



NEWSLETTER



President's Address

**From the office of the Secretary-General
IUTAM Symposia 2013, 2014 and 2015
IUTAM Summer Schools 2013 and 2014
IUTAM Co-Sponsored Events 2013 and 2014**

IUTAM Home Page:

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

International Union of Theoretical and Applied Mechanics

N-2013-1

June 2013

President's Address

This is my first address in IUTAM's Newsletter since I was elected President. I had not expected to be elected for this important position, and I am deeply honored that my colleagues have sufficient confidence in me to choose me.

Obviously, due to distances, our work in the Bureau and the XCCC occurs mainly by email. My interaction so far has mostly been with the Secretary-General Frédéric Dias, who takes care of daily administrative duties, the Treasurer, Peter Eberhard, who has worked hard on getting into the economy issues, and the Vice-President, Tim Pedley, who is available with advice and suggestions, drawing on his long IUTAM experience. Peter Eberhard found out that not all countries allow for an Association owned bank account, and various arrangements have been considered to account for this fact. Niels Olhoff, with his Treasurer experience, has kindly agreed to serve as Assistant Treasurer in relation to Danish bank accounts.

The next meetings of the Bureau and XCCC will take place in Montreal on 24, 25 and 26 August this year, focusing on our next ICTAM, as is tradition. Here, the XCCC Secretary, Bob McMeeking, is much involved in the planning. It will be very interesting to see the Congress Site in Montreal, and to be able to discuss the detailed plans for the Congress with Maciej Floryan. This will also be the first time that the new Bureau and the new XCCC meet and I look forward to interact with all the members.

As described by Tim Pedley in the last Newsletter, the Congress Committee selected with large majority Montreal as our next Congress site. But there were also other very good bids, and I hope that these colleagues from other countries will keep their enthusiasm and bid again next time.

The 2014 meeting of the General Assembly and the Congress Committee will be held in Kgs. Lyngby (near Copenhagen) on Monday 18 August and Tuesday 19 August 2014. The days have been shifted from the week-end to Monday and Tuesday in order to be able to use the University facilities (meeting rooms, lecture rooms and restaurants), to avoid a high registration fee. I have asked the members of the Bureau and XCCC, and several

members of the GA, and they have said that this change would be fine, for some even preferable.

We keep our contact with the International Council for Science (ICSU). The meeting of the ICSU Scientific Unions was held recently in Paris, on 29 and 30 April. Frédéric Dias went there, to represent IUTAM. During that meeting he also participated in a meeting of the Physical, Chemical and Mathematical cluster of ICSU.

June 2013

Viggo Tvergaard
President of IUTAM
Lyngby

From the office of the Secretary-General

Procedia IUTAM :

The new series, which was launched successfully in 2011, has now eight volumes available on the website:

<http://www.sciencedirect.com/science/journal/22109838>

IUTAM Report 2012

The IUTAM Report 2012 is scheduled to be distributed in the summer of 2013. It will contain in particular the minutes of the General Assembly held in Beijing in August 2012.

Frédéric Dias
Secretary General of IUTAM
Cachan & Dublin

IUTAM Symposia 2013

13-1 = GA.10-04 IUTAM Symposium on Vortex dynamics: formation, structure and function

Place: Fukuoka, Japan
Date: March 10 – March 14, 2013
Chairman: **Prof. Y. Fukumoto**
Kyushu University
Faculty of Mathematics
744 Motooka, Nishi-ku
819-0395 Fukuoka Japan
Email: yasuhide@math.kyushu-u.ac.jp
Website : <http://www.iutam2013vortex.jp/>

IUTAM Representative on Scientific Committee: Prof. G.J. van Heijst

13-2 = GA.10-05 IUTAM Symposium on Nonlinear interfacial wave phenomena from the micro to the macro- scale

Place: Limassol, Cyprus
Date: April 14 – April 18, 2013
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
Website: <http://www.cut.ac.cy/IUTAM>

IUTAM Representative on Scientific Committee: Prof. F. Dias

13-3 = GA.10-10 IUTAM Symposium on Recent developments in impact testing of materials and structures

Place: Xi'an, China
Date: May 06 – May 10, 2013
Chairman: **Prof. Y. Li**
School of Aeronautics
Northwestern Polytechnical University
710072 Xi'an
China
Email: liyulong@nwpu.edu.cn

