



NEWSLETTER

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IUTAM Co-Sponsored Events 2010

International Congress, XXIII ICTAM, Beijing, August 2012

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<http://www.iutam.net>

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International Union of Theoretical and Applied Mechanics

N-2010-2

November 2010

President's Address

Recipients of this newsletter will be fully aware that the 2010 meetings of the General Assembly and Congress Committee took place in Paris in July of this year. The meetings were held in the splendid Salon Honnorat at the Maison Internationale of the Cité Universitaire in the 14th arrondissement, and we are all extremely grateful to our Secretary-General for arranging everything so smoothly. We are also grateful to the Académie des Sciences and its President Jean Salençon for their hospitality at a reception held in the Salle des 5 Académies, where Professor Sébastien Candel made a warm welcoming speech which was greatly appreciated. In addition, the Bureau and the Executive of the Congress Committee had two meetings each in the premises of ICSU in rue Auguste Vacquerie in the 16th arrondissement, and we are most grateful to ICSU for making the meeting rooms available, and for providing facilities for lunch on the Friday and the Monday.

Most of the technical matters discussed by the General Assembly and Congress Committee are summarised below in the reports of the Secretary-General and the Congress Committee Secretary. Here I would like to highlight the fact that it was agreed to conduct a review of the workings of the Working Parties (WP). Some of these have been very successful while others are not so active. Some WP representatives expressed the view that working parties might feel more useful if they had a greater role in promoting IUTAM symposia and in suggesting sectional lecturers, mini-symposium titles and organisers, and pre-nominated session chairs for future ICTAMs. This would be in addition to providing regular statements of developments in their fields for the benefit of the GA and other IUTAM bodies. Therefore a committee has been set up whose terms of reference include considering the role of the WPs, any ways in which their structure and procedures can be improved, how the new IUTAM website can be used to promote the activities of the WPs, etc. The membership of the committee is as follows: Professor Paul Linden, Professor Fernando Lund, Professor Werner Schiehlen and Professor Frédéric Dias; and anyone with views on the role of the WPs should communicate them to the Convener of the committee, Professor Paul Linden.

Next year's meetings of the Bureau and the XCCC will take place in Cambridge, UK on 12 – 15 August, 2011. The GA and CC will next meet during the 23rd ICTAM in Beijing in August 2012. I encourage everyone to start to make their plans to attend.

Tim Pedley
Cambridge, 29 November 2010

Tim Pedley
President of IUTAM
Cambridge

Short Report on the General Assembly meetings, July 2010

The IUTAM General Assembly was held in two sessions on 17 and 18 July 2010 in the Maison Internationale of the Cité Universitaire, Paris, France. Among the items discussed and decided upon at the meeting were the following:

Matters concerning Adhering, Associate and Affiliated Organizations:

The transformation of the Caribbean Congress of Fluid Dynamics to a new organization, named Latin American and Caribbean Congress of Theoretical and Applied Mechanics, was agreed, provided this transformation is supported by the Adhering Organizations from the Latin American countries Argentina, Brazil and Chile through their representatives.

The General Assembly agreed by substantial majority to support the application of BICTAM for Affiliated Organization status within IUTAM. The General Assembly agreed by substantial majority to support the application of Cyprus for Associate Organization status within IUTAM.

IUTAM Symposia 2012 and 2013

The General Assembly agreed on 17 IUTAM Symposia to be held in the years 2012 and 2013. These Symposia are listed on the IUTAM website.

The Bureau assigned the members of the Scientific Committees according to expertise in the fields of the Symposia and based on their geographical distribution.

IUTAM Summer Schools 2012 and 2013

The General Assembly agreed on two Summer Schools to be held in 2012/2013.

These Summer Schools are listed on the IUTAM website.

Working Parties / Standing Scientific Committees

The General Assembly appointed new chairpersons to the following Working Parties:

- WP2 Dynamical Systems and Mechatronics
Chair: Prof. Yabuno, Japan
- WP9 Education in Mechanics and Capacity Building
Chair: Prof. K. Moffatt, UK

All WPs are required to report to the General Assembly every two years.

