



AUSTRALASIAN
FLUID
MECHANICS
SOCIETY

NEWSLETTER – No. 3

April 2011

Welcome to the third newsletter of the Australasian Fluid Mechanics Society (AFMS). Over this past nine months the Society has grown with its membership now standing at 185. Of particular note is that 10 inaugural Fellows of the Society were elected and inducted during a ceremony at the 17th Australasian Fluid Mechanics Conference (AFMC) in Auckland in December 2010. At the same event, the annual general meeting of the Society was held. As the outcome of a formal selection process, the Society also announces, via this newsletter, that the 18th AFMC in 2012 will be held in Launceston, Tasmania. These developments are reported upon in the news items below. The Society's forward momentum is increasing but it still needs its members to 'spread the word', perhaps by forwarding this newsletter to non member fluid mechanicians as a means to grow and strengthen the Society.

NEWS

17 AFMC

The 17th Australasian Fluid Mechanics Conference was held in December 2010 in Auckland NZ. Professor Gordon Mallinson, Chair of the Organizing committee, and his team are to be congratulated for their successful organisation and hosting of the conference that drew a total of 240 delegates and at which 207 full papers plus 31 abstracts were presented. Delegates at the conference spoke warmly about the professional way in which the conference ran, the friendly atmosphere of the event and the high quality of the research papers presented. At the end of this newsletter is a montage of images from the conference.

All of the published papers are available at the AFMS electronic archive:

<http://www.mech.unimelb.edu.au/people/staffresearch/AFMS%20site/AFMC.htm>

In addition to thanking the organisers of the conference, the contributions of many members of our Society to the paper reviewing process are noted and appreciated. The importance of the AFMC series cannot be underestimated because these conferences provide the opportunity for members of our (geographically separated and 'discipline diffuse') Fluid Mechanics community to come together for interaction, support and

stimulation and be reminded of the breadth, high achievement and importance of Fluid Mechanics in Australasia.

Inaugural Fellows of the AFMS

As the result of a process of nomination and supporting testimonies, 10 outstanding fluid mechanics were elected to fellowships of the AFMS. These inaugural fellows were inducted in December at a special ceremony during the conference dinner of the 17th AFMC in Auckland on the 8th December 2010. The first 10 fellows of the AFMS are:

Robert Anthony Antonia

Robert William Bilger

David Vernon Boger

Ross William Griffiths

Jörg Imberger

Peter Numa Joubert

Raymond John Stalker

Roger Ian Tanner

John Stuart Turner

Ian Ruthven Wood

The AFMS continues to welcome fellowship nominations for future years by way of a written case that covers biographical elements of the nominee with emphasis on outstanding achievements plus supporting letters from two experts able to comment on the nominee's contributions to research and/or education in Fluid Mechanics. While 10 inaugural fellowships were awarded in 2010 it is expected that only one or two fellows would be elected in following years.

A photo gallery of new fellows receiving their certificates is at the end of this newsletter.

Launceston selected as host city for 18 AFMC

The AFMS Executive has selected Launceston as the host city for the 18th Australasian Fluid Mechanics Conference (18 AFMC) to be held in 2012. The decision was based upon the bid presentation at the AFMS AGM followed by executive committee member Jim Denier's visit to view the venue, nearby amenities and Launceston's environs. The decision aligns with the outcome of an informal vote of the AFMS membership taken at the AGM in December.

The conference will be jointly hosted by the University of Tasmania and the Australian Maritime College (AMC) while being strongly supported by local and state governments. Conference delegates will be able to tour the unique experimental facilities at the AMC. Launceston promises to be an ideal venue in terms of accommodation, restaurants, sights and tours, all located very close the proposed conference hotel while the venue is 15 minutes from the airport or a one hour drive from the ferry terminal. The 18 AFMC will also mark the 20th anniversary of Tasmania's first hosting of the AFMC in Hobart in 1992.

The conference chair is A/Professor Paul Brandner of the AMC. The 18 AFMC will be the first of the series to be run under the auspices of the AFMS which will work closely with Paul. We also hope that AFMS members will assist Paul and the AFMS through promotion, reviewing abstracts and papers and, of course, by attending the conference!

ANNUAL GENERAL MEETING (2010)

The annual general meeting of the AFMS was held on the 7th December 2010 at the University of Auckland where the 17 AFMC was being held in order to permit as many members of the AFMS to attend. Key issues were as follows.