Co-Chairman: **Prof. Han Zhao**
Ecole Normale Supérieure de Cachan
France
Email: zhao@lmt.ens-cachan.fr

IUTAM Representative on Scientific Committee: Prof. B. Freund

13-4 = GA.10-13 IUTAM Symposium on Materials and interfaces under high strain rate and large deformation

Place: Metz, France
Date: June 17 – June 21, 2013
Chairman: **Prof. S. Mercier**
Université de Lorraine
Ile du Saulcy
57045 Metz, France
Email: sebastien.mercier@univ-lorraine.fr

Co-Chairman: **Prof. J. F. Molinari**
Ecole Polytechnique Fédérale de Lausanne
CH 1015, Lausanne, Switzerland
Email: jean-francois.molinari@epfl.ch
Website: <http://www.lem3.fr/iutam/>

IUTAM Representative on Scientific Committee: Prof. O. Allix

13-5 = GA.10-17 IUTAM Symposium on Multiscale modelling and uncertainty quantification of materials and structures

Place: Santorini Island, Greece
Date: September 09 – September 11, 2013
Chairman: **Prof. M. Papadrakakis**
NTUA
Zografou Campus
15780 Athens
Greece
Email: mpapadra@central.ntua.gr
Website: <http://www.iutam2013-ntua.org/>

IUTAM Representative on Scientific Committee: Prof. O. Allix

13-6 = GA.10-01 IUTAM Symposium on The dynamics of extreme events influenced by climate change

Place: Lanzhou, China
Date: September 23 – September 25, 2013
Chairman: **Prof. X. Zheng**
Department of Mechanics
Lanzhou University, China
Email: xjzheng@lzu.edu.cn
Co-Chairman: **Prof. P. Linden**
Department of Applied Mathematics and Theoretical
Physics
University of Cambridge, UK
Email: p.f.linden@damtp.cam.ac.uk
Website: <http://iutam.lzu.edu.cn/>

IUTAM Representative on Scientific Committee: Prof. K. Moffatt

IUTAM Symposia 2014

14-1 = GA.12-02 IUTAM Symposium on Transition and turbulence in flow through deformable tubes and channels

Place: Bangalore, India
Date: January 20 – January 24, 2014
Chairman: **Prof. V. Kumaran**
Dept. of Chemical Engineering
Indian Institute of Sciences
560012 Bangalore, India
Email: kumaran@chemeng.iisc.ernet.in

IUTAM Representative on Scientific Committee: Prof. T. Pedley

14-2 = GA.12-10 IUTAM Symposium on Connecting multiscale mechanics to material complexes design

Place: Evanston, USA
Date: The week of May 11, 2014
Chairman: **Prof. W. K. Liu**
Department of Mechanical Engineering
Northwestern University
2145 Sheridan Road
IL 60208-3 Evanston, USA
Email: w-liu@northwestern.edu

IUTAM Representative on Scientific Committee: Prof. C. Herakovich

14-3 = GA.12-13 IUTAM Symposium on Mechanics of soft active materials

Place: Haifa, Israel
Date: May 12 – May 15, 2014
Chairman: **Prof. K. Volokh**
Technion – Israel Institute of Technology
Haifa, Israel
Email: cvolokh@tx.technion.ac.il

IUTAM Representative on Scientific Committee: Prof. Z. Suo

14-4 = GA.12-12 IUTAM Symposium on Micromechanics of defects in solids

Place: Seville, Spain
Date: June 09 – June 13, 2014
Chairman: **Prof. P. Ariza**
ETSI, University of Sevilla
Camino de los descubrimientos s.n.
41092 Sevilla, Spain
Email: mpariza@us.es

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

14-5 = GA.12-09 IUTAM Symposium on Dynamical analysis of multibody systems with design uncertainties

Place: Stuttgart, Germany
Date: June 10 – June 13, 2014
Chairman: **Prof. M. Hanss**
Institute of Engineering and Computational Mechanics
University of Stuttgart
Pfaffenwaldring 9
70569 Stuttgart, Germany
Email: michael.hanss@itm.uni-stuttgart.de

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

14-6 = GA.12-14 IUTAM Symposium on Thermomechanical-electromagnetic coupling in solids : microstructural and stability aspects