Election of members of the Congress Committee of IUTAM

The General Assembly decided to elect 8 persons as members of the Congress Committee for the period 2010 through 2014. The new membership of the Congress Committee from 1 November 2010 is recorded on the IUTAM website.

IUTAM Proceedings

The General Assembly unanimously approved the Elsevier proposal for Procedia. The most important feature of Procedia is the open access for a cost of 3,750 USD per Proceedings. There will be a new Procedia for IUTAM only, called Procedia IUTAM. The link to Procedia is www.elsevier.com/locate/procedia. The switch from the current agreement with Springer to the new agreement with Elsevier will take place on January 1st, 2011. The first volume of the new Procedia IUTAM will be the Proceedings of the IUTAM Symposium on Computational Aero-Acoustics (CAA) for Aircraft Noise Prediction, which took place in Southampton in March 2010 (chairman, Prof. J. Astley).

Date and venue of next GA and Bureau meetings

The General Assembly decided to hold its next meeting during the 23rd ICTAM in Beijing, China, on 21 August and 22 August 2012. The next Bureau meeting will be held in Cambridge, UK, on Saturday afternoon, 13 August, and Sunday morning, 14 August, 2011.

Frédéric Dias
Secretary-General of IUTAM
Cachan & Dublin

Short Report on the Congress Committee meetings, July 2010

The Congress Committee (CC) met twice during the General Assembly. In addition the Executive Committee of the CC met before and after the General Assembly meetings. The following are some highlights of the CC meetings:

Follow-up to Executive Committee meetings in Beijing in August 2009

- **Appointment of co-chairs of Minisymposia**

The Secretary reported that chairs had been invited and confirmed for all six mini-symposia. These individuals are now listed on the ICTAM2012 website.

- **Appointment of International Papers Committee**

The Secretary reported that all six members of the IPC named in Beijing had been invited and had accepted. In keeping with IUTAM tradition the names of the IPC members are only listed in the minutes of the XCCC meeting. The venue of the IPC meeting in March 2012 is still open for decision.

- **Final list of Pre-Nominated Sessions**

No substantial changes to the list of pre-nominated sessions agreed upon in Beijing were made. This list now appears on the ICTAM2012 website.

- **Subcommittee documents on nominations/elections and statutes/rules of procedure submitted to IUTAM Bureau**

These documents were submitted to the Bureau for consideration and presentation to the General Assembly. The Bureau provided no comments but there were some editorial comments when the documents were presented to the General Assembly. These will be addressed and a final version re-submitted to the Bureau with the hope that all issues can be finalized at the General Assembly in 2012.

Presentation by President and Secretary-General of ICTAM2012, Beijing, China, August 19-24, 2010

The website <http://www.ictam2012.org> will henceforth become the main point of reference for general information on the upcoming congress. A mature draft of the preliminary announcement was circulated. The main challenges for the organizers are to achieve closure on various contracts with

the congress venue, hotels, and other vendors, and to raise funds to meet the commitments made in the proposal stage. The rate of exchange of the Chinese RMB relative to the USD was again mentioned as a point of concern but not one that the XCCC could do much about. The proposed registration fee continues to climb and needs to be finalized.

Decisions re ICTAM2012:

- **Opening and Closing lectures**

Based on 28 nominations received from around the world the XCCC made two proposals for voting by the CC. The end result was that Shiyi Chen of China was invited to give the opening lecture in fluid mechanics, and L. Ben Freund of USA was invited to give the closing lecture. Both have since accepted these invitations.

- **Sectional lectures**

From a list of 107 nominees preliminary voting by the CC via e-mail had narrowed down the competitive nominations to a short list of 33. This list was then subjected to further voting by the CC at its meetings and a clear list of 17 favored sectional lecturers was established. These are (in alphabetical order)

Kaushik Bhattacharya (USA)

René de Borst (The Netherlands)

Michael Brenner (USA)

Alberto Corigliano (Italy)

Peter Eberhard (Germany)

Mory Gharib (USA)

Robert Goldshtein (Russia)

Ray Goldstein (UK)

Yoichiro Matsumoto (Japan)

Parviz Moin (USA)

Alain Molinari (France)

Alan Needleman (USA)

K.R. Sreenivasan (USA)

Pierre Suquet (France)

Grae Worster (UK)

Wei Yang (China)

Stéphane Zaleski (France)

Subsequent to the meetings all sectional lecturers were invited and have accepted.

