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International Union of Theoretical and Applied Mechanics

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November 2013

President's Address

Over the summer, the most important IUTAM activity has been the meetings of the Bureau and XCCC in Montreal 24 to 26 August 2013. All members attended the meetings, which took place in the Palais des Congrès de Montréal, the site of ICTAM2016. This is a huge congress centre, which has hosted thousands of large events since 1983. The centre could easily host a congress much larger than the expected size of our next ICTAM, and in fact we will only occupy part of the congress centre. The Palais des Congrès is located in the centre of Montreal, within easy walking distance to shopping facilities and to many restaurants. As our meeting took place at the same time of the year as ICTAM2016, it is interesting to note that we had a very pleasant summer weather. This together with the good facilities at the congress centre and its nice location indicates that we can expect to have a very pleasant congress in three years.

During the XCCC meetings ICTAM2012 was reviewed to assess lessons learned. Most time was devoted to the plans for the coming Congress, e.g. the logistics for handling submission of papers, and membership of the International Papers Committee. Topics were decided for 6 Mini-symposia and 44 Thematic Sessions to be held at ICTAM2016. During the last day in Montreal the President and the Secretary General of the Congress, Maciej Floryan and Marius Paraschivoiu, gave us a tour of the congress centre, so that we could see the rooms and other facilities that we will be using in three years.

At the Bureau meetings, among several subjects the IUTAM Working Parties were discussed, and it was noted that in previous discussions there has been a lack of enthusiasm for the WPs. Also relations to ICSU were discussed, where the Secretary General, Frederic Dias, reported on his participation in the ICSU meeting in Paris last April. Financial matters were an important item, dominated by the report of the Treasurer, Peter Eberhard. The possible need for a registration of IUTAM and rules for the application of Symposium Grants were discussed under this item.

A subcommittee with five prominent GA members, chaired by Tim Pedley, had suggested a change of the Statutes, concerning the eligibility for election as Bureau Officers and as the other Bureau members. The text was approved

by the Bureau with a minor change, and will be presented at the next GA meeting for decision.

It is a sad duty to report that Jan Hult from Sweden has died on 20 February 2013 at the age of 85. He served as the Secretary General of IUTAM from 1976 to 1984, and afterwards he was elected by the GA as a Member-at-Large. He was an important member of our field and will be sorely missed.

November 2013

Viggo Tvergaard
President of IUTAM
Lyngby

Short Report on IUTAM Bureau Meeting, Montreal, August 2013

The IUTAM Bureau meeting was held in two sessions on 23 and 24 August 2013 in Montreal, Canada.

Among the items discussed at the meeting were the following:

Matters concerning Adhering Organizations

Argentina has been suspended. The treasurer has prepared a list of countries with missing dues over the last four years. Unfortunately this list is growing. The Bureau is following closely the situation with each individual country in order to avoid suspension.

Matters concerning IUTAM Working Parties

Given the general lack of enthusiasm for the Working Parties (WPs) and the lack of clear role played by the WPs, the Bureau will prepare a recommendation for the next General Assembly.

Matters concerning ICSU

The Secretary General represented IUTAM at the Meeting of the International Scientific Unions of ICSU, Paris, France, 29-30 April 2013. A report will be included in the 2013 Annual Report.

In 2012, the Bureau agreed to join IMU and IUGG to organize an educational and capacity-building workshop entitled “Mathematical Methods in Geosciences: Natural Hazards, Climate Change and Related Risks”, as part of the global program Mathematics of Planet Earth 2013. A proposal led by IMU was submitted to ICSU on 01 December 2012. It was successful and a 30,000 € grant was given to the organizers. The workshop took place in Guanajuato, Mexico during July 29 – August 2, 2013 and was a satellite of the 2013 Mathematical Congress of the Americas. IUTAM was represented by Dr. Ramón Tovar Olvera. A report will be included in the 2013 Annual Report.

The next ICSU General Assembly will take place in Auckland, New-Zealand, on 19-24 August 2014. IUTAM will be represented.

Reports by the Treasurer and the Secretary-General

The financial shape of the Union was discussed, as well as the state of affairs with respect to the IUTAM Symposia.

The next meetings of the Bureau are scheduled together with the General Assembly in Copenhagen/Kgs. Lyngby, Denmark, August 18-19, 2014. The Bureau will have two meetings, on August 17 and August 20.

