



# NEWSLETTER

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**President's Address**  
**From the Office of the Secretary-General**  
**IUTAM Symposia 2009, 2010 and 2011**  
**IUTAM Summer Schools 2009 and 2010**  
**IUTAM Co-Sponsored Event 2010**

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**International Union of Theoretical and Applied Mechanics**  
**N-2009-1**

**June 2009**

## President's Address

This is the first opportunity I have had publicly to acknowledge the great honour that I have received in being elected President of IUTAM. I thank the community most warmly for the confidence it has placed in me. A principal purpose of IUTAM is to facilitate and stimulate research in mechanics and its applications throughout the world, and perhaps especially to promote its study in countries where the local mechanics community is small or poorly supported. The responsibility of leading these activities is an important one which I hope I can fulfil effectively. The job will certainly be fun, both because it is always exciting to be brought into contact with unfamiliar parts of the field and because of the pleasure to be gained through friendly contact with colleagues everywhere.

Among these colleagues the ones I shall have most contact with are the new Secretary-General, Frédéric Dias, and the new Congress Committee Secretary, Hassan Aref. I have worked with Hassan on the Congress Committee for many years, and am certain that its business will be conducted with insight and dispatch, but both Frédéric and I are new to the Bureau. This would be daunting if it were not for the fact that, supporting us on the Bureau, are the calm and immensely knowledgeable figures of the former President, Ben Freund, and the Treasurer, Niels Olhoff. I don't think we can go far astray since we have their support, as well as that of the other Bureau members, Felix Chernousko, Isaac Goldhirsch, Narinder Gupta and André Thess.

We have been saddened in recent months by the deaths of two longstanding IUTAM colleagues. Paul Germain, President from 1988 to 1992, died on 26 February at the age of 89. As well as being a stalwart of IUTAM he was also intensely devoted to the Académie des Sciences in Paris, and is perhaps best remembered for his early work in compressible aerodynamics and, later, his scholarly formulation and exposition of the fundamentals of continuum mechanics. On 11 March, Ernie Tuck, President of ICTAM 2008 in Adelaide, succumbed to the cancer that had afflicted him since early 2007. He was on such good form during last year's Congress that we hoped he would remain with us for much longer. In mechanics he was best known for his fundamental studies on aerodynamics, ship hydrodynamics and free-surface flows. Both these two giants of the field will be sorely missed.

The 2009 meetings of the Bureau and Congress Committee Executive will take place in Beijing in August, where the early planning for the 2012 ICTAM will be reviewed. The Bureau will be discussing policy matters that will have to go before the next General Assembly. In a break with recent tradition, the 2010 General Assembly and Congress Committee will not be held in the home institution of the President, since the corresponding meetings were held in Cambridge as recently as 2002, but in Paris, the home of the Secretary-General, an exciting city which it is always a pleasure to visit. The date will be the weekend of 17-18 July 2010.

I am looking forward eagerly to the next four years, and hope to have the opportunity of meeting a large number of the readers of this message, at ICTAM 2012 if not before.

Tim Pedley  
President of IUTAM  
Cambridge

## **From the Office of the Secretary-General**

### *Preparing for tomorrow*

In the previous newsletter, I wrote about the priorities in the next years : to make the IUTAM website a unique tool for our community with state-of-the-art capabilities and to prepare a report on IUTAM's future publication policy. I am happy to report that progress has been made in both directions. The new website will be operational in the last quarter of 2009 and a survey has been conducted among organisers of IUTAM symposia in order to develop recommendations for the future publication of proceedings. A report has been prepared, publishers have been contacted and their proposals will be discussed during the Bureau meeting in Beijing in August.

### *IUTAM Report 2008*

The IUTAM Report 2008 is scheduled to be distributed in July 2009. It will contain in particular the minutes of the General Assembly held in Adelaide in August 2008.