Place: Paris, France
Date: June 16 – June 20, 2014
Chairman: **Prof. N. Triantafyllidis**
Laboratoire de Mécanique des Solides
Ecole Polytechnique
91128 Palaiseau cedex, France
Email: nick@lms.polytechnique.fr

IUTAM Representative on Scientific Committee: Prof. C. Miehe

14-7 = GA.12-06 IUTAM Symposium on Dynamics of capsules, vesicles and cells in flow (also EUROMECH Colloquium 554)

Place: Compiègne, France
Date: July 15 – July 18, 2014
Chairman: **Dr. A.-V. Salsac**
Biomechanics and Bioengineering Laboratory (BMBI,
UMR CNRS 7338)
Université de Technologie de Compiègne
CS 60319
60203 Compiègne cedex, France
Email: a.salsac@utc.fr

IUTAM Representative on Scientific Committee: Prof. G. Leal

14-8 = GA.12-16 IUTAM Symposium on Innovative numerical approaches for materials and structures in multi-scale problems

Place: Burg Schnellenberg near Cologne, Germany
Date: September 01 – September 04, 2014
Chairman: **Prof. K. Weinberg**
Fakultat IV / Maschinenbau
University of Siegen
Paul-Bonatz-Str. 9-11
57076 Siegen, Germany
Email : kerstin.weinberg@uni-siegen.de

IUTAM Representative on Scientific Committee: Prof. W. Ehlers

14-9 = GA.12-08 IUTAM Symposium on Complexity of nonlinear waves

Place: Tallinn, Estonia
Date: September 08 – September 12, 2014
Chairman: **Prof. A. Salupere**

Institute of Cybernetics
Tallinn University of Technology
Akadeemia tee 21
12618 Tallinn, Estonia
Email : salupere@ioc.ee

Co-chairman: **Prof. Gérard Maugin**
Institut Jean Le Rond d'Alembert
Université Pierre et Marie Curie – Paris 6
Case 162, Tour 55, 4 Place Jussieu
75252 Paris cedex, France
Email : gerard.maugin@upmc.fr
Website: <http://www.ioc.ee/iutam2014/>

IUTAM Representative on Scientific Committee: Prof. F. Dias

14-10 = GA.12-05 IUTAM Symposium on Multiphase flows with phase change : challenges and opportunities

Place: Hyderabad, India
Date: December 08 – December 11, 2014
Chairman: **Prof. Kirti Chandra Sahu**

Indian Institute of Technology Hyderabad
Ordnance Factory Estate, Yeddumailaram
502205 Hyderabad, India
Email: ksahu@iith.ac.in

IUTAM Representative on Scientific Committee: Prof. F. Dias

14-11 = GA.12-04 IUTAM Symposium on Advances in computation, modelling and control of transitional and turbulent flows

Place: Goa, India
Date: December 15 – December 18, 2014
Chairman: **Prof. T. Sengupta**
High Performance Computing Laboratory
Dept. of Aerospace Engineering
Indian Institute of Technology Kanpur
208016 Kanpur, India
Email: tksen@iitk.ac.in
Co-chairman: **Prof. S. Lele**
Stanford University
USA
Email: lele@stanford.edu
Website: <http://spectral.iitk.ac.in/hpcl/IUTAM2014/>

IUTAM Representative on Scientific Committee: Prof. B. Eckhardt

14-12 = GA.12-01 IUTAM Symposium on Dynamics of bubbly flows

Place: Mexico, Mexico
Date: TBA
Chairman: **Prof. R. Zenit**
Instituto de Investigaciones en Materiales
Universidad Nacional Autónoma de México
Ciudad Universitaria, Coyoacan
04510 Mexico, Mexico
Email: zenit@unam.mx

IUTAM Representative on Scientific Committee: Prof. J. Magnaudet

IUTAM Symposia 2015

15-1 = GA.12-15 IUTAM Symposium on Analytical methods in nonlinear dynamics

Place: Darmstadt/Franfurt, Germany
Date: July 06 – July 09, 2015
Chairman: **Prof. P. Hagedorn**
Dynamics & Vibrations Group
Numerical Methods in Mechanical Engineering, fnb
Technische Universitat Darmstadt
Dolivostr. 15
64293 Darmstadt, Germany
Email: hagedorn@dyn.tu-darmstadt.de
Co-chairman: **Dr. G. Spelsberg-Korspeter**
Email: speko@dyn.tu-darmstadt.de

