



AUSTRALASIAN
FLUID
MECHANICS
SOCIETY

NEWSLETTER – No. 2

August 2010

Welcome to the second newsletter of the Australasian Fluid Mechanics Society (AFMS). Over this past year, the Society has grown and aspects of its identity, purpose and activities have more clearly emerged. Membership now stands at 92 members and is expected to increase further through registrations at the 17th Australasian Fluid Mechanics Conference (17 AFMC). The Society held its annual general meeting on the 26th February 2010. In addition to the formal business conducted, the AGM resulted in the proposal of a number of initiatives that will enrich the Society and service to its membership; these developments are described below. Please continue to ‘spread the word’, perhaps by forwarding this newsletter to non-member fluid mechanics as a means to strengthen the Society.

NEWS

ARC Representation

Actions by the committee have resulted in an improved representation of specialist fluid mechanics on the ARC’s College of Experts panels. In addition to members serving on the Engineering and Environmental Sciences panel (Ivan Marusic) and the Physics, Chemistry and Geosciences panel (Ross Griffiths), reported in the last newsletter, Greg Ivey has been appointed to the Physics, Chemistry and Geosciences panel. However, the discipline of Fluid Mechanics, with its immense scientific reach and importance in the application areas that define the global challenges of sustainability, is still under-represented. Accordingly, the AFMS will continue to lobby the ARC for greater visibility and support of Fluid Mechanics.

17 AFMC

The 17th Australasian Fluid Mechanics Conference will be held 6-10 December 2010 in Auckland NZ; the Chair of the Organizing committee is Professor Gordon Mallinson (University of Auckland). A total of 320 abstracts have been received with the full papers now being in preparation. The volume, breadth and quality of the contributions received promises to yield another stimulating conference of the series. We look forward to seeing you there.

AFMC Archive

A preliminary version of all the scanned AFMC proceedings is now available online. In future, these will only be made available to members, but in the meantime they are available to all at the following link:

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

The idea of setting up an AFMS journal was discussed at the AGM but it was unanimously agreed that there already exist a sufficient number of suitable journals dedicated to the publication of fluid-mechanics research. The AFMS can contribute better by providing an archival repository that supports the discipline and is a central point for the sharing of resources that promote Fluid Mechanics.

DEVELOPMENTS

The AGM resulted in a number of developments that will be rolled out through this year. These include the following.

- A number of awards that promote and encourage young researchers and new graduates will be established by the AFMS. These include prizes for: best paper at the AFMC; best presentations at the AFMC in the categories of experimental, applied and fundamental fluid mechanics; and annual best thesis award in the discipline of Fluid Mechanics. A role of honour for winners will be mounted on the AFMS website.
- Recordings of fluid-mechanics research lectures for posting on the AFMS website will be investigated. This will provide the means by which high-quality presentations given in geographically disparate parts of Australia and New Zealand can be shared and reach a wider audience.
- The Society will investigate the feasibility of coordinating eminent speaker tours whereby renowned speakers could present a lecture across a number of cities with the cost supported by all institutions/states involved in hosting the guest.
- A competition that invites student members to create a (YouTube type) video on Fluid Mechanics that both informs and engages the layperson will be initiated. The winning video(s) would be posted on the AFMS website and could be used as a resource for encouraging new students into the discipline.
- A gallery of fluid-mechanics images generated by members' research, and accompanied by a brief explanatory text, will be exhibited on the AFMS website in downloadable form. This gallery will effectively serve to promote the research of Australasian researchers through the use of its images worldwide in lecture and other illustrative materials. An example is provided in the endpiece of this newsletter.
- The AFMS is seeking to develop a logo that best captures Fluid Mechanics and the character of the Society. To tap into the creative talent of the membership, a competition will be held to achieve this end. Look out for the call-for-entires to this competition that will result in a lasting impact for the winning entry.

If you have further suggestions for services that will benefit the members of the AFMS and/or disseminate the richness of fluid-mechanics research, then please communicate these to the committee.