• **Co-chairs of Pre-Nominated Sessions**

Nominations had been received from around the world. Particularly welcome was a long list of nominations from South America compiled by Luiz Bevilaqua of Brazil. Very few nominations had been received from Russia so additional names were solicited working through Felix Chernousko of the Bureau and our two Russian CC members.

For all sessions a minimum of five nominations were available. For the more popular topics the list of nominees would run as high as 15-20. The CC went through the list at its second meeting and named two primary and two alternate co-chair nominees for each PNS. Subsequently, the Secretary has invited co-chairs according to this list. At the time of writing we have confirmed co-chairs for almost all Pre-Nominated Sessions.

Decisions re Congress Committee membership

The CC recommended that all members completing a first term and eligible for a second term be re-elected without contest. These members are:

Carl Herakovich (USA)
Jean-Baptiste Leblond (France)
Nikita Morozov (Russia)
Nigel Peake (UK)
Genki Yagawa (Japan)

From the competitive elections the following new members were elected:

Renato Cotta (Brazil)
Peter Eberhard (Germany)
Bruno Eckhardt (Germany)
GertJan van Heijst (The Netherlands)
K. Ravi-Chandar (USA)
Stépan Gabor (Hungary)
Howard Stone (USA)
Kazuo Tanishita (Japan)

The Secretary subsequently confirmed that the individuals elected were willing to serve and welcomed them to the CC. The Secretary also sent letters of thanks to all retiring members.

- **Membership of the Executive Committee**

An election by secret ballot was held at the second meeting of the CC and Viggo Tvergaard (Denmark) was elected to the XCCC to replace the vacancy created by Bernhard Schrefler (Italy) having rotated off.

Discussion of preliminary bids re ICTAM2016

The set of preliminary proposals presented before the CC at its second meeting was felt to be adequate for identifying a suitable congress venue in 2016. Preliminary bids have been submitted by Canada, Hungary, India, Italy, and a Scandinavian consortium.

Hassan Aref
Secretary of the Congress Committee

IUTAM Symposia 2010**10-1 = GA.08-01 IUTAM Symposium on Computational Aero-Acoustics (CAA) for Aircraft Noise Prediction**

Place: Southampton, UK
Date: March 29 – March 31, 2010
Chairman: **Prof. J. 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. Kluwick

10-2 = GA.08-07 IUTAM Symposium on Nonlinear Stochastic Dynamics and Control

Place: Hangzhou, China
Date: May 10 – May 14, 2010
Chairman: **Prof. W.Q. Zhu**
Zhejiang University
Department of Mechanics
310027 Hangzhou China
Email: wqzhu@yahoo.com
Co-Chairman: **Prof. Y.K. Lin**
Florida Atlantic University
Center for Applied Stochastics Research
777 Glades Rd, 33431-0991 Boca Raton, FL, USA
Email: linyk@fau.edu

IUTAM Representative on Scientific Committee: Prof. K. Sobczyk

10-3 = GA.08-15 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. Stépán**
Budapest University of Technology and Economics
Department of Applied Mechanics
Muegyetem rkp 5
H-1111 Budapest Hungary
Email: stepan@mm.bme.hu
Email: iutam2010@mm.bme.hu
Webpage: <http://www.iutam2010.org>

IUTAM Representative on Scientific Committee: Prof. F.L. Chernousko

10-4 = GA.08-03 IUTAM Symposium on Bluff Body Wakes and Vortex-Induced Vibrations

Place: Capri Island, Italy
Date: June 22 – June 25, 2010
Chairman: **Prof. C.H.K. Williamson**
Cornell University
Department of Mechanical and Aerospace Engineering
252 Upson Hall
NY 14853-7 Ithaca USA
Email: cw26@cornell.edu
Co-Chairman **Dr. T. 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
Email: Thomas.Leweke@irphe.univ-mrs.fr

