

## NEWSLETTER



President's Address Short Report on IUTAM Bureau Meeting, July 2003 Short Report on IUTAM XCCC Meeting, July 2003 IUTAM Symposia 2004 and 2005 IUTAM Summer School 2004

International Congress, XXI ICTAM, Warsaw, August 2004

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International Union of Theoretical and Applied Mechanics N-2003-2 November 2003

#### President's Address

The Final Announcement for ICTAM'04 (Warsaw, 15-21 August 2004) has now been widely circulated. May I encourage all members of our worldwide community to register and to submit papers in good time. The quadrennial ICTAM provides an unparalleled opportunity for the renewal of friendship and for interaction across the whole field of theoretical and applied mechanics, and should not be missed! For details, see below in this Newsletter

I am very glad to have this opportunity to report that IUTAM's application to the ICSU 2004 grants programme, of which I gave notice in a previous Newsletter, has been successful, and that a grant of \$100K has been awarded to support the foundation of the African Institute for Mathematical Sciences (AIMS) in Cape Town, South Africa, The application was supported by five other International Scientific Unions (IMU, IUGG, IUPAP, IUPAC and IAU) and also by the Third World Academy of Sciences (TWAS). It was further supported by five National Scientific members of ICSU (South Africa, UK, Netherlands, Brazil and Egypt). This exceptionally broad level of support was a tribute to the quality of the proposal and ensured its success. IUTAM has committed a further \$20K from its own resources in support of the project.

The proposal falls within the ICSU priority area `Capacity Building in Science Education', and will allow IUTAM to contribute significantly to this field. One of our recently established Working Parties is concerned with Capacity Building in the Mechanical Sciences, an indication of our growing commitment to this global need. The ICSU grant will allow IUTAM to be involved from the outset in a flagship enterprise in capacity building in the African continent.

Part of the grant will be used to finance a Workshop on Capacity Building in the Mathematical Sciences which will be held at AIMS 13-16 April 2004. This will bring together representatives of many of the African States to share experience and problems of the teaching of mathematics and the mathematical sciences in Africa, and representatives of the International Scientific Unions, and particularly IUTAM, concerned with the application of mathematics in real-world science.

AIMS was launched at an Opening Meeting held on 18/19 September, and 30 graduate students are now enrolled in the first one-year AIMS diploma course in which theoretical and applied mechanics plays a significant part. Ten further South African students will be enrolled in January 2004. The ICSU grant is contributing to the funding of these students.

Full information concerning AIMS may be found at the website <a href="http://www.aimsforafrica.org">http://www.aimsforafrica.org</a> . Information concerning the above workshop will be posted on this website in due course. In the meantime, any expression of interest will be welcome.

Keith Moffatt President, IUTAM

## Short Report on IUTAM Bureau Meeting, July 2003

In 2003 the IUTAM Bureau meeting was held in two sessions on 5 and 6 July in the building of the Estonian Academy of Sciences in Tallinn. Among the items discussed at the meeting were the following:

- Matters concerning Adhering and Affiliated Organizations.
   The state of affairs with respect to the IUTAM Archive at CISM was discussed.
- Matters concerning IUTAM Working Parties.
   The state of affairs with respect to the membership of the Working Parties was reviewed.
- Matters concerning ICSU and Inter-Union Committees.
   The results of the ICSU General Assembly held in Rio de Janeiro in September 2002 were discussed, as was the ICSU Grants Programme.
- Reports by the Treasurer and the Secretary-General.
   Based on the recommendations of a Study Group and the Solids Symposia
   Panel it was decided to accept the proposal for an IUTAM Symposium on
   Multiscale Modelling of Damage and Fracture Processes in Composite
   Materials for 2005.
  - It was agreed to ask the Fluids Symposia Panel for advice on a proposal for an IUTAM-CISM Summer School on Dispersion of Particles in Turbulent Flows for 2005.
- Assessment actions.
   It was agreed to compose a draft report on the closure of the Assessment Actions for discussion by the General Assembly next year.
- Agreement with Kluwer. It was agreed to review the Agreement with Kluwer and to put this item on the agenda of the General Assembly next year.

