



NEWSLETTER



President's Address

From the office of the Secretary-General

IUTAM Symposia 2014 and 2015

IUTAM Summer School 2014

IUTAM Co-Sponsored Events 2014

IUTAM General Assembly 2014

IUTAM Home Page:

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

International Union of Theoretical and Applied Mechanics

N-2014-1

June 2014

President's Address

Over the winter and spring we have been much involved in planning the next General Assembly (GA) and Congress Committee (CC) meetings, which will take place in Denmark on 17 to 20 August 2014. The meetings will be at the Technical University (DTU) in Kgs. Lyngby, a little north of Copenhagen, while social arrangements will be in the center of Copenhagen. The full GA and CC meet at DTU on Monday 18 August and Tuesday 19 August, while the day before and the day after are reserved for meetings of the Bureau and the XCCC. Furthermore, on the Sunday the two Symposia Panels shall meet to finalize their proposal on IUTAM Symposia for the years 2016 and 2017.

At the GA meeting important points are the discussion of future International Summer Schools on Mechanics and future IUTAM Symposia to be supported. Financial matters will be central as well. There will also be discussion of matters concerning Adhering Organizations, or Affiliated and Associate Organizations. And there will be suggestions for a few revisions of the IUTAM Statutes.

At the CC meeting important steps in the detailed planning of the next Congress in Montreal will take place. Here the Opening and Closing lecturers will be chosen, together with the Sectional lecturers. The topics for 44 different Thematic Sessions were chosen in Montreal last year at the XCCC meeting, but we now need to find Chairs for these sessions, to promote participation and to help making strong programmes within each of the topics. There will also be discussions on the logistics for handling the submission of presentations for ICTAM2016, the review procedure and final decisions.

I am currently near the end of a six year period as elected member of the Council of EUROMECH, one of the Affiliated Organisations of IUTAM. Therefore I will mention that this year is the 50th anniversary of EUROMECH. The organization is special in that about half of the Adhering Organizations of IUTAM are also part of EUROMECH, mainly because the European countries traditionally are strong supporters of mechanics research. EUROMECH had a slow start after 1964, but the activities have grown, and from my own field I can mention that the last European Solid Mechanics

Conference in Graz, 2012, had more than 1200 participants, from many parts of the world. It is very good for promoting mechanics research that our strong Affiliated Organizations pull in the same direction as IUTAM.

The ICSU General Assembly will take place in Auckland, New Zealand, 30 August to 3 September 2014. The plan is that I will go there to represent IUTAM.

June 2014

Viggo Tvergaard
President of IUTAM
Lyngby

From the office of the Secretary-General

Proposals for IUTAM Symposia and Summer Schools for 2016 and 2017:

The call for proposals has resulted in 20 proposals for Symposia (5 in fluids, 12 in solids and 3 in fluid/structure interaction) and 1 proposal for a Summer School (in fluids). These proposals are being evaluated by the Symposia Panels and they will be discussed at the General Assembly in Lyngby.

Procedia IUTAM :

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

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

The home page of the IUTAM website has been recently modified to put more emphasis on the new Procedia IUTAM series. Indeed, by two simple clicks, millions of researchers can access the papers published in Procedia IUTAM. The monthly usage and citations are rapidly growing. The trend shows that the level of more than 2000 downloads per month will be quickly reached.

IUTAM Annual Report 2013

The IUTAM Annual Report 2013 is scheduled to be distributed in August 2014 to the participants to the General Assembly and to be sent by post in September to the other IUTAM Members.

IUTAM Annual Reports

The treasurer of IUTAM, Peter Eberhard, has organized the scan of all copies of the old IUTAM Reports, all the way back to the first one in 1948. All scanned IUTAM Annual Reports have been put on line: they can be found at

<http://iutam.org/publications/annual-reports/>

June 2014

Frédéric Dias
Secretary General of IUTAM
Cachan & Dublin

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
Website: <http://chemeng.iisc.ernet.in/iutamblr/>

IUTAM Representative on Scientific Committee: Prof. T. Pedley

14-2 = 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
Website: <http://msam.net.technion.ac.il>

IUTAM Representative on Scientific Committee: Prof. Z. Suo

14-3 = GA.12-10 IUTAM Symposium on Connecting multiscale mechanics to material complexes design

Place: Evanston, USA
Date: May 14 – May 16, 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
Website: <https://sites.google.com/site/iutamsymposium2014/>

IUTAM Representative on Scientific Committee: Prof. C. Herakovich

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
Website: <http://congreso.us.es/smds2014>

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
Website: <http://www.itm.uni-stuttgart.de/iutam2014/>

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
Website: <http://hera.polytechnique.fr/users/iutam2014/>

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
Website: <http://www.utc.fr/dynacaps2014/>

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
Website:
http://www.mb.uni-siegen.de/fkm/iutam_symposium_2014/

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
Website: <http://www.iith.ac.in/~iutam2014/>

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

IUTAM Summer School 2014**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
Website: <http://www.cism.it/courses/C1406/>

IUTAM Symposia 2015**15-1 = GA.12-01 IUTAM Symposium on Dynamics of bubbly flows**

Place: Oaxaca, Mexico
Date: March 07 – March 15, 2015
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

15-2 = GA.12-17 IUTAM Symposium on Plastic localization and ductile failure

Place: Paris, France
Date: March 17 – March 20, 2015
Chairman: **Prof. D. Mohr**
Solid Mechanics Laboratory (LMS)
Ecole Polytechnique
91128 Palaiseau , France
Email: mohr@lms.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

15-3 = GA.12-11 IUTAM Symposium on Growing solids

Place: Moscow, Russia
Date: June 23 – June 27, 2015
Chairman: **Prof. A. Manzhirov**
Department for Modeling in Solid Mechanics
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

15-4 = 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 Universität 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

15-5 = 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

IUTAM Co-Sponsored Events

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

Website: <http://imsd-acmd2014.ksme.or.kr/main/>

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

Website: <http://www.ndf.poli.usp.br/SLTT2014/>

IUTAM General Assembly in 2014

The dates of the 2014 meetings of the General Assembly of IUTAM have been set at 18-19 August 2014 in Copenhagen/Kgs. Lyngby, Denmark, with associated committees also meeting on 17 and 20 August. More detailed information will be provided in due time.

International Congress, XXIII ICTAM, Montreal 2016

August 21-26, 2016

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.ictam2016.org/>

or please contact:

Professor Robert McMeeking
Secretary of the IUTAM Congress Committee
Department of Mechanical and Environmental Engineering
University of California
Santa Barbara, CA 93106
Email: rmcm@engineering.ucsb.edu

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.journals.elsevier.com/procedia-iutam/>

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

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<http://www.icsu.org>

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<http://iutam.org/publications/newsletters/>

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