

AUSTRALIAN ACADEMY OF SCIENCE

National Committees for Science: ANNUAL REPORT TO COUNCIL on 2010 activities

NATIONAL COMMITTEE FOR: Mechanical Sciences

CHAIR: Jim Denier, The University of Adelaide

PERIOD COVERED IN THIS REPORT: 1 January - 31 December, 2010

Please complete and return this form by 14 January 2011.

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:

21st June, 2010 at the Shine Dome, Canberra

THE FOLLOWING MEETINGS ARE PROPOSED FOR 2011 (include date and place, if possible):

I am proposing to hold one face-to-face meeting, the precise timing of which is yet to be decided. I hope that it will be possible to have this meeting in early June in Canberra.

MEETINGS OF INTERNATIONAL ORGANISATIONS AFFILIATED WITH ICSU

IN 2010 THERE WAS A GENERAL ASSEMBLY OF (include date and place):

The General Assembly of the International Federation for the Promotion of Mechanism and Machine Science was held in 2010.

The General Assembly of the International Union of Theoretical and Applied Mechanics was held in July, 2010 at Cite Universite, Paris.

IN 2011 THERE WILL BE A GENERAL ASSEMBLY OF (include date and place):

The next GENERAL ASSEMBLY/CONGRESS will be held in 200_

The IFToMM World Congresses in Mechanism and Machine Science will be held in Guanajuato, Mexico from June 19–25, 2011

The IUTAM International Congress of Theoretical and Applied Mechanics will be held in Beijing, China in August 2012.

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

Professor Scott Sloan – The University of Newcastle, +612 49216059, scott.sloan@newcastle.edu.au

IFFToM

Professor James Trevelyn, The University of Western Australia
Professor Ross McAree, The University of Queensland

AUSTRALIAN OFFICE HOLDERS IN ICSU AND AFFILIATED BODIES

AUSTRALIANS WHO HELD OFFICE IN 2010 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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Professor James Trevelyan,	IFFToMM,	Executive Council,	to end of 2011.
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THE FOLLOWING NOMINATIONS WILL BE MADE IN 2011:

PERSON	INTERNATIONAL BODY	POSITION	TERM OF OFFICE
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None planned as next GA will be held in 2012 at which time nominations from members of the General Assemblies of IUTAM and IFFToM for members of Executive committees can be considered.

ACTIVITIES OF NATIONAL COMMITTEE – Please include comments on progress achieved on projected activities identified in your 2010 Business Plan. 2010 Business plans can be viewed at www.science.org.au/natcoms

Go to <http://www.science.org.au/reports/2010anrep.html>, to view the Chairs' Reports on 2009 activities.

I SUBMIT THE FOLLOWING REPORT TO COUNCIL ON THE ACTIVITIES OF THE NATIONAL COMMITTEE IN calendar year 2010 (200-250 words):

The National Committee for the Mechanical Sciences met in June 2010 welcoming a number of new members. The meeting was called to discuss the future of the committee and the role it can play in the greater mechanics and mechatronics community. Extensive discussion on the history and future of the committee led to discussion of a refocussing of the committee

away from mechanics and mechatronics towards a more broader committee representing the wide range of activity with Australia that falls under the general title of *Engineering Science*. Engineering science is the broad collection of disciplines that underpin all modern engineering practice. The defining feature of engineering science is the use of advanced mathematics, computation and technology to solve real world problems and provide the knowledge base that engineers require for their work.

As a result of our meeting it was proposed, and accepted, that a formal proposal to reconstitute the National Committee for the Mechanical Sciences as the National Committee for the Engineering Sciences should be developed and put forward to Exec. Comm. for approval. Accompanying this will be a proposal for a revised and expanded membership.

A fundamental role of the new committee will be a more active engagement with its constituency and the active support of new researchers in the field of Engineering Sciences. The current committee has discussed at length the development of "committee awards" that allow the Academy through the NC to recognise outstanding achievements of younger researchers. A formal proposal for these awards will be submitted to Exec. Comm. for consideration later this year.

Associate Professor Jim Denier
Chair, NC for the Mechanical Sciences

[Your Report, as presented here, will be published in the National Committees for Science section of the Academy's Annual Report for 2010-2011].

Please complete and return this form by 14 January 2011:

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