



# NEWSLETTER

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**President's Address**

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

**IUTAM Symposia 2005, 2006 and 2007**

**IUTAM Summer Schools 2005 and 2006**

**IUTAM Co-Sponsored Event 2005**

**IUTAM Home Page:**

**<http://www.iutam.net>**

**or: <http://www.iutam.org> or: <http://www.iutam.info>**

**International Union of Theoretical and Applied Mechanics**

**N-2005-1**

**June 2005**

## **President's Address**

Dear Colleagues,

The distribution of this Newsletter provides the opportunity to remind you of several events scheduled for the months ahead that bear on future directions and activities for IUTAM.

In August of 2005, the Bureau will meet in Adelaide, Australia, the site of the 2008 International Congress of Theoretical and Applied Mechanics. The Bureau is charged with executing the decisions reached by the General Assembly at its last meeting in Warsaw and with planning for the next GA meeting which will be in Providence in August of 2006.

In conjunction with the Bureau meeting, the Executive Committee of the Congress Committee (XCCC) will also meet in Adelaide. At this very important meeting, the groundwork will be laid for ICTAM 2008. The members of the Bureau and XCCC will also have the opportunity to visit the venue for the Congress and to experience the local environment.

Finally, the General Assembly of the International Council for Science (ICSU) will meet in Shanghai, China, in October of this year. This is the umbrella organization providing a framework for interaction among the separate international scientific unions and it is funded by the national science academies of its member countries. IUTAM will be capably represented at this meeting by our Vice-President, Professor H. K. Moffatt of Cambridge University.

Suggestions concerning organization of the Congress and recommendations for its content are welcome from the community in advance of these meetings. Please share your ideas with me or with other members of the Bureau at any time.

Ben Freund  
President of IUTAM

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

### *IUTAM Report 2004:*

The IUTAM Report 2004 is scheduled to be distributed in July 2005. It will contain among others the minutes of the General Assembly held in Warsaw in August 2004.

### *IUTAM website developments:*

Following the decisions taken by the General Assembly and the IUTAM Bureau in Warsaw (August 2004), the following changes have been implemented:

- \* In the section on Organization of the IUTAM website the new composition of the IUTAM Bureau, the Congress Committee and the Executive Congress Committee have been introduced, as well as the new listing of the Members-at-Large and the changes in the membership of the IUTAM Working Parties.
- \* Moreover, in the section on Organization the pages on the IUTAM Bureau, the Executive Congress Committee and the Members-at-Large have been completely restructured.
- \* Additionally, in the section on Organization a link has been established at the page on Working Parties to a PDF file containing the updated IUTAM Report on Working Parties.
- \* In the section on Events Calendars the assigned IUTAM Symposia for the years 2006 and 2007 have been introduced, as well as the IUTAM Summer School assigned for 2006 and a co-sponsored event accepted for 2005.
- \* Additionally, in the section on Events Calendars a link has been established at the page on General Assembly meetings to a PDF file containing the minutes of the meetings in Warsaw (August 2004).

- \* In the section on Publications the new agreement with Springer Science and Business Media has been introduced on the page Publishing Agreement with Kluwer.
- \* In the section on History the page on Bureau Prize recipients has been redesigned and the Bureau Prize recipients at ICTAM-2004 have been introduced.

Dick van Campen  
Secretary-General of IUTAM

## IUTAM Symposia 2005

### **05-1 (GA.02-16) IUTAM Symposium on Multiscale Modelling of Damage and Fracture Processes in Composite Materials**

Place: **Kazimierz Dolny, Poland**  
Date: **May 23 – 27, 2005**  
Chairman: **Prof. T. Sadowski**  
Technical University of Lublin, Department of Applied  
Mechanics, Nadbystrzycka 36, PL 20-618 Lublin,  
Poland  
**Email:** [tskms@archimedes.pol.lublin.pl](mailto:tskms@archimedes.pol.lublin.pl)

IUTAM Representative on Scientific Committee: Prof. J. Salençon

### **05-2 (GA.02-08) IUTAM Symposium on Mechanical Behavior and Micro-mechanics of Nanostructured Materials**

Place: **Beijing, China**  
Date: **June 27 – 30, 2005**  
Chairman: **Prof. Y. Bai**  
Chinese Academy of Sciences, Institute of Mechanics,  
Beijing 100080, China  
**Email:** [Baiyl@lnm.imech.ac.cn](mailto:Baiyl@lnm.imech.ac.cn)

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

**05-3 (GA.02-10) IUTAM Symposium on Impact Biomechanics-from  
Fundamental Insights to Applications**Place: **Dublin, Ireland**Date: **July 11 - 15, 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

**05-4 (GA.02-13) IUTAM Symposium on Vibration Control of  
Nonlinear Mechanisms and Structures**Place: **Munich, Germany**Date: **July 18 – 22, 2005**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