- There remains a need to promote membership of the Society to students and colleagues. While the number of members has increased, the Society needs this to be in the thousands in order to raise sufficient monies (while keeping the subscription fee low) to allow various initiatives to be undertaken and for the Society to wield real influence for the benefit of Fluid Mechanics in Australasia.
- The finances of the AFMS are sound but, as mentioned above, revenue needs to grow through an increase in membership.
- The rules of the Society were changed at a special meeting so that the financial year now effectively ends on the 31st October every year and thereby allows the right timing for the AGM to be held at the AFMC in the conference years.
- Bids to host the 18th AFMC were presented by Launceston and Melbourne. The ensuing discussion yielded good feedback and suggestions to the organisers and the AFMS. The meeting voted unanimously to authorise the AFMS Executive Committee to make the final decision on which bid would be accepted.
- A number of initiatives already in the pipeline are moving slowly because those few personnel involved do not have the time to undertake tasks on their own. What is needed are a few more volunteers from the AFMS membership who would wish to contribute to, for example, the development of the AFMS website. Thus, if you are able to give a little time to our community, then please put your hand up (through any of the committee members) and let us know in what way you can contribute.

THE EXECUTIVE COMMITTEE

The membership and roles of the executive committee are as given below. Members will normally serve for two years at the end of which the Society will hold elections for the open positions.

| | |
|----------------|----------------------------|
| Ivan Marusic | President |
| Julio Soria | Vice President |
| Ross Griffiths | Treasurer |
| Tony Lucey | Secretary |
| Steve Armfield | Executive Committee Member |

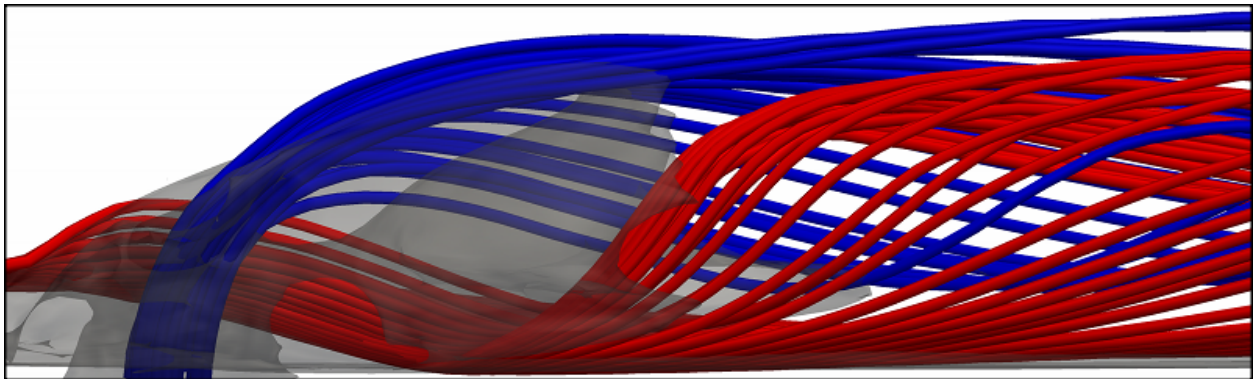
| | |
|-----------------|-------------------------------------|
| Jim Denier | Executive Committee Member |
| Greg Ivey | Executive Committee Member |
| Richard Morgan | Executive Committee Member |
| Roger Nokes | Executive Committee Member |
| Tony Roberts | Executive Committee Member |
| Michael Borgas | Co opted Executive Committee Member |
| Gordon Mallison | Co opted Executive Committee Member |
| Nigel Smith | Co opted Executive Committee Member |

ENDPIECE

If you would like to contribute an item for inclusion in the next newsletter, then please contact the secretary of the AFMS at a.lucey@curtin.edu.au

Note that the Society's website can be found at: <http://www.afms.org.au>

This newsletter's fluid mechanics image is provided by Dr James Jewkes of the Fluid Dynamics Research Group at Curtin University. **More submissions are requested for future editions of the newsletter and for the AFMS gallery.**



The figure shows time-averaged streamlines of a pitched and skewed vortex generating jet issuing into a turbulent boundary layer. The streamlines show higher momentum fluid from the outer regions of the boundary layer (red streamlines) being swept into the near-wall region. The simulation was computed using a custom LES boundary-layer code; inlet boundary conditions were provided with a variant of the Lund et al inflow generation condition. [Ref.: Jewkes et al., *AIAA J.* 49(1):247–250, 2011]

Note: A photo montage of the 17 AFMC and a photo gallery of inaugural AFMS fellows at the awards ceremony are on the following two pages.

Photos from the banquet dinner at the 17th AFMC in Auckland



Gordon Mallinson
Chair, 17AFMC



Ivan Marusic
President, AFMC