Dick van Campen Secretary-General, IUTAM

## Report on the meeting of the Executive of the Congress Committee Tallinn, Estonia, 5-6 July 2003

This was the final meeting of the Executive before the 21st ICTAM in Warsaw in August 2004. It was almost entirely taken up with detailed planning of the Congress and preparation of the Final Announcement. In particular, the lists of speakers for the Opening and Closing Lectures, the Sectional Lectures and the Introductory Lectures for the Mini-Symposia were reviewed, as was the list of co-chairs for the Prenominated Sessions (PNS). Some gaps remained in the latter and suggestions for filling them were gratefully received by the Secretary. One new PNS, on Education in Mechanics, was added to the list.

Members of the Executive made suggestions for changes to the draft of the Final Announcement that had been prepared by the Local Organising Committee (LOC). These changes have been implemented, and the lists of names completed, and the Final Announcement can now be viewed on the Congress website (http://ictam04.ippt.gov.pl).

#### Other matters discussed and finalised were:

- · electronic paper submission and handling procedure;
- · mechanism of support for younger participants;
- $\cdot \quad \text{timetable for the countdown to the Congress;} \\$
- · Congress budget and registration fee;
- Tasks for the International Papers Committee, which will meet in Warsaw in March, 2004.

There was a brief discussion of preliminary actions for choosing the location of the 22nd ICTAM in 2008. Two firm bids have been received; it was agreed to announce to the Mechanics community that the deadline for the final forms of all bids to be received by the Secretary, including any new bids, should be 31 May, 2004.

Tim Pedley Secretary Congress Committee, IUTAM

## **IUTAM Symposia 2004**

04-1 (GA.02-12) IUTAM Symposium on Size effects on Material and

Structural Behavior at Micron- and Nanometer-

Scales

Place: Hong Kong, China
Date: May 30 – June 4, 2004

Chairman: **Prof. P. Tong** 

Hong Kong University of Science & Technology, Department of Mechanical Engineering, Clear Water

Bay, Hong Kong **Email**: pintong@ust.hk

IUTAM Representative on Scientific Committee: Prof. L. B. Freund

04-2 (GA.02-11) IUTAM Symposium on Mechanics of Biological

Tissue

Place: Graz, Austria

Date: June 27-July 2, 2004 Chairman: Prof. G. Holzapfel

Institute for Structural Analysis, Computational Biomechanics, Schiesstattgasse 14/B, A-8010 Graz,

Austria

Email: gh@biomech.tu-graz.ac.at

Co-Chairman: **Prof. R.W. Ogden** 

University of Glasgow, Department of Mathematics,

Glasgow G12 8QW, UK, **Email**: rwo@maths.gla.ac.uk

IUTAM Representative on Scientific Committee: Prof. J. Engelbrecht

04-3 (GA.02-04) IUTAM Symposium on Non-Uniqueness of Solutions

to the Navier-Stokes Equations and their Connection

with Laminar-Turbulent Transition

Place: Manchester, UK
Date: August 9 – 11, 2004
Chairman: Prof. T. Mullin

Manchester University, Department of Physics,

Manchester M13 9PL, UK

Email: tom@reynolds.ph.man.ac.uk

IUTAM Representative on Scientific Committee: Prof. W. Schiehlen

04-4 (GA.02-02) IUTAM Symposium on One Hundred Years of

**Boundary Layer Research** 

Place: Göttingen, Germany
Date: August 12-14, 2004
Chairman: Prof. G.E.A. Meier

Institute of Aerodynamics and Flow, DLR Aerospace Center, Bunsenstrasse 10, 37073 Göttingen, Germany

Email: g.e.a.meier@dlr.de

IUTAM Representative on Scientific Committee: Prof. H.K. Moffatt

04-5 (GA.02-07) IUTAM Symposium on Elastohydrodynamics of

**Rough Surfaces** 

Place: Cardiff, UK

Date: September 1-3, 2004 Chairman: Prof. R.W. Snidle

Cardiff University, School of Engineering, Cardiff CF

24 0YF, UK

Email: snidler@cf.ac.uk

IUTAM Representative on Scientific Committee: Prof. D.H. van Campen

04-6 (GA.02-14) IUTAM Symposium on Mechanics and Reliability of

**Actuating Materials** 

Place: **Beijing, China** 

Date: September 1-3, 2004

Chairman: Prof. W. Yang

Tsinghua University, Department of Engineering

Mechanics, Beijing 100084, China **Email**: yw-dem@tsinghua.edu.cn

IUTAM Representative on Scientific Committee: Prof. J. Salençon

GA.02-01 IUTAM Symposium on Elementary Vortices and

**Coherent Structures: Significance in Turbulence** 

**Dynamics** 

Place: Kyoto, Japan

Date: October 26-28, 2004

Chairman: **Prof. S. Kida** 

Theory and Computer Simulation Center, National Institute for Fusion Science, Oroshi-cho 322-6, Toki,