IUTAM Representative on Scientific Committee: Prof. P.A. Monkewitz

10-5 = GA.08-14 IUTAM Symposium on Nonlinear Dynamics for Advanced Technologies and Engineering Design (NDATED)

Place: Aberdeen, UK
Date: July 27 – July 30, 2010
Chairman: **Prof. M. 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. Rega**
Sapienza Universita di Roma
Dipartimento di Ingegneria Strutturale e Geotecnica
Via Antonio Gramsci 53, 00197 Roma, Italy
Email: giuseppe.rega@uniroma1.it

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

10-6 = GA.08-08 IUTAM Symposium on Surface Effects in the Mechanics of Nanomaterials and Heterostructures

Place: Beijing, China
Date: August 08 – August 13, 2010
Chairman: **Prof. A. 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. Wang**
Peking University
Dept of Mechanics & Aerospace Engineering
100871 Beijing, China
Email: jxwang@pku.edu.cn

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

10-7 = GA.08-12 IUTAM Symposium on Analysis and Simulation of Human Motion

Place: Leuven, Belgium

Date: September 13 – September 15, 2010

Chairman: **Prof. J. van der Sloten**

K.U. Leuven, Faculty of Engineering BMGO
Celestijnenlaan 300c, 3001 Leuven Belgium

Email: jos.vandersloten@mech.kuleuven.be

Co-Chairman: **Prof. I. Jonkers**

Faculty of Kinesiology and Rehabilitation Sciences
Department Biomedical Kinesiology,
Research Center for Movement Control and
Neuroplasticity,

Tervuursevest 101, 3001 Leuven, Belgium

Email: Ilse.Jonkers@faber.kuleuven.be

IUTAM Representative on Scientific Committee: Prof. F. Pfeiffer

IUTAM Symposia 2011

11-1 = GA.08-05 IUTAM Symposium on Mechanics of Liquid and Solid Foams

Place: Austin, TX, USA
Date: May 8 – May 13, 2011
Chairman: **Prof. S. 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: skk@mail.utexas.edu

Co-Chairman: **Dr. A.M. Kraynik**
Sandia National Laboratories, Dept. 1514-MS 0836
NM 87185-0836 Albuquerque, USA
Email: amkrayn@sandia.gov

IUTAM Representative on Scientific Committee: Prof. N.A. Fleck

11-2 = GA.08-09 IUTAM Symposium on Linking Scales in Computations: From Microstructure to Macro-scale Properties

Place: Shalimar, FL, USA
Date: May 17 – May 19, 2011
Chairman: **Prof. O. 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. Leblond

**11-3 = GA.08-11 IUTAM Symposium on Human Body Dynamics:
From Multibody Systems to Biomechanics**

Place: Waterloo, Canada
Date: June 5 – June 8, 2011
Chairman: **Prof. J.J. McPhee**
University of Waterloo
Department of Systems Design Engineering
N2L 3G1 Waterloo, Canada
Email: mcphee@real.waterloo.ca

Co-Chairman: **Dr J. Kovecses**
McGill University, Canada
Email: jozsef.kovecses@staff.mcgill.ca

IUTAM Representative on Scientific Committee: Prof. F.L. Chernousko

**11-4 = GA.08-10 IUTAM Symposium on Full-field Measurements
and Identification in Solid Mechanics**

Place: Cachan, France
Date: July 4 – July 8, 2011
Chairman: **Prof. F. Hild**
LMT-Cachan, 61 Avenue du President Wilson, F-94235
Cachan cedex, France
Email: hild@lmt.ens-cachan.fr

Co-Chairman: **Prof. D. Espinosa**
Northwestern University
Department of Mechanical Engineering
60208-3111 Evanston IL USA
Email: espinosa@northwestern.edu

IUTAM Representative on Scientific Committee: Prof. G. Maier

11-5 = GA.08-13 IUTAM Symposium on Impact Biomechanics in Sport

Place: Dublin, Ireland
Date: July 6 – July 8, 2011
Chairman: **Prof. M.D. 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

11-6 = GA.08-06 IUTAM Symposium on Computer Models in Biomechanics: From Nano to Macro

