



NEWSLETTER

President's Address

Report by the Secretary of the CC at the XXIV ICTAM

Short Report on IUTAM General Assembly, August 2016

IUTAM Symposia 2016, 2017, 2018 and 2019

IUTAM Summer Schools 2017 and 2019

IUTAM Co-Sponsored Events 2017 and 2018

IUTAM Home Page:

<http://www.iutam.net>

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

International Union of Theoretical and Applied Mechanics

N-2016-2

October 2016

President's Address

The big event this summer was ICTAM2016 in Montreal. I think the congress was a great success. The meeting attracted really many participants, more than 2000 were registered. But in addition I have also been pleased to hear from a number of participants that the quality was higher than in any recent ICTAM. Here the work of the Congress Committee in selecting topics and chairmen for the mini symposia and thematic sessions was important, together with the enormous effort of the six members of the IPC, who read all the abstracts submitted. And it was important that outstanding scientists, including younger scientists, had been invited to give the plenary and sectional lectures. The success of the congress was also very much due to the local planning of the ICTAM president Maciej Floryan and his team, and the big effort of the CC secretary general, Bob McMeeking.

The work of the CC in Montreal was much focused on selecting the location for our next ICTAM, in 2020. Four very attractive bids were presented to the CC, and finally it was decided by a vote that we will go to Milano. This is an exciting city in northern Italy, and it will be very interesting to follow the continued planning by the team in Milano, headed by Alberto Corigliano, who will be the president of ICTAM2020. For me this will be more at a distance, as I now end my term as Chair of the CC and the XCCC.

For the bureau an important item in Montreal was the election of the members of the new bureau starting from 1 November. Four new bureau members were elected by the GA, while four members continue from the old bureau. Our new president will be Nadine Aubry, who has grown up in France but has had her scientific career in the US. It is tradition that the IUTAM presidents change between the fields of solids and fluids, and Nadine comes from fluid mechanics. Beside the scientific work, Nadine has been chair of the US National Committee for Theoretical and Applied Mechanics, and of the Division of Fluid Dynamics of the American Physics Society. I look forward to cooperate with Nadine in the bureau in the coming years.

As a last duty in my period as president I shall go to Oslo at the end of October to represent IUTAM at an extraordinary GA of ICSU. It is being proposed that ICSU should merge with ISSC (the International Social Science Council). This has been discussed in our bureau, and I shall express

our opinion that such a merger will not give a stronger representation for the scientific unions.

October 2016
Viggo Tvergaard, President of IUTAM
Lyngby, Denmark

Report by the Congress Committee Secretary on ICTAM2016 and on the Congress Committee and Executive Committee Meetings at the 24th Congress in Montréal

The 24th Congress of Theoretical and Applied Mechanics, held in Montréal from 21st to 26th August 2016, was a tremendous success in a highly agreeable location. It was the largest Congress ever, with 2,106 registered participants from 62 different countries, showing that IUTAM and its Congress play a pivotal role in sustaining and increasing the significance of theoretical and applied mechanics throughout the world. Let me provide some statistics. The number of submitted plus invited papers was 2,308, with 1,046 in fluids and 1,241 in solids. Of those submitted, the International Papers Committee (IPC) accepted 1,862 papers and in addition there were 188 invited presentations. Setting aside the invited papers, the acceptance rate was thus 89%. There were 960 submissions accepted as 20-minute lectures and 902 as short talks with poster; members of the IPC commented very favorably on the quality of the submissions. The invited papers were broken down into 4 plenary lectures, 16 sectional lectures and 168 invited papers associated with Mini-Symposia and Thematic Sessions. As for the previous ICTAMs, the chairs of Mini-Symposia and Thematic Sessions (previously known as pre-nominated sessions) were entitled to invite up to four speakers without any possibility of these being rejected by the IPC; these account for the 168 papers mentioned above.

In the final program the number of invited presentations was 188, contributed lectures numbered 950 and short talks with posters amounted to 549, giving a grand total 1,687. After authors had been notified of the decisions of the International Papers Committee a total of 251 papers were withdrawn, while 130 presenters failed to register for the congress and were removed from the program. Most of the withdrawn papers were short talks with posters. While the number of withdrawn and eliminated papers is

disappointingly high, the organizers are to be complemented in efficiently managing the process of finalizing the program so that the number of no-shows was minimal. The organizers achieved this partly through a rigorous approach to eliminating those who did not register, and through flexibility in allowing some talks to be given by an alternative presenter. In the end, there were only 10 no shows for the 20-minute oral presentations, keeping gaps in the program to an acceptable minimum.