**05-5 (GA.02-15) IUTAM Symposium on Topological Design  
Optimization of Structures, Machines and Materials  
- Status and Perspectives**Place: **Aalborg and Lyngby, Denmark**Date: **October 26 – 29, 2005**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-Chairmen: Prof. N. Olhoff, Prof. O. Sigmund

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

**IUTAM Symposia 2006****GA.02-09 IUTAM Symposium on Multiscale Problems in  
Multibody System Contacts**

Place: **Stuttgart, Germany**  
Date: **February 20-23, 2006**  
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 04-01 IUTAM Symposium on Interactions for Dispersed  
Systems in Newtonian and Viscoelastic Fluids**

Place: **DF 04510 Mexico, Mexico**  
Date: **March 26-31, 2006**  
Chairman: **Prof. G.M. Homsy**  
University of California at Santa Barbara, Department of  
Mechanical and Environmental Engineering, Santa  
Barbara, CA 93106-5070, USA  
**Email: bud@engineering.ucsb.edu**  
Co-Chairman: **Dr. J.R. Zenit**

IUTAM Representative on Scientific Committee: Prof. T. Kambe

**GA 04-13 IUTAM Symposium on Plasticity at the Micron Scale**

Place: **Lyngby, Denmark**  
Date: **June 11-15, 2006**  
Chairman: **Prof. V. Tvergaard**  
Technical University of Denmark, Dept. Mechanical  
Engineering, Solid Mechanics, Nils Koppels Alle,  
Building 404, DK-2800 Lyngby, Denmark  
**Email: viggo@mek.dtu.dk**

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

**GA 04-05**                    **IUTAM Symposium on Hamiltonian Dynamics,  
Vortex Structures, Turbulence**

Place:                    **Moscow, Russia**  
Date:                    **August 25-30, 2006**  
Chairman:              **Prof. V.V. Kozlov**  
Russian Academy of Sciences, 14 Leninsky Prospect,  
119991 Moscow, Russia  
**Email: Kozlov@ras.ru**

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

**GA 04-16**                    **IUTAM Symposium on Discretization Methods for  
Evolving Discontinuities**

Place:                    **Lyon, France**  
Date:                    **September 04 - 07, 2006**  
Chairman:              **Prof. A. Combescure**  
INSA de Lyon, LaMCos, 20, Avenue Albert Einstein,  
Bâtiment d'Alembert, F-69621 Villeurbanne, France  
**Email: alain.combescure@insa-lyon.fr**  
Co-Chairmen:        Prof. T. Belytschko, Prof. R. de Borst

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

**GA 04-03**                    **IUTAM Symposium on Computational Physics and  
New Perspectives in Turbulence**

Place:                    **Nagoya, Japan**  
Date:                    **September 11 - 14, 2006**  
Chairman:              **Prof. Y. Kaneda**  
Nagoya University, Department of Computational  
Science, Chikusa-ku, 464-8603 Nagoya, Japan  
**Email: kaneda@cse.nagoya-u.ac.jp**

IUTAM Representative on Scientific Committee: Prof. R. Narasimha



**GA 04-15**                    **IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty**

Place:                    **Nanjing, China**  
Date:                    **September 18 - 22, 2006**  
Chairman:                **Prof. H. Hu**  
                              Nanjing University of Aeronautics and Astronautics, 29  
                              Yudas Street, 210016 Nanjing, China  
                              **Email:** hhayae@nuaa.edu.cn  
Co-Chairman:            Prof. E.J. Kreuzer

IUTAM Representative on Scientific Committee: Prof. W. Schiehlen

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

Place:                    **London, UK**  
Date:                    **2006, 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 04-14**                    **IUTAM Symposium on Computational Contact Mechanics**

Place:                    Hannover, Germany  
Date:                    **2006, no exact dates available yet**  
Chairman:                **Prof. P. Wriggers**  
                              Universität Hannover, Institut für Baumechanik und  
                              Numensche Mechanik, Appelstrasse 9A, 30167  
                              Hannover, Germany  
                              **Email:** wriggers@ibnm.uni-hannover.de

IUTAM Representative on Scientific Committee: Prof. J. Salençon

**IUTAM Symposia 2007****GA 04-09 IUTAM Symposium on Relation of Shell, Plate, Beam and 3D Models**

Place: **Tbilisi, Georgia**  
Date: **April 23 – 28, 2007**  
Chairman: **Prof. G. Jaiani**  
Deputy Director, Tbilisi State University, I. Vekua  
Institute of Applied Mathematics, 2 University Str.,  
0143 Tbilisi, Georgia  
**Email:** jaiani@viam.hepi.edu.ge