Place: Stanford, CA, USA
Date: August 29 – September 02, 2011
Chairman: **Dr. E. Kuhl**
Stanford University
Dept. of Mechanical Eng & Bioengineering
496 Lomita Mall, Durand 217
CA-94305-4 Stanford USA
Email: ekuhl@stanford.edu
Co-Chairman: **Prof. G.A. Holzapfel**
Graz University of Technology
Institute of Biomechanics
Kronesgasse 5-I, 8010 Graz, Austria
Email: holzapfel@tugraz.at

IUTAM Representative on Scientific Committee: Prof. J. Engelbrecht

**11-7= GA.08-04 IUTAM Symposium on 50 Years of Chaos:
Applied and Theoretical**

Place: Kyoto, Japan
Date: November 28 – December 02, 2011
Chairman: **Prof. T. Hikihara**
Kyoto University
Department of Electrical Engineering
Katsura, Nishikyo, 615-8510 Kyoto Japan
Email: hikihara@kuee.kyoto-u.ac.jp

Co-Chairman: **Prof. T. Kambe**
Former professor (University of Tokyo), Higashi-yama
2-11-3
Meguro-ku, 153-0043 Tokyo, Japan
Email: kambe@ruby.dti.ne.jp

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

11-8 = GA.08-02 IUTAM Symposium on Bluff Body Flows

Place: Kanpur, India
Date: December 12 – December 16, 2011
Chairman: **Prof. S. Mittal**
Indian Institute of Technology
Department of Aerospace Engineering
UP 208016 IIT Kanpur, India
Email: smittal@iitk.ac.in

Co-Chairman: **Prof. G. Biswas**
Indian Institute of Technology, Department of
Mechanical Engineering, UP 208016 IIT Kanpur
India
Email: gtm@iitk.ac.in

IUTAM Representative on Scientific Committee: Prof. T. Kambe

IUTAM Symposia 2012**12-1 = GA.10-12 IUTAM Symposium on Advanced materials modelling for structures**

Place: Paris, France
Date: April 23 – April 27, 2012
Chairman: **Prof. S. Kruch**
ONERA
29 avenue Division Leclerc
92320 Chatillon, France
Email: serge.kruch@onera.fr

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

12-2 = GA.10-02 IUTAM Symposium on Topological fluid dynamics II

Place: Cambridge, UK
Date: July 23 – July 27, 2012
Chairman: **Prof. K. Moffatt**
University of Cambridge
Dept. of Applied Mathematics and Theoretical Physics.
CB3 0WA Cambridge - UK
Email: hkm2@damtp.cam.ac.uk

Co-Chairman: **Dr. K. Bajer**
Institute of Geophysics, Warsaw University
02-093 Warszawa, Poland
Email: Konrad.Bajer@fuw.edu.pl

Co-Chairman: **Prof. Y. Kimura**
School of Mathematics
Nagoya University
Nagoya, Japan
Email: kimura@math.nagoya-u.ac.jp

IUTAM Representative on Scientific Committee: Prof. T. Pedley

**12-3 = GA.10-03 IUTAM Symposium on Understanding
common aspects of extreme events in fluids**

Place: Dublin, Ireland
Date: **2012, no exact dates available yet**
Chairman: **Dr. M.D. Bustamante**
University College Dublin
School of Mathematical Sciences
Belfield, Dublin 4
Ireland
Email: miguel.bustamante@ucd.ie

IUTAM Representative on Scientific Committee: Prof. F. Dias

**12-4= GA.10-06 IUTAM Symposium on Particle methods in fluid
mechanics**

Place: Kgs. Lyngby, Denmark
Date: **2012, no exact dates available yet**
Chairman: **Prof. J.H. Walther**
Department of Mechanical Engineering
Technical University of Denmark
2800 Kgs. Lyngby
Denmark
Email: jhw@mek.dtu.dk

IUTAM Representative on Scientific Committee: Prof. H. Aref

12-5= GA.10-07 IUTAM Symposium on Mobile particulate systems : kinematics, rheology and complex phenomena