Frédéric Dias  
Secretary-General of IUTAM  
Cachan

**IUTAM Symposia 2009****09-1 (GA.06-13) IUTAM Symposium on Dynamic Fracture and Fragmentation**

Place: Austin, Texas, USA  
Date: March 08 - March 13, 2009  
Chairman: **Prof. K. (Krishnaswamy) Ravi-Chandar**  
The University of Texas at Austin  
Center for Mechanics of Solids, Structures and Materials  
210 E. 24th Street, WRW 117B  
1 University Station, C0600  
Austin, Texas 78712-0235  
USA  
**Email:** kravi@mail.utexas.edu

IUTAM Representative on Scientific Committee: Prof. L.B. (Ben) Freund

**09-2 (GA.06-09) IUTAM Symposium on Emerging Trends in Rotor Dynamics**

Place: New Delhi, India  
Date: March 23 - March 26, 2009  
Chairman: **Prof. K. Gupta**  
Indian Institute of Technology, Delhi  
Mechanical Engineering Department  
PO: IIT Haus Khas  
New Delhi – 10016 India  
**Email:** kgupta@mech.iitd.ernet.in

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

**09-3 (GA.06-08) IUTAM Symposium on Recent Advances of Acoustic Waves in Solids**

Place: Taipei, China-Taipei  
Date: May 25 - May 28, 2009  
Chairman: **Prof. T.-T. (Tsong-Tsong) Wu**  
National Taiwan University  
Institute of Applied Mechanics  
Taipei 106 China-Taipei  
**Email:** wutt@ndt.iam.ntu.edu.tw

IUTAM Representative on Scientific Committee: Prof. J. (Jüri) Engelbrecht

**09-4 (GA.06-04) IUTAM Symposium on Laminar-Turbulent Transition**

Place: Stockholm, Sweden  
Date: June 23 - June 26, 2009  
Chairman: **Prof. D. (Dan) Henningson**  
Royal Institute of Technology (KTH)  
Department of Mechanics  
Osquars Backe 18  
SE-10044 Stockholm Sweden  
**Email:** henning@mech.kth.se

IUTAM Representative on Scientific Committee: Prof. P. (Patrick) Huerre

**09-5 (GA.06-06) IUTAM Symposium on The Vibration Analysis of Structures with Uncertainties**

Place: St. Petersburg, Russia  
Date: July 06 - July 10, 2009  
Chairman: **Prof. A. (Alexander) Belyaev**  
Russian Academy of Sciences  
Institute of Problems in Mechanical Engineering  
V.O., Bolshoi pr. 61  
St. Petersburg 199178 Russia  
**Email:** belyaev@director.ipme.ru  
Co-Chairman: Prof. R. (Robin) Langley

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

**09-6 (GA.06-03) IUTAM Symposium on The Physics of Wall-bounded Turbulent Flows on Rough Walls**

Place: Cambridge, UK  
Date: July 07 - July 09, 2009  
Chairman: **Dr. T.B. (Timothy) Nickels**  
University of Cambridge  
Engineering Department  
Trumpington Street  
Cambridge CB2 1PZ UK  
**Email:** tbn22@eng.cam.ac.uk

IUTAM Representative on Scientific Committee: Prof. A. (Alfred) Kluwick

**09-7 (GA.06-16) IUTAM Symposium on Multiscale Modelling of Fatigue, Damage and Fracture in Smart Materials Systems**

Place: TU Bergakademie Freiberg, Germany  
Date: September 01 - September 04, 2009  
Chairman: **Prof. M. (Meinhard) Kuna**  
Technische Universitaet Bergakademie Freiberg  
Institute of Mechanics and Fluid Dynamics  
09596 Freiberg Germany  
**Email:** Meinhard.Kuna@imfd.tu-freiberg.de

IUTAM Representative on Scientific Committee: Prof. W. (Wei) Yang

**09-8 (GA.06-05) IUTAM-ISIMM Symposium on Mathematical Modeling and Physical Instances of Granular Flows**

Place: Reggio Calabria, Italy  
Date: September 14 - September 18, 2009  
Chairman: **Prof. D. (Joe) Goddard**  
University of California at San Diego  
Department of Mechanical and Aerospace Engineering  
9500 Gilman Drive  
La Jolla, CA 92093-0411 USA  
**Email:** jgoddard@ucsd.edu