509-5292, Japan

Email: Kida@toki.theory.nifs.ac.jp

IUTAM Representative on Scientific Committee: Prof. H.K. Moffatt

GA.02-05 IUTAM Symposium on Laminar-Turbulent

**Transition** 

Place: **Bangalore, India** 

Date: December 13–17, 2004 Chairman: Dr. R. Govindarajan

Jawaharlal Nehru Centre for Advanced Scientific

Research, Fluid Dynamics Unit, Jakkur, Bangalore 560

064, India

Email: rama@jncasr.ac.in

IUTAM Representative on Scientific Committee: Prof. R. Narasimha

GA.02-06 IUTAM Symposium on Recent Advances in Disperse

**Multiphase Flow Simulation** 

Place: **Urbana-Champaign, IL, USA**Date: **2004, no dates available yet** 

Chairman: **Prof. S. Balachandar** 

University of Illinois at Urbana-Champaign, Department of Theoretical and Applied Mechanics, 216 Talbot Lab,

Urbana, IL 61801, USA **Email**: s-bala@uiuc.edu

Co-Chairman: **Prof. A. Prosperetti** 

Johns Hopkins University, Department of Mechanical Engineering, 122 Latrobe Hall, 34th & Charles Streets,

Baltimore, MD 21218, USA, **Email**: Prosperetti@jhu.edu

IUTAM Representative on Scientific Committee: Prof. H.K. Moffatt

## **IUTAM Symposia 2005**

GA.02-03 IUTAM Symposium on Flow Control with Mems

Place: London, UK

Date: 2005, no dates available yet

Chairman: **Dr. J.F. Morrison** 

Department of Aeronautics, Imperial College, London

SW7 2BY, UK

Email: j.morrison@ic.ac.uk

IUTAM Representative on Scientific Committee: Prof. C. Cercignani

GA.02-08 IUTAM Symposium on Mechanical Behavior and

**Micro-mechanics of Nanostructured Materials** 

Place: **Beijing, China** 

Date: 2005, no dates available yet

Chairman: **Prof. Y. Bai** 

Chinese Academy of Sciences, Institute of Mechanics,

Beijing 100080, China

Email: Baiyl@lnm.imech.ac.cn

IUTAM Representative on Scientific Committee: Prof. L. B. Freund

GA.02-09 IUTAM Symposium on Multiscale Problems in

**Multibody System Contacts** 

Place: Stuttgart, Germany

Date: 2005, no dates available yet

Chairman: **Prof. P. Eberhard** 

University of Stuttgart, Institute B of Mechanics,

Stuttgart, Germany

Email: eberhard@mechb.uni-stuttgart.de

IUTAM Representative on Scientific Committee: Prof. W. Schiehlen

GA.02-10 IUTAM Symposium on Impact Biomechanics-from

**Fundamental Insights to Applications** 

Place: **Dublin, Ireland**Date: **July 4-8, 2005**Chairman: **Dr. M. Gilchrist** 

National University of Ireland - Dublin, Department of Mechanical Engineering, Belfield, Dublin 4, Ireland

Email: Michael.Gilchrist@ucd.ie

IUTAM Representative on Scientific Committee: Prof. D.H. van Campen

GA.02-13 IUTAM Symposium on Vibration Control of

**Nonlinear Mechanisms and Structures** 

Place: Munich, Germany

Date: 2005, no dates available yet

Chairman: **Prof. H. Ulbrich** 

TU München, Lehrstuhl Angewandte Mechanik, Boltzmannstrasse 15, 85748 Garching, Germany

Email: ulbrich@amm.tu-muenchen.de

IUTAM Representative on Scientific Committee: Prof. W. Schiehlen

GA.02-15 IUTAM Symposium on Topological Design

**Optimization of Structures, Machines and Materials** 

- Status and Perspectives

Place: Aalborg and Lyngby, Denmark
Date: 2005, no dates available vet

Chairman: **Prof. M.P. Bendsøe** 

Technical University of Denmark, Department of

Mathematics, Building 303, DK-2800 Lyngby, Denmark

Email: M.P.Bendsoe@mat.dtu.dk

Co-Chairman: **Prof. N. Olhoff** 

Aalborg University, Institute of Mechanical Engineering

Pontoppidanstraede 101, DK-9220 Aalborg East,

Denmark

Email: no@ime.auc.dk

Co-Chairman: **Prof. O. Sigmund** 

Technical University of Denmark, Department of Mechanical Engineering, Section of Solid Mechanics,