BIDS TO HOST THE 18 AFMC IN 2012

A call for bids to host the 18th Australasian Fluid Mechanics Conference (AFMC) is announced by way of this newsletter. A form is available through which to make such applications: this can be obtained from either the president or secretary. Particularly welcome are city-based bids that bring together more than one institution to host the event. Bids must be lodged before the closing date of 30th November 2010 and the winning bid will be announced in the closing ceremony of the 17th AFMC in December 2010.

At its AGM, the Society agreed that future AFMCs will be held biennially and under the auspices of the AFMS through coordinated local and central organising committees. This arrangement will serve to remove financial risk (and gain) from host organisations. It will also allow the combined expertise of the AFMS to assist in the demanding aspects of conference organisation such as the management and reviewing of papers and ensure the consistently high standards of the conference series as the flagship event of the Society.

THE EXECUTIVE COMMITTEE

At its February annual general meeting (AGM) the membership and roles of the executive committee were determined as follows; all members were elected unopposed after a general call for nominations in Newsletter No. 1.

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

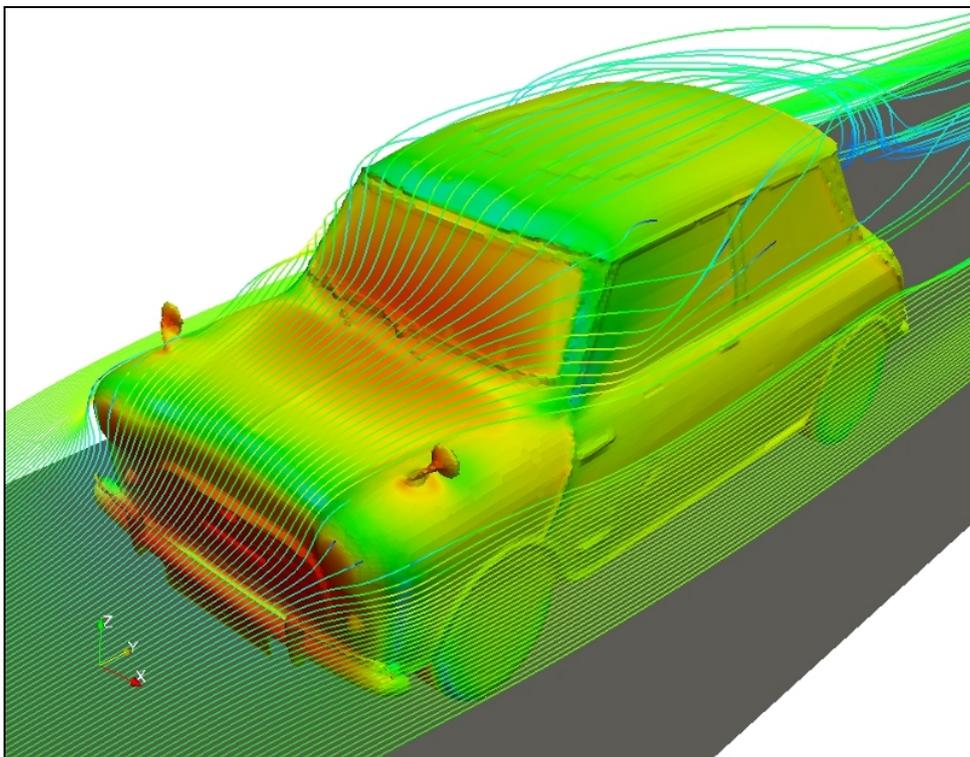
ENDPIECE

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 closes with a fluid-mechanics image provided by Dr Andrew King of the Fluid Dynamics Research Group at Curtin University. More submissions are requested for future editions of the newsletter and for the AFMS gallery.



CFD flow field (pressure contours and streamlines) over an Austin Mini at 72 km/h computed with RANS $k-\omega$ turbulence model using OpenFOAM on a 48-core commodity cluster; simulation by AFMS member Andrew King