IUTAM Representative on Scientific Committee: Prof. C. (Carlo) Cercignani



**IUTAM Symposia 2010****GA 08-01 (=F.2) IUTAM Symposium on Computational Aero-Acoustics (CAA) for Aircraft Noise Prediction**

Place: Southampton, UK  
Date: March 29 - March 31, 2010  
Chairman: **Prof. J. (Jeremy) Astley**  
University of Southampton  
Institute of Sound and Vibration Research  
Highfield  
Southampton SO17 1BJ UK  
**Email:** rja@isvr.soton.ac.uk

IUTAM Representative on Scientific Committee: Prof. A. (Alfred) Kluwick

**GA. 08-07 (=S.1) IUTAM Symposium on Nonlinear Stochastic Dynamics and Control**

Place: Hangzhou, China  
Date: May 10 - May 14, 2010  
Chairman: **Prof. W.Q. (Weiqiu) Zhu**  
Zhejiang University  
Department of Mechanics  
310027 Hangzhou China  
**Email:** wqzhu@yahoo.com

Co-Chairman: Prof. Y.K. (Mike) Lin

IUTAM Representative on Scientific Committee: Prof. W. (Werner) Schiehlen

**GA 08-15 (=S.15) IUTAM Symposium on Dynamics Modeling and Interaction Control in Virtual and Real Environments**

Place: Budapest, Hungary  
Date: June 07 - June 11, 2010  
Chairman: **Prof. G. (Gábor) Stépán**  
Budapest University of Technology and Economics  
Department of Applied Mechanics  
Muegyetem rkp 5  
H-1111 Budapest Hungary  
**Email:** stepan@mm.bme.hu

IUTAM Representative on Scientific Committee: Prof. F.L. (Felix)  
Chernousko

**GA 08-14 (=S.14) IUTAM Symposium on Nonlinear Dynamics for Advanced Technologies and Engineering Design (NDATED)**

Place: Aberdeen, UK  
Date: July 27 - July 30, 2010  
Chairman: **Prof. M. (Marian) Wiercigroch**  
University of Aberdeen, School of Engineering  
Centre for Applied Dynamics Research  
Kings College  
AB24 3UE Aberdeen UK  
**Email:** m.wiercigroch@abdn.ac.uk  
Co-Chairman: Prof. G. (Giuseppe) Rega

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

**GA 08-12 (=S.10) IUTAM Symposium on Analysis and Simulation of Human Motion**

Place: Leuven, Belgium  
Date: September 13 - September 15, 2010  
Chairman: **Prof. J. (Jos) van der Sloten**  
K.U. Leuven  
Faculty of Engineering BMGO  
Celestijnenlaan 300c  
3001 Leuven Belgium  
**Email:** jos.vandersloten@mech.kuleuven.be

IUTAM Representative on Scientific Committee: Prof. F. (Friedrich) Pfeiffer

**GA 08-03 (=F.4) IUTAM Symposium on Bluff Body Wakes and Vortex-Induced Vibrations**

Place: Capri Island, Italy  
Date: *2010, no exact dates available yet*  
Chairman: **Prof. C.H.K. (Charles) Williamson,**  
Cornell University  
Department of Mechanical and Aerospace  
Engineering  
252 Upson Hall  
NY 14853-7 Ithaca USA  
Co-Chairman **Dr. T. (Thomas) Leweke**  
CNRS / Université Aix- Marseille I & II  
Institut de Recherche sur les Phénomènes Hors  
Equilibre (IRPHE)  
49, rue F. Joliot-Curie - B.P. 146  
F-13384 Marseille Cedex 13 France  
**Emails:** cw26@cornell.edu  
Thomas.Leweke@irphe.univ-mrs.fr