As is now customary, 2 of the plenary lectures were given on fluids subjects and 2 on solids topics. Two of the plenary presentations are the prize lectures, discussed below. The other plenary lectures, the opening and closing talks, were given, respectively, by Professor Richard Peltier of the University of Toronto on geophysical fluid dynamics and by Professor Norman Fleck of the University of Cambridge on lattice materials. There were 16 Sectional Lectures, presented 4 at a time, with 6 of them on fluids, 7 on solids and 3 on solids/fluids. In the 6 Mini-Symposia, there were 175 papers altogether, 30 in fluids and 145 in solids. The remaining papers, presented in Thematic Sessions, were such that 599 papers covered fluids topics, 674 solids themes and 219 fluids/solids subjects.

I should touch on the Opening Ceremony, where we were welcomed by our Canadian hosts, ICTAM2016 President Maciej Floryan and Dick Bourgeois-Doyle, Secretary General of the National Research Council Canada, and by IUTAM President Viggo Tvergaard. In addition, there were special demonstrations of theoretical and applied mechanics by performers of Cirque Éloize. These acrobatic artistes used all the principles of mechanics to produce three beautiful performances of gymnastic dances, invoking equilibrium, momentum, tension, compression, dynamics and inertia to produce an impressive aesthetic experience. At the conclusion of the Opening Ceremony Professor Michael Paidoussis, Honorary Chair of the Congress, in a traditional act for the Canadian theoretical and applied mechanics community, rang the bell that is otherwise used to signify the opening and closing of the Canadian Congress of Applied Mechanics (CANCAM). Thereafter Professor Richard Peltier presented his Opening Lecture.

At ICTAM2016 the two major IUTAM prizes have been awarded for the third time: the G.K. Batchelor Prize for Fluid Mechanics and the Rodney Hill Prize for Solid Mechanics. The former is sponsored by Cambridge

University Press (CUP), publisher of the Journal of Fluid Mechanics, to honor the memory of George Batchelor who founded that journal in 1956. The latter is sponsored by Elsevier, publisher of many solid mechanics journals, notably the Journal of the Mechanics and Physics of Solids, founded by Rodney Hill in 1952. Both prizes were awarded this time for major research achievements in the ten years 2006 to 2015 inclusive; they are to be awarded every four years and are worth US\$ 25,000 each. The committees to select the prizewinners awarded the Batchelor Prize to Professor Raymond Goldstein of the University of Cambridge and the Hill Prize to Professor Ray Ogden of the University of Glasgow. Everyone agrees that the two prizewinners are outstandingly worthy of the awards. In association with the awards, the winners gave plenary lectures at the 24th Congress, both of which were very well received.

This has been a resoundingly successful Congress, both scientifically and in terms of organization. On behalf of the IUTAM Congress Committee, and all participants, I would like to express our profound thanks to the President of the Congress, Professor Maciej Floryan for his immense contribution to ensuring that success. The other members of the National Advisory Committee are also to be thanked for their contributions to the success of the Congress. Thanks should also go to the volunteers, who were invariably helpful in setting up events, in directing participants in the right direction, and in helping us all operate our computer-stored presentation. The conference organizing team working with Professor Floryan did a marvelous job, and we are especially grateful to Michèle Bourgeois-Doyle of the National Research Council Canada and to Laura Chajkowski and Sophie Deville of Legends Conference Planning, all of whom worked tirelessly and efficiently to ensure the smooth running of the Congress. We should also warmly thank many institutions that have provided sponsorship for the Congress, including the National Research Council Canada, which not only contributed to organizing ICTAM2016, but also indemnified the financial risk. The Virginia Tech Department of Biomedical Engineering and Mechanics was the Gold Sponsor of the Congress, while the Silver and Bronze levels of sponsorship were provided by the University of Toronto Faculty of Applied Science and Engineering, and by McMaster University Engineering, respectively. Additional financial support was provided by Concordia University, McGill University, the University of Waterloo, the University of Ottawa, Western University, CANCAM, and the Pacific Institute for Mathematical Sciences, for which IUTAM is grateful.