Place: Bangalore, India
Date: **2012, no exact dates available yet**
Chairman: **Prof. P. Nott**
Indian Institute of Science
Department of Chemical Engineering
560012 Bangalore
India
Email: prnott@chemeng.iisc.ernet.in

IUTAM Representative on Scientific Committee: Prof. G. Leal

12-6= GA.10-08 IUTAM Symposium on Waves in fluids: Effects of nonlinearity, rotation, stratification and dissipation

Place: Moscow, Russia
Date: **2012, no exact dates available yet**
Chairman: **Pr. Y.D. Chashechkin**
Institution of the Russian Academy of Sciences A.Yu. Ishlinskii
Institute for Problems in Mechanics of the RAS
119526 Moscow
Russia
Email: chakin@ipmnet.ru

IUTAM Representative on Scientific Committee: Prof. F. Chernousko

12-7= GA.10-09 IUTAM Symposium on From mechanical to biological systems - an integrated approach

Place: Izhevsk, Russia
Date: **2012, no exact dates available yet**
Chairman: **Prof. V. Kozlov**
Udmurt State University
Izhevsk
119991 Moscow
Russia
Email : Kozlov@ras.ru

IUTAM Representative on Scientific Committee: Prof. F. Chernousko

12-8= GA.10-11 IUTAM Symposium on Advances of optical methods in experimental mechanics

Place: Hsinchu, China-Tapei
Date: **2012, no exact dates available yet**
Chairman: **Prof. W.-C. Wang**
National Tsing Hua University
Department of Power Mechanical Engineering
30013 Hsinchu
Taiwan
Email: wawang@pme.nthu.edu.tw

IUTAM Representative on Scientific Committee: Prof. B. Freund

12-9= GA.10-14 IUTAM Symposium on Fracture phenomena in nature and technology

Place: Brescia, Italy
Date: **2012, no exact dates available yet**
Chairman: **Prof. D. Bigoni**
Department of Mechanical and Structural Engineering
University of Trento
Via Mesiano 77
38050 Trento, Italy
Email : bigoni@ing.unitn.it

IUTAM Representative on Scientific Committee: Prof. B. Freund

12-10= GA.10-15 IUTAM Symposium on Hysteresis and pattern evolution in non-equilibrium solid-solid phase transitions

Place: Hong Kong, China
Date: **2012, no exact dates available yet**
Chairman: **Prof. Q.P. Sun**
Hong Kong University of Science and Technology
Kowloon
Hong Kong
China
Email: meqpsun@ust.hk

IUTAM Representative on Scientific Committee: Prof. S. Kyriakides

12-11= GA.10-16 IUTAM Symposium on Multiscale problems in stochastic mechanics

Place: Karlsruhe, Germany
Date: **2012, no exact dates available yet**
Chairman: **Prof. C. Proppe**
Karlsruhe Institute of Technology
76131 Karlsruhe
Germany
Email: proppe@kit.edu

IUTAM Representative on Scientific Committee: Prof. E. Kreuzer

IUTAM Symposia 2013**13-1 = GA.10-01 IUTAM Symposium on The dynamics of extreme events influenced by climate change**

Place: Lanzhou, China
Date: **2013, no exact dates available yet**
Chairman: **Prof. X. Zheng**
Department of Mechanics
Lanzhou University
222 South Tianshui Road
Lanzhou, Gansu 730000 , China
Email : xizheng@lzu.edu.cn

Co-Chairman: **Prof. P. Linden**
Department of Mechanical & Aerospace Engineering
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0411, USA
Email: pflinden@ucsd.edu

IUTAM Representative on Scientific Committee: Prof. K. Moffatt

13-2 = GA.10-04 IUTAM Symposium on Vortex dynamics : formation, structure and function

Place: Kyushu, Japan
Date: **2013, no exact dates available yet**
Chairman: **Prof. Y. Fukumoto**
Kyushu University
Faculty of Mathematics
744 Motooka, Nishi-ku
819-0395 Fukuoka Japan
Email: yasuhide@math.kyushu-u.ac.jp

IUTAM Representative on Scientific Committee: Prof. H. Aref

13-3 = GA.10-05 IUTAM Symposium on Nonlinear interfacial wave phenomena from the micro to the macro-scale