IUTAM Representative on Scientific Committee: Prof. P.A. (Peter) Monkewitz

**GA 08-08 (=S.2) IUTAM Symposium on Surface Effects in the  
Mechanics of Nanomaterials and  
Heterostructures**

Place: Beijing, China  
Date: *2010, no exact dates available yet*  
Chairman: **Prof. A. (Alan) Cocks**  
University of Oxford  
Department of Engineering Science  
Park Road  
OX1 3PJ Oxford UK  
**Email:** alan.cocks@eng.ox.ac.uk  
Co-Chairman: Prof. J.-X. (Jianxiang) Wang

IUTAM Representative on Scientific Committee: Prof. B.L. (Bhushan)  
Karihaloo

**IUTAM Symposia 2011****GA 08-09 (=S.3) IUTAM Symposium on Linking Scales in Computations: From Microstructure to Macro-scale Properties**

Place: Shalimar, FL, USA  
Date: May 16 - May 19, 2011  
Chairman: **Prof. O. (Oana) Cazacu**  
University of Florida  
REEF  
1350 N. Poquito Road  
Shalimar FL USA  
**Email:** cazacu@reef.ufl.edu

IUTAM Representative on Scientific Committee: Prof. J.B. (Jean-Baptiste) Leblond

**GA 08-04(=F/S.1) IUTAM Symposium on 50 Years of Chaos: Applied and Theoretical**

Place: Kyoto, Japan  
Date: November 28 - December 02, 2011  
Chairman: **Prof. T. (Takashi) Hikiyara**  
Kyoto University  
Department of Electrical Engineering  
Katsura, Nishikyō  
615-8510 Kyoto Japan  
**Email:** hikiyara@kuee.kyoto-u.ac.jp  
Co-Chairman: Prof. T. (Tsutomu) Kambe

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

**GA 08-02 (=F.3) IUTAM Symposium on Bluff Body Flows**

Place: Kanpur, India  
Date: *2011, no exact dates available yet*  
Chairman: **Prof. S. (Sanjay) Mittal**  
Indian Institute of Technology  
Department of Aerospace Engineering  
UP 208016 IIT Kanpur  
India  
**Email:** smittal@iitk.ac.in  
Co-Chairman: Prof. G. (Gautam) Biswas

IUTAM Representative on Scientific Committee : Prof. T. (Tsutomu) Kambe

**GA 08-05(=F/S.2) IUTAM Symposium on Mechanics of Liquid and Solid Foams**

Place: Austin, TX, USA  
Date: *2011, no exact dates available yet*  
Chairman: **Prof. S. (Stelios) Kyriakides**  
University of Texas at Austin  
Center for Mechanics of Solids, Structures and Materials  
210 East 24th Street  
WRW 110  
TX 78712 Austin USA  
**Email:** skkmail.utexas.edu  
Co-Chairman: Dr. A.M. (Andrew) Kraynik

IUTAM Representative on Scientific Committee: Prof. N.A. (Norman) Fleck

**GA 08-06 (=F/S.3) IUTAM Symposium on Computer Models in Biomechanics: From Nano to Macro**

Place: Stanford, CA, USA  
Date: *2011, no exact dates available yet*  
Chairman: **Dr. E. (Ellen) Kuhl**  
Stanford University  
Dept. of Mechanical Eng & Bioengineering  
496 Lomita Mall, Durand 217  
CA-94305-4 Stanford USA  
**Email:** [ekuhl@stanford.edu](mailto:ekuhl@stanford.edu)  
Co-Chairman: Prof. G.A. (Gerhard) Holzapfel

IUTAM Representative on Scientific Committee: Prof. J. (Jüri) Engelbrecht

**GA 08-10 (=S.6) IUTAM Symposium on Full-field Measurements and Identification in Solid Mechanics**

Place: Cachan, France  
Date: *2011, no exact dates available yet*  
Chairman: **Prof. D. (Horacio) Espinosa**  
Northwestern University  
Department of Mechanical Engineering  
60208-3111 Evanston IL USA  
**Email:** [espinosa@northwestern.edu](mailto:espinosa@northwestern.edu)  
Co-Chairman: Prof. F. (Francois) Hild

