conference website as soon as they become available. Please check regularly: **http://www.bbviv.org**.

Enquiries can be directed to the chairmen of BBVIV-7:

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