

AUSTRALIAN ACADEMY OF SCIENCE

National Committees for Science: ANNUAL REPORT TO COUNCIL on 2008 activities

NATIONAL COMMITTEE FOR: The Mechanical Sciences

CHAIR: Associate Professor Jim Denier

PERIOD COVERED IN THIS REPORT: 1 January - 31 December, 2008

Please complete and return this form by 12 December 2008.

NOTE: This report will be published on the Academy of Science website at www.science.org.au/natcoms

MEETINGS OF THE NATIONAL COMMITTEE

THE NATIONAL COMMITTEE MET ON:

The National Committee for the Mechanical Sciences did not meet in 2008. This was largely due to the role that the Chair, Associate Professor Jim Denier, had in organising the 22nd IUTAM International Congress of Theoretical and Applied Mechanics. This meeting, details of which are included later in this report, took up much of the time of the Chair for the first 9 months of 2008.

THE FOLLOWING MEETINGS ARE PROPOSED FOR 2009 (include date and place, if possible):

A meeting of the NC will take place at the Academy in April or May 2009. Dates will be finalised after consultation with the full membership of the NC.

MEETINGS OF INTERNATIONAL ORGANISATIONS AFFILIATED WITH ICSU

IN 2008 THERE WAS A GENERAL ASSEMBLY OF (include date and place):

The International Union of Theoretical and Applied Mechanics, Adelaide, August 2008.

IN 2009 THERE WILL BE A GENERAL ASSEMBLY OF (include date and place):

The next GENERAL ASSEMBLY/CONGRESS of the International Federation for the Promotion of Mechanism and Machine Science will be held in 2010.

The next GENERAL ASSEMBLY of the International Union of Theoretical and Applied Mechanics will be held in 2010.

I RECOMMEND TO COUNCIL THE FOLLOWING VOTING AUSTRALIAN DELEGATION: (include title, name, address, telephone, email and fax number)

IUTAM:

Associate Professor Jim Denier – School of Mathematical Sciences, The University of Adelaide, 08 8303 5094

Emeritus Professor Ernie Tuck – School of Mathematical Sciences, The University of Adelaide, 08 8303

IFTtoMM

Professor James Trevelyan – School of Mechanical Engineering, The University of Western Australia, 8 6488 3057

Professor Ross McAree, Division of Mechanical Engineering, The University of Queensland, 7 3365 3589.

AUSTRALIAN OFFICE HOLDERS IN ICSU AND AFFILIATED BODIES

AUSTRALIANS WHO HELD OFFICE IN 2008 WERE:

(include all appointed/elected memberships of subsidiary bodies, standing committees, commissions etc. as well as appointments to Bureau/Executive positions in the governing body).

PERSON	INTERNATIONAL BODY	POSITION	TERM OF OFFICE
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Emeritus Professor Ernie Tuck,	IUTAM,	Member of Executive Congress Committee,	2004-2008.
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Professor James Trevelyan,	IFTtoMM,	Executive Council,	
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Prof. Karol MILLER,	IFTtoMM,	Permanent Commission for Education	
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Prof Ross MCAREE,	IFTtoMM,	Chair of Member Organization	
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Dr. John GAL and Dr. Ian PARKIN,	IFTtoMM,	Permanent Commission for the History of Mechanism and Machine Science	
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THE FOLLOWING NOMINATIONS WILL BE MADE IN 2009:

PERSON	INTERNATIONAL BODY	POSITION	TERM OF OFFICE
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<p>ACTIVITIES OF NATIONAL COMMITTEE – Please include comments on progress achieved on projected activities identified in your 2008 Business Plan. 2008 Business plans can be viewed at www.science.org.au/natcoms</p>
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Go to <http://www.science.org.au/reports/2008anrep.htm>, to view the Chairs' Reports on 2007 activities.

I SUBMIT THE FOLLOWING REPORT TO COUNCIL ON THE ACTIVITIES OF THE NATIONAL COMMITTEE IN calendar year 2008 (200-250 words):

On the invitation of the Academy the 22nd International Union of Theoretical and Applied Mechanics (IUTAM) International Congress of Theoretical and Applied Mechanics was hosted by the Australian theoretical and applied mechanics community. The Congress President, Professor Ernie Tuck FAA, welcomed over 1100 delegates, from over 62 countries, to the Adelaide Convention Centre. Chair of the National Committee for Mechanical Sciences, Associate Professor Jim Denier, played a major organisational role as Secretary General of the Congress. A total of 899 papers were presented in 14 parallel sessions during the five days of the Congress. In addition to the contributed papers, there were also opening and closing lectures and 15 invited (sectional) lectures covering all aspect of fluid and solid mechanics. A further highlight of the Congress was the award, for the first time, of the Batchelor Prize in Fluid Mechanics (sponsored by Cambridge University Press) and the Rodney Hill Prize in Solid Mechanics (sponsored by Elsevier). These two major prizes recognise sustained outstanding contributions to the fields of Fluid and Solid Mechanics. The recipient of the Batchelor Prize, Professor Howard Stone of Harvard University, and the recipient of the Rodney Hill Prize, Professor Michael Ortiz of Caltech, presented lectures detailing their outstanding contributions to their respective fields.

The congress was supported by the Australian Mathematical Society, ANZIAM and the University of Adelaide.

[Your Report, as presented here, will be published in April 2009, in the National Committees for Science section of the Academy's Annual Report for 2008-2009].

Please complete and return this form by 12 December 2008 to:

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