Frédéric Dias
Secretary General of IUTAM
Cachan & Dublin

Short Report on IUTAM XCCC Meeting, Montreal, August 2013

The Executive Committee of the Congress Committee of IUTAM, known colloquially as the XCCC, met in Montréal on the 24th and 25th August, 2013. The full committee was in attendance, namely IUTAM President Viggo Tvergaard, who chairs both the full Congress Committee and the XCCC, Congress Committee Secretary Robert McMeeking who is also XCCC Secretary, ICTAM2016 President Maciej Floryan, who is an XCCC Member *ex officio*, and XCCC Members Dick van Campen, Bruno Eckhardt, Jacques Magnaudet and Gábor Stépán. In addition, ICTAM2016 Secretary-General Marius Paraschivoiu was present as an Observer.

The meeting agenda was concerned with planning for ICTAM2016 in Montréal, which will be held from Sunday 21st to Friday 26th August, 2016.

The Committee first discussed lessons learned from ICTAM2012 in Beijing. There was agreement that the use of fixed microphones for podium presentations at ICTAM is unsatisfactory, whereas lapel microphones are preferred and should be used for ICTAM2016. In addition, experience at ICTAM2012 regarding the audio-visual equipment has made the XCCC aware that it is important that the system used for ICTAMs should be simple and flexible. In addition, it was noted that the technology embedded in laptop computers, tablets and smart phones, and systems available via the internet such as cloud storage evolve very fast, and are making new ways presentation possible at conferences. The XCCC therefore resolved that the technology for the audio-visual system at ICTAMs must keep up with these changes to accommodate the new styles and methods being adopted by speakers.

It was noted that the proceedings of ICTAM2008 were finally published early in 2013 and those for ICTAM2012 would appear later in 2013. The XCCC discussed how to handle proceedings for ICTAM2016. Suggestions for this were formulated and will be presented to the Congress Committee at its meeting in Lyngby, Denmark in August 2014. The XCCC also discussed simplifying the procedure for submitting abstracts to ICTAM, specifically with the intention of requiring only a single 2-page document without the separate abstract previously required.

The composition of the International Papers Committee (IPC) was also discussed and its final make-up will be announced in due course. The timetable that will be adhered to for ICTAM2016 will require submission of 2 page abstract/short papers by 15th January, 2016. National Committees, Symposium Organizers and IPC will read abstracts starting 16th January, with National Committees and Symposium Organizers submitting recommendations by 1st March, 2016. The IPC will meet in Canada some time between 21st March 2016 and 9th April 2016 to select papers chosen for presentation. Decisions will then be transmitted to submitters before the end of April.

The XCCC decided to retain the current format of the Congress but with Pre-Nominated Sessions renamed Thematic Sessions and Seminar Presentations renamed Short Talk and Poster. The Committee judged the names Pre-Nominated Sessions and Seminar Presentations to be obscure and confusing and that use of the new names will make the nature of these sessions clearer to those submitting abstracts/short papers. Minisymposia will also be retained as venues within ICTAM2016 and other future Congresses.

The proposals for Minisymposia at ICTAM2016 were then discussed and 6 topics downselected. These decisions will be announced in due course along with the Minisymposia organizers. In addition, the list of Thematic Sessions (previously Pre-Nominated Sessions) was updated and this information will be communicated too at a future date.

Procedures for nominations to the Congress Committee were discussed and it was decided that these should be simplified somewhat as the previous documentation requirements were quite burdensome and are thought to have discouraged nominations. After finalization, the new procedure will be publicized and will involve a simpler nomination form and a lessened requirement for supporting information concerning the candidate.

After the meetings, the XCCC was given a tour of the venue for ICTAM2016, the Palais des congress de Montréal. The Committee assessed the arrangements for the Opening and Closing Lectures, the Prize and Sectional Lectures, the contributed paper sessions and the General Assembly, Bureau and Committee Meetings. The Palais des Congres de Montréal struck the XCCC as an excellent venue in a convenient and

attractive location in Montréal. The Committee thus looks forward to an interesting and successful Congress there in 2016.

Robert McMeeking
Secretary of the Congress Committee
Santa Barbara

From the office of the Secretary-General

Procedia IUTAM :

The new series, which was launched successfully in 2011, has now nine 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.

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

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

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 Symposia 2015

15-1 = 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

15-2 = 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

15-3 = 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

15-4 = 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

15-5 = 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

15-6 = 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@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

IUTAM Summer Schools

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

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.

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

The call for proposals for IUTAM Symposia and IUTAM Summer Schools for the years 2016 and 2017 will be available very shortly on the IUTAM Website (<http://www.iutam.net>). Information can be obtained from the IUTAM Secretariat. The deadline for online submission of proposals is 1 May 2014.

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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