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

15-2 = GA.12-03 IUTAM Symposium on Multiphase continuum modelling of particulate flows

Place: Gainesville, USA
Date: TBA
Chairman: **Prof. J. Butler**
Dept. of Chemical Engineering
University of Florida
32611-6005 Gainesville, USA
Email: butler@che.ufl.edu

IUTAM Representative on Scientific Committee: Prof. G. Leal

15-3 = GA.12-07 IUTAM Symposium on Advances in the modelling of geothermal systems

Place: Rotorua, New Zealand
Date: TBA
Chairman: **Prof. G. Weir**
Industrial Research Limited
69 Gracefield road, PO Box 31310
5040 Lower Hutt, New Zealand
Email: g.weir@irl.cri.nz

IUTAM Representative on Scientific Committee: Prof. A. Thess

15-4 = GA.12-11 IUTAM Symposium on Growing solids

Place: Moscow, Russia
Date: TBA
Chairman: **Prof. A. Manzhurov**
Ishlinski Institute for problems in Mechanics
Russian Academy of Sciences
Vernadsky, ave 101, bldg 1
119526 Moscow, Russia
Email: manzh@inbox.ru

IUTAM Representative on Scientific Committee: Prof. N. Gupta

15-5 = GA.12-17 IUTAM Symposium on Plastic localization and ductile failure

Place: Paris, France

Date: TBA

Chairman: **Prof. D. Mohr**

Solid Mechanics Laboratory (LMS)

Ecole Polytechnique

91128 Palaiseau , France

Email: mohr@polytechnique.fr

Co-Chairman: **Prof. K. Ravi-Chandar**

Center for Mechanics of Solids, Structures and Materials

The University of Texas at Austin

Austin, Texas 78712-1221, USA

Email: ravi@utexas.edu

IUTAM Representative on Scientific Committee: Prof. S. Kyriakides

IUTAM Summer Schools

2013

IUTAM-CISM Summer School on Variational approaches to damage in continua and interfaces

Place: Udine, Italy
Event dates: June 10 – June 14, 2013
Coordinator: **Prof. J.-J. Marigo**
Solid Mechanics Laboratory (LMS)
Ecole Polytechnique
91128 Palaiseau , France
Email: marigo@lms.polytechnique.fr

<http://www.cism.it/courses/2013/>

2014

IUTAM-CISM Summer School on Multiscale mechanobiology of bone remodelling and adaptation

Place: Udine, Italy
Event dates: June 23 – June 27, 2014
Coordinator: **Prof. P. Pivonka**
Solid Mechanics Laboratory (LMS)
Australian Institute for Musculoskeletal Science,
Northwest Academic Centre,
The University of Melbourne,
176 Furlong Road, St Albans
Vic 3021, Australia
Email: peter.pivonka@unimelb.edu.au

IUTAM Co-Sponsored Events

2013 **ECCOMAS Thematic Conference on Multibody Dynamics**

Place: Zagreb, Croatia

Date: July 01 – July 04, 2013

Coordinator: **Prof. Z. Terze**

Email: zdravko.terze@fsb.hr

2013 **International Conference on Nonlinear mechanics**

Place: Shanghai, China

Date: August 12 – August 15, 2013

Coordinator: **Prof. D. Q. Lu**

Email: dqlu@shu.edu.cn

2014 **International Conference on Multibody System Dynamics**

Place: Pusan, Korea

Date: June 30 – July 03, 2014

Coordinator IMSD: **Prof. P. Eberhard**

Email: peter.eberhard@itm.uni-stuttgart.de

Coordinator ACMD: **Prof. S. S. Kim**

Email: sookim@cnu.ac.kr

2014 **IUTAM-ABCM Symposium on Laminar-Turbulent Transition**

Place: Rio de Janeiro, Brazil

Date: September 08 – September 12, 2014

Coordinator: **Prof. M. Faraco de Medeiros**

Email: marcello@sc.usp.br

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.

As of January 2011, Procedia IUTAM is the preferred publication route for IUTAM Symposia Proceedings. The homepage is http://www.elsevier.com/wps/product/cws_home/724870

All published volumes may be found on the IUTAM Procedia website (see <http://www.sciencedirect.com/science/journal/22109838>)

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