IUTAM Representative on Scientific Committee: Prof. G. (Giulio) Maier

**GA 08-11 (=S.9) IUTAM Symposium on Human Body Dynamics:  
From Multibody Systems to Biomechanics**

Place: Waterloo, Canada  
Date: *2011, no exact dates available yet*  
Chairman: **Prof. J.J. (John) McPhee**  
University of Waterloo  
Department of Systems Design Engineering  
N2L 3G1 Waterloo  
Canada  
**Email:** mcphee@real.waterloo.ca

IUTAM Representative on Scientific Committee: Prof. F.L. (Felix)  
Chernousko

**GA 08-13 (=S.13) IUTAM Symposium on Impact Biomechanics in  
Sport**

Place: Dublin, Ireland  
Date: *2011, no exact dates available yet*  
Chairman: **Prof. M.D. (Michael) Gilchrist**  
University College Dublin  
Department of Mechanical Engineering  
Belfield  
Dublin 4  
Ireland  
**Email:** michael.gilchrist@ucd.ie

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



## IUTAM Summer Schools

**2009**

### **IUTAM Spring School on Fluid Mechanics and Geophysics of Environmental Hazards**

Place: Institute of Mathematical Sciences, National University of Singapore, Singapore

Date: April 19 - May 02, 2009

Coordinators: **Prof. Keith Moffatt**

University of Cambridge

Department of Applied Mathematics and Theoretical Physics, Centre for Mathematical Sciences

Wilberforce Road

Cambridge CB3 0WA UK

**Prof. Boo Cheong Khoo (NUS)**

**Emails:** [H.K.Moffatt@damtp.cam.ac.uk](mailto:H.K.Moffatt@damtp.cam.ac.uk)

[imssec@nus.edu.sg](mailto:imssec@nus.edu.sg)

**2009**

### **IUTAM Summer School on Mechanics in Microfluidics**

Place: Peking University, Beijing, China

Date: August 16 – August 21, 2009

Coordinator: **Prof. C.-M. (Chih-Ming) Ho**

University of California, Los Angeles

School of Engineering and Applied Science

Los Angeles, CA 90095-1597 USA

**Email:** [chihming@ucla.edu](mailto:chihming@ucla.edu)

**2010**                      **IUTAM Summer School on Simulation Based  
Engineering & Science for Nano Mechanics,  
Materials and Micro-/Nano Manufacturing**

Place:                      Evanston, IL, USA  
Event dates:              *2010, no exact dates available yet*  
Coordinator:              **Prof. Prof. W. (Wing Kam) Liu**  
Northwestern University  
Department of Mechanical Engineering  
2145 Sheridan Road  
IL 60208-3 Evanston USA  
  
**Email:** w-liu@northwestern.edu

**2010**                      **IUTAM-CISM Summer School on Modelling and  
Simulation of Multiscale Continuum System**

Place:                      Udine, Italy  
Event dates:              *2010, no exact dates available yet*  
Coordinators:              **Prof. T.I. (Tarek) Zohdi**  
University of California at Berkeley  
Dept. Of Mechanical Engineering  
6117 Etcheverry Hall  
Mailstop 1740  
CA 94720-1 Berkeley USA  
**Prof. P. (Panayiotis) Papadopoulos**  
  
**Email:** zohdi@me.berkeley.edu

## **IUTAM Co-Sponsored Event**

### **2010 First Joint International Conference on Multibody System Dynamics**

Place: Institute of Mechatronics and Virtual Engineering,  
Department of Mechanical Engineering Lappeenranta  
University of Technology Finland, Finland

Date: May 24 - May 28, 2010

Coordinator: **Prof. Aki Mikkola**

**Email:** [aki.mikkola@lut.fi](mailto:aki.mikkola@lut.fi)

**Notice on IUTAM Symposia**

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

Short reports of IUTAM symposia may be found on the IUTAM website: (<http://www.iutam.net/iutam/Publications/index.php/3>).

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