Place: Limassol, Cyprus
Date: **2013, no exact dates available yet**
Chairman: **Prof. D. Papageorgiou**
Imperial College of London
Department of Mathematics
Huxley Building, 180 Queen's gate
SW7 2AZ London UK
Email: d.papageorgiou@imperial.ac.uk

IUTAM Representative on Scientific Committee: Prof. F. Dias

13-4= GA.10-10 IUTAM Symposium on Recent developments in impact testing of materials and structures

Place: Xi'an, China
Date: **2013, no exact dates available yet**
Chairman: **Prof. Y. Li**
School of Aeronautics
Northwestern Polytechnical University
710072 Xi'an
China
Email: liyulong@nwpu.edu.cn

IUTAM Representative on Scientific Committee: Prof. B. Freund

13-5= GA.10-13 IUTAM Symposium on Materials and interfaces under high strain rate and large deformation

Place: Metz, France
Date: **2013, no exact dates available yet**
Chairman: **Prof. S. Mercier**
Université Paul Verlaine Metz
Ile du Saulcy
57045 Metz, France
Email: sebastien.mercier@univ-metz.fr

Co-Chairman: **Prof. J. F. Molinari**
Ecole Polytechnique Fédérale de Lausanne,
CH 1015, Lausanne, Switzerland.
Email: jean-francois.molinari@epfl.ch

IUTAM Representative on Scientific Committee: Prof. N. Gupta

13-6= GA.10-17 IUTAM Symposium on Multiscale modelling and uncertainty quantification of materials and structures

Place: Athens, Greece
Date: **2013, no exact dates available yet**
Chairman: **Prof. M. Papadrakakis**
NTUA
Zografou Campus
15780 Athens
Greece
Email: mpapadra@central.ntua.gr

IUTAM Representative on Scientific Committee: Prof. O. Allix

IUTAM Summer Schools

2010 **IUTAM Summer School on Nanomechanics, Nanomaterials and Micro-/Nano Manufacturing**

Place: Evanston, IL, USA
Event dates: May 10 – May 12, 2010
Coordinator: **Prof. W. (Wing Kam) Liu & Prof. Y. Huang**
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: June 28 – July 2, 2010
Coordinator: **Prof. T.I. (Tarek) Zohdi & Prof. P. Papadopoulos**
University of California at Berkeley
Dept. of Mechanical Engineering
6117 Etcheverry Hall
Mailstop 1740
CA 94720-1 Berkeley USA
Email: zohdi@me.berkeley.edu

2012 IUTAM Summer School on Biomechanics of Tissue and Tissue-Cell Interaction

Place: Purdue, USA
Event dates: **2012, no exact dates available yet**
Coordinators: **Prof. T. Siegmund**
Purdue University
School of Mechanical Engineering
585 Purdue Mall
47907 West Lafayette USA
Email: siegmund@purdue.edu

2012 IUTAM-CISM Summer School on Mechanics of Nanocrystalline Materials

Place: Udine, Italy
Event dates: **2012, no exact dates available yet**
Coordinator: **Prof. M. Cherkaoui**
School of Mechanical Eng.
Georgia Institute of Technology
Atlanta, GA 30332-0405
USA
Email: mohammed.cherkaoui@me.gatech.edu

Co-Coordinator: **Prof. D. L. McDowell**
School of Mechanical Eng.
Georgia Institute of Technology
Atlanta, GA 30332-0405
USA
Email: david.mcdowell@me.gatech.edu

IUTAM Co-Sponsored Events

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

Date: May 24 - May 27, 2010

Coordinator: **Prof. A. Mikkola**

Email: aki.mikkola@lut.fi

2011 **Conference “Mechanics and Physics of Porous Solids : A tribute to late Pr. Olivier Coussy”**

Place: Ecole des Ponts ParisTech
Champs-sur-Marne
France

Date: April 18 – April 20, 2011

Coordinator : **Prof. P. Dangla**
UR Navier - CNRS
2, allée Kepler
77420 Champs sur Marne, FRANCE