Building 404, DK-2800 Lyngby, Denmark

Email: sigmund@mek.dtu.dk

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

GA.02-16 IUTAM Symposium on Multiscale Modelling of

**Damage and Fracture Processes in Composite** 

Materials

Place: Lublin, Poland

Date: 2005, no dates available yet

Chairman: Prof. T. Sadowski

Technical University of Lublin, Department of Applied Mechanics, Nadbyrstrzycka 36, PL 20-618 Lublin,

Poland

Email: tskms@archimedes.pol.lublin.pl

IUTAM Representative on Scientific Committee: Prof. J. Salençon

## **IUTAM Summer Schools**

#### 2004 IUTAM Summer School on Biomechanics and Moleculars

Place: **Beijing, China** 

Date: 2004, no dates available yet

Coordinator: Prof. J. Fang, Beijing University, Department of

Mechanics & Engineering Science, Beijing 100871, PR

China

Email: jfang@pku.edu.cn

# 2005 IUTAM-CISM Summer School on Dispersion of Particles in Turbulent Flows

Place: Udine, Italy

Date: 2005, no dates available yet

Coordinators: Prof. Alfredo Soldati, Udine, Italy

Prof. Michael Reeks, Ispra (Va), Italy

Email: soldati@uniud.it and mike.reeks@jrc.it

## XXI International Congress of Theoretical and Applied Mechanics 15 – 21 August 2004, Warsaw, Poland

(Home Page, http://ictam04.ippt.gov.pl)

The International Congresses on Theoretical and Applied Mechanics (ICTAM), organized every four years by IUTAM, bring together scientists from all over the world for the purpose of exchanging information about recent developments in the field. Participation is unrestricted.

Below, the current state of affairs is given with respect to the opening and closing lectures, the mini symposia and the pre-nominated sessions.

#### **Opening Lecturer:**

Prof. L. van Wijngaarden (The Netherlands): Interplay between air and water

#### Closing Lecturer:

Prof. K. Sobczyk (Poland): Stochastic dynamics of engineering systems

#### Sectional Lecturers:

Jorge Ambrosio (Portugal): Multibody dynamics: bridging multidisciplinary applications

Konrad Bajer (Poland): Rapid formation of strong gradients and diffusion in the transport of scalar and vector fields

Daniel Beysens (France): Near-critical point hydrodynamics and microgravity John F. Brady (USA): Suspensions: from micromechanics to macroscopic behaviour Huajian Gao (USA/Germany): Nanoscale mechanics of biological materials

Tom J. R. Hughes (USA): Variational and multiscale methods in turbulence Roland Keunings (Belgium): Non-Newtonian fluid mechanics using molecular theory

Edwin Kreuzer (Germany): Nonlinear dynamics in ocean engineering Pierre Ladevèze (France): A bridge between the micro- and mesomechanics of laminates: fantasy or reality

Marcel Lesieur (France): Turbulence and large-eddy simulations

Anatoly Neishtadt (Russia): *Probability phenomena in perturbed dynamical systems* Raymond W. Ogden (UK): *Mechanics of rubberlike solids* 

André Preumont (Belgium): Some issues in active vibration control of smart structures

Peter B. Rhines (USA): Ocean circulation and its influence on climate

Erich Sackmann (Germany): Microviscoelasticity of cells: cells as viscoplastic bodies

Dudley A. Saville (USA): Electrokinetics & electrohydrodynamics in microfluidics

Edward A. Spiegel (USA): Problems in astrophysical fluid dynamics

Harry L. Swinney (USA): Scaling in quasi-2D turbulence experiments in a rotating flow

#### Mini Symposia

#### MS1. Smart materials and structures

- N. Sottos (USA) Chair
- J. Holnicki-Szulc (Poland) Co-Chair

**Introductory Lectures:** 

- R. D. James (USA) A way to search for smart materials with unprecedented physical properties
- W. Ostachowicz (Poland) Elastic wave propagation development for structural health monitoring
- S. R. White (USA) Autonomic healing of polymers and composites

#### MS2. Tissue, cellular and molecular biomechanics

- P. Janmey (USA) Chair
- D. Barthès-Biesel (France), A. Hoger (USA) Co-Chairs Introductory Lectures:
  - C. Schmidt (Netherlands) Molecular mechanics
  - S. Margulies (USA) Tissue mechanics
  - A. Mogilner (USA) Cell mechanics