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

**GA 04-12 IUTAM Symposium on Scaling in Solid Mechanics**

Place: **Cardiff, UK**  
Date: **June 25-29, 2007**  
Chairman: **Prof. F.M. Borodich**  
Cardiff University, School of Engineering, Institute of  
Theoretical, Applied and Computational Mechanics,  
CF24 0YF Cardiff, UK  
**Email:** BorodichFM@Cardiff.ac.uk

IUTAM Representative on Scientific Committee: Prof. J. Engelbrecht

**GA 04-08 IUTAM Symposium on Fluid-Structure Interaction in Ocean Engineering**

Place: **Hamburg-Harburg, Germany**  
Date: **July 23-27, 2007**  
Chairman: **Prof. E.J. Kreuzer**  
TU Hamburg-Harburg, Arbeitsbereich Mechanik und  
Meerestechnik, D-21071 Hamburg, Germany  
**Email:** Kreuzer@tu-harburg.de

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

**GA 04-04**                    **IUTAM Symposium on Advances in Micro- and Nanofluidics**

Place:                    **Dresden, Germany**  
Date:                    **September 06 - 08, 2007**  
Chairman:              **Prof. N.A. Adams**  
TU Dresden, Institut für Strömungsmechanik, George-Bär-Strasse 3c, D-01062 Dresden, Germany  
**Email:** nikolaus.adams@ism.mw.tu-dresden.de

IUTAM Representative on Scientific Committee: Prof. C. Cercignani

**GA 04-10**                    **IUTAM Symposium on Mechanical Properties of Cellular Materials**

Place:                    **Cachan, France**  
Date:                    **September 17-21, 2007**  
Chairman:              **Prof. H. Zhao**  
LMT-Cachan, 61, Avenue du Président Wilson, 94235 Cachan Cedex, France  
**Email:** zhao@lmt.ens-cachan.fr  
Co-Chairman:        Prof. N.A. Fleck

IUTAM Representative on Scientific Committee: Prof. Z. Zheng

**GA 04-02**                    **IUTAM Symposium on Recent Advances in Multiphase Flows: Numerical and Experimental**

Place:                    **Istanbul, Turkey**  
Date:                    **2007, no exact dates available yet**  
Chairman:              **Prof. A. Acrivos**  
City University of New York, Dept of Chemical Engineering, Stanford, CA 94305-1032, USA  
**Email:** acrivos@scisun.sci.cuny.cuny.edu  
Co-Chairman:        Prof. C.F. Delale

IUTAM Representative on Scientific Committee: Prof. L. van Wijngaarden

**GA 04-06**                    **IUTAM Symposium on Unsteady Separated Flows and their Control**

Place:                    **Corfu, Greece**  
Date:                    **2007, no exact dates available yet**  
Chairman:                **Dr. M. Braza**  
                              Unite Mixte de Recherche 5502 CNRS-NPT  
                              /ENSEEIH-UPS, Institut de Mecanique des Fluides de  
                              Toulouse, F-31400 Toulouse, France  
                              **Email: braza@imft.fr**

Co-Chairman:         Prof. K. Hourigan

IUTAM Representative on Scientific Committee: Prof. C. Cercignani

**GA 04-07**                    **IUTAM Symposium on Swelling and Shrinking of Porous Materials: From Colloid Science to Poro-Mechanics**

Place:                    **Petrópolis-RJ, Brazil**  
Date:                    **2007, no exact dates available yet**  
Chairman:                **Prof. M.A. Murad**  
                              National Laboratory for Scientific Computing, 25651-  
                              075 Quitandinha, Petrópolis-RJ, Brazil  
                              **Email: murad@Incc.br**

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

**GA 04-11**                    **IUTAM Symposium on Multi-Scale Plasticity of Crystalline Materials**

Place:                    **Eindhoven, Netherlands**  
Date:                    **2007, no exact dates available yet**  
Chairman:                **Prof. M.G.D. Geers**  
                              Eindhoven University of Technology, Dept. Mechanical  
                              Engineering, P.O. Box 513, 5600 MB Eindhoven, Neth.  
                              **Email: m.g.d.geers@tue.nl**

Co-Chairman:         Dr. E.P. Busso

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

## **IUTAM Summer Schools**

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

Place: **Udine, Italy**  
Date: **September 12-16, 2005**  
Coordinators: **Prof. Alfredo Soldati, Udine, Italy**  
Prof. Michael Reeks, Ispra (Va), Italy  
**Email:** Alfredo Soldati , soldati@uniud.it

### **2006 IUTAM Summer School on Biomechanical Modelling at the Molecular, Cellular and Tissue Levels**

Place: **Udine, Italy**  
Event dates: 2006, no exact dates available yet  
Coordinators: **Prof. Gerhard Holzapfel, Graz, Austria**  
Prof. Raymond Ogden, Glasgow, UK  
**Email:** gh@biomech.tu-graz.ac.at

### **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 (now Springer Science and Business Media) 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/Springer, 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**

### **Notice on availability of IUTAM Newsletter**

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

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