Email : dangla@lcpc.fr

Webpage : <http://navier.enpc.fr/events/mpps2011>

2011 International Conference on Simulation Technology

Place: University of Stuttgart
Germany
Date: June 14 – June 17, 2011
Coordinator : **Prof. W. Ehlers**
University of Stuttgart
Institute of Mechanics
70569 Stuttgart
Germany
Email : ehlers@mechbau.uni-stuttgart.de

2012 Second Joint International Conference on Multibody System Dynamics

Place: University of Stuttgart
Germany
Date: May 29 - June 1, 2012
Coordinator : **Prof. P. Eberhard**
University of Stuttgart
Institute of Engineering and Computational Mechanics
70569 Stuttgart
Germany
Email: eberhard@itm.uni-stuttgart.de

International Congress, XXIII ICTAM, Beijing 2012

August 19-24, 2012

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.

For further information see ICTAM home page,
<http://www.ictam2012.org/>

or please contact:

Professor Hassan Aref
Secretary of the IUTAM Congress Committee
Virginia Tech
Email: haref@vt.edu

Opening and Closing Lecturers

Opening Lecturer: Professor Shiyi Chen (China)

Closing Lecturer: Professor Ben Freund (USA)

Mini Symposia

MS 01. Mechanical challenges in energy

Co-chairs:

Professor Ken Reifsnider (USA)

Professor Jens Nørkær Sørensen (Denmark)

Professor Dongxiao Zhang (China)

MS 02. Mechanics of natural disasters

Co-chairs:

Professor Bernhard Schrefler (Italy)

Professor Pavel Tkalich (Singapore)

MS 03. Fluid-structure interactions in biological systems

Co-chairs:

Professor Gerhard Holzapfel (Austria)

Professor Eric Lauga (USA)

MS 04. Mechanics of transport in microfluidic devices

Co-chairs:

Professor Matthew Begley (USA)

Professor Henrik Bruus (Denmark)

MS 05 Dynamics and control of morphing structures

Co-chairs:

Professor Ephrahim Garcia (USA)

Professor Haiyan Hu (China)

MS 06 Effects of small size scales in materials modeling

Co-chairs:

Professor Huajian Gao (USA)

Professor Marc Geers (Netherlands)

Pre-Nominated Sessions**Fluid Mechanics**

FM1	Biological fluid dynamics
FM2	Boundary layers
FM3	Combustion and flames
FM4	Compressible flow
FM5	Convection
FM6	Drops, bubbles and multiphase flows
FM7	Flow instability and transition
FM8	Flow in thin films
FM9	Geophysical and environmental fluid dynamics
FM10	Low Reynolds number flows
FM11	Magnetohydrodynamics
FM12	Non-Newtonian and complex fluids
FM13	Stirring and mixing
FM14	Turbulence
FM15	Vortex dynamics
FM16	Waves in fluids
FM17	General fluid mechanics

Solid Mechanics

SM1	Biomechanics and biomaterials
SM2	Contact and friction mechanics
SM3	Damage mechanics
SM4	Elasticity
SM5	Fracture mechanics
SM6	Geophysics and geomechanics
SM7	Impact mechanics and wave propagation
SM8	Mechanics of multi-component materials and composites
SM9	Mechanics of phase transformations
SM10	Mechatronics
SM11	Multibody and vehicle dynamics
SM12	Nanostructures and MEMS
SM13	Plasticity, viscoplasticity and creep
SM14	Stability of structures
SM15	Structural optimization (Co-sponsored by ISSMO)
SM16	Vibrations and control of structures
SM17	General solid mechanics

Topics involving both fluid mechanics and solid mechanics

FS01	Acoustics
FS02	Computational methods in mechanics
FS03	Experimental methods in mechanics
FS04	Chaos and pattern formation
FS05	Electro- and magnetomechanical systems
FS06	Fluid structure interactions
FS07	Smart materials
FS08	Granular materials and flows
FS09	Mechanics of materials processing
FS10	Porous media
FS11	Foams and cellular materials
FS12	Education in mechanics

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.

IUTAM is a member of ICSU
<http://www.icsu.org>

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.

IUTAM Home Page:

<http://www.iutam.net>

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