## MS3. Mechanics of thin films and nanostructures

- K.S. Kim (USA) Chair
- Z. Suo (USA), H.M. Jensen (Denmark) Co-Chairs

Introductory lectures:

- H. M. Jensen (Denmark) Mechanics of thin film structures
- R Ruoff (USA) Mechanics of nano-structured materials
- Z. Suo (USA) Mechanics of micro- and nano-structural evolution

## MS4. Microfluidics

- P. Tabeling (France) Chair
- R. J. Adrian (USA), J. Santiago (USA) Co-Chairs

Introductory Lectures:

- D. S. Stewart (USA) Miniaturization of explosive technology and microdetonics
- J. Santiago (USA) Electrokinetic flow instabilities in microfluidic systems

P. Tabeling (France) Slip, patterns, and other small things in microfluidic systems

#### MS5. Microgravity flow phenomena

- J.C. Legros (Belgium) Chair
- P. Neitzel (USA), J. I. D. Alexander (USA) Co-Chairs

Introductory Lectures:

- G. M. Homsy (USA) Microgravity and microscale fluid mechanics
- M. Louge (USA) Collisional granular flows with and without gas interactions in microgravity
- D. Weaire (Ireland) Foams, films and surfaces in microgravity

#### MS6. Atmosphere and ocean dynamics

- J. Sommeria (France) Chair
- M.E. McIntyre (U.K.) Co-Chair

**Introductory Lectures:** 

- O. Bokhove (Netherlands) Wave-vortex interactions in the atmosphere and oceans, with applications to climate
- P. H. Haynes (UK) Transport and mixing in the atmosphere
- O. Talagrand (France) Data assimilation into numerical models of the atmospheric and oceanic circulation

#### Pre-Nominated Sessions and chairs

#### Fluid Mechanics

FM1. Biological fluid dynamics

M. Gharib (USA), F. van de Vosse (Netherlands)

FM2. Boundary layers

P. W. Duck (UK), A. Kluwick (Austria)

FM3. Combustion and flames

N. Peters (Germany), P. Wolanski (Poland)

FM4. Complex and smart fluid

B. Khusid (USA), A. L. Yarin (Israel)

FM5. Compressible flow

H. Hornung (USA), TBA

FM6. Computational fluid dynamics (jointly with IACM)

L. Kleiser (Switzerland), W. Schröder (Germany)

FM7. Convective phenomena

G. de Vahl Davis (Australia), K. Zhang (UK)

FM8. Drops and bubbles

J. Eggers (Germany & UK), A. Prosperetti (USA)

FM9. Environmental fluid dynamics

H. E. Huppert (UK), R Narasimha (India)

FM10. Experimental methods in fluid

A. Leder (Germany), J. Westerweel (Netherlands)

FM11. Flow control

J. B. Freund (USA), M. Gad-el-Hak (USA)

FM12. Flow in porous media

A. K. Mojtabi (France), V. Nikolaevskiy (Russia)

FM13. Flow instability and transition

P. Huerre (France), P.A. Monkewitz (Switzerland)

FM14. Flow in thin film

N. Aksel (Germany), V. Shkadov (Russia)

FM15. Fluid mechanics of materials

F. Dupret (Belgium), R. Moreau (France)

FM16. Fluid mechanics of suspensions

R. Bonnecaze (USA), E. Guazzelli (France)

FM17. Granular flows

R. Behringer (USA), I. Goldhirsch (Israel)

FM18. Low-Reynolds-number flow

R. H. Davis (USA), C. Pozrikidis (USA)

FM19. Magnetohydrodynamics

P. A. Davidson (UK), A. Thess (Germany)

FM20. Multiphase flows

S. Balachandar (USA), J. Magnaudet (France)

FM21. Solidification and crystal growth

M. Glicksman (USA), M. G. Worster (UK)

FM22. Stirring and mixing

H. Aref (USA), E. Villermaux (France)

FM23. Topological fluid mechanics

P. L. Boyland (USA), K. Ohkitani (Japan)

FM24. Turbulence

O. Metais (France), R. D. Moser (USA)

FM25. Vortex dynamics

G. J. F. van Heijst (Netherlands), E. Krause (Germany)

FM26. Waves

W. K. Melville (USA), V. I. Shrira (UK)

#### **Solid Mechanics**

SM1. Computational solid mechanics (jointly with IACM)

T. Belytschko (USA), P. Wriggers (Germany)

SM2. Contact and friction mechanics (jointly with IAVSD)

I. Goryacheva (Russia), A.I. Klarbring (Sweden), G. Szefer (Poland)

SM3. Control of structures

F. Chernousko (Russia), S. Pellegrino (UK)

SM4. Damage mechanics

M. Chrzanowski (Poland), P. Steinmann (Germany)

SM5. Dynamic plasticity of structures

N. Jones (UK), T. Wierzbicki (USA)

SM6. Elasticity

R. Kienzler (Germany), L. Wheeler (USA)

SM7. Experimental methods in solid mechanics

I. Emri (Slovenia), L. Jose Freire (Brazil)

SM8. Fatigue

J. Dominguez (Spain), K. Reifsnider (USA)

*SM9. Fracture and crack mechanics* (jointly with ICF)

D. Gross (Germany), A. Needleman (USA)

SM10. Functionally graded materials

R. Batra (USA), G. H Paulino (USA)

SM11. Impact and wave propagation

A Norris (USA), K Wilmanski (Germany)

SM12. Material instabilities

D. Bigoni (Italy), H. Petryk (Poland)

SM13. Mechanics of composites

S. Adali (South Africa), N. A. Fleck (UK)

SM14. Mechanics of phase transformations (jointly with IACM)

F. D. Fischer (Austria), A. Molinari (France)

SM15. Mechanics of porous materials

W. Ehlers (Germany), J. M. Huyghe (Netherlands)

SM16. Mechatronics

W. O. Schiehlen (Germany), M. Tomizuka (USA)

SM17. Multibody dynamics

M. Geradin (Belgium), F. Pfeiffer (Germany)

SM18. Plasticity and viscoplasticity

E. van der Giessen (Netherlands), P. Perzyna (Poland)

SM19. Plates and shells (jointly with IACM)

H. Mang (Austria), E. Ramm (Germany)

SM20. Rock mechanics and geomechanics

Z. Mroz (Poland), I. Vardoulakis (Greece)

SM21. Solid mechanics in manufacturing

B. Heimann (Germany), T. Inoue (Japan)

SM22. Stability of structures

Zs. Gaspar (Hungary), S. Kyriakides (USA)

SM23. Stochastic micromechanics

Y. Brechet (France), Y. Shibutani (Japan)

SM24. Structural optimization (jointly with ISSMO)

K. K. Choi (USA), J. Herskovits (Brazil)

SM25. Structural vibrations

I. Blekhman (Russia), K. Popp (Germany)

SM26. Vehicle dynamics

S. Iwnicki (UK), R. Sharp (UK)

SM27. Viscoelasticity and creep

F. Cocks (UK), N. Ohno (Japan)

## Topics involving both fluid mechanics and solid mechanics

FSM1. Acoustics

T. Geers (USA), N. Peake (UK)

FSM2. Chaos in fluid and solid mechanics

I. Mezic (USA), G. Rega (Italy)

FSM3 Continuum mechanics

K. R. Rajagopal (USA), TBA

FSM4. Fluid-structure interaction

J. Grue (Norway), M. P. Païdoussis (Canada)

FSM5. Mechanics of foams and cellular materials

S. Hilgenfeldt (Netherlands), D. L. Weaire (Ireland)

FSM6. Multiscale phenomena in mechanics

A. Carpinteri (Italy), C. Miehe (Germany)

FSM7. Education in mechanics

R. Engel (USA), B. Karihaloo (UK)

#### **Notice on IUTAM Symposia**

The IUTAM Symposia are reserved to invited participants. Those wishing to participate in an IUTAM Symposium are therefore advised to please contact the Chairman of the Scientific Committee in due time in advance of the meeting.

As from January 1996, Kluwer Academic Publisher is the preferred publisher of the refereed proceedings of the IUTAM Symposia (in rare cases the Proceedings are published as special issues of appropriate journals). A listing of all the published volumes may be found on the IUTAM website.

Prior to the publication by Kluwer, a short report of an IUTAM symposium may be found on the IUTAM website, as published in the IUTAM Annual Reports (http://www.iutam.net/iutam/Publications/index.php/3).

#### **IUTAM** is a member of **ICSU**

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The IUTAM Newsletter is available (free of charge) to whom it concern upon request from the IUTAM Secretary-General.

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