On behalf of the Congress Committee, I would like to thank the members of the International Papers Committee (IPC) for their dedicated hard work in evaluating and selecting the papers to be presented at the Congress. The members were Professors Bruno Eckhardt, John Hinch, Stelios Kyriakides, Henryk Petryk, Andrew Pollard and Gábor Stépan. This Committee did a heroic job of reading all submissions in February and March of this year, and then had an intense 3-day meeting in Montréal at the beginning of April. The IPC was guided by the recommendations of the chairs of the Mini-Symposia and the Thematic Sessions, and by the national committees of eight major countries: Canada, China, France, Germany, Poland, Russia, UK and USA. All those involved in the paper assessment process deserve our warm thanks, especially the IPC, whose wise input and extraordinary efforts ensured the high quality of the Congress.

Next I turn to decisions that the Congress Committee made during ICTAM2016. By the beginning of the summer this year the Committee had received four very strong bids to host ICTAM2020. These were from Malmø, Milan, Paris and St. Petersburg. The submissions were presented to the Congress Committee by the prospective hosts and were discussed in great detail at the meetings of the Congress Committee on Sunday 21st August and Thursday 25th August. The final decision was made on Thursday by secret ballot. As was announced at the Congress banquet, the vote favored Milan, so the 25th Congress of Theoretical and Applied Mechanics will be held in there from 23rd to 28th August 2020. It will be organized under the leadership of ICTAM2020 President Alberto Corigliano and ICTAM2020 Secretary-General Umberto Perego.

Now I report on the membership of the Congress Committee. The following retire from the Committee on 31st October 2016: Professors Dick van Campen, Frederic Dias, Narinder Gupta, Nikos Makris, Yukio Kaneda, Renzo Piva and Viggo Tvergaard. I would like to thank them all for their hard work for the Committee, but give special mention to our retiring IUTAM President, Viggo Tvergaard, who Chaired both the Congress Committee and its Executive Committee in addition to all his other duties as leader of the Union. In addition, Dick van Campen deserves special thanks for stepping in as Acting Secretary of the Congress Committee upon the untimely death of Hassan Aref in 2011. Not only did he do an excellent job in his temporary capacity until 2012, but also on the Executive Committee

during 2012 to 2016 he helped to provide continuity and experience to fill the gap left by the tragic loss of Professor Aref.

At its meetings during the Congress, the General Assembly elected the following new members of the Congress Committee: Professors Pilar Ariza (Spain), Shiyi Chen (China), Peter Hunter (New Zealand), Henryk Petryk (Poland, also Secretary-General Elect of IUTAM), Maria Salvetti (Italy) and Hiroshi Yabuno (Japan). They will serve from 1st November 2016 to 31st October 2020, at which time they will be eligible for a 2nd 4-year term. ICTAM2016 President Maciej Floryan was also elected as a member of the Congress Committee from 2016 to 2020. He served as a member ex officio from 2012 to 2016, but from 1st November 2016 he will serve as a member in his own right.

The following members were re-elected for the period 2016 to 2020: Professors Leslie Banks-Sills (Israel), Bruno Eckhardt (Germany), Horacio Espinosa (USA), Huajian Gao (USA), Patrick Huerre (France), Ann Karagozian (USA), Djimedo Kondo (France), Tianjian Lu (China), Jacques Magnaudet (France), Valery Matveenko (Russia), Robert McMeeking (USA), Eric Shaqfeh (USA), Gábor Stépán (Hungary) and Jens Walther (Denmark).

The new President of IUTAM, Nadine Aubry, will serve as Chair of the Congress Committee and Professor Robert McMeeking was re-elected as its Secretary.

At its meeting on 25th August the General Assembly appointed the new Executive Committee of the Congress Committee effective 1st November 2016 for 4 years. It will be Chaired by IUTAM President Elect Nadine Aubry and Robert McMeeking will be its Secretary. The elected members of the Executive Committee will be Professors Leslie Banks-Sills, Bruno Eckhardt Jacques Magnaudet and Gábor Stépán.

The Congress Committee also appointed ICTAM2020 President Alberto Corigliano as a member ex officio for the period 2016 to 2020, and he will be appointed in the same capacity to the Executive Committee. This will enable the Executive Committee to work closely with Professor Corigliano as he prepares the organization of the 25th Congress. For the same reason,

ICTAM2020 Secretary-General Umberto Perego will be invited to attend meetings of the Executive Committee as a guest and observer.

Finally I would like to conclude this report by re-iterating our sincere thanks to Maciej Floryan for his warm hospitality and devoted efforts in making the 24th Congress the success it has been.

Robert M. McMeeking
Secretary of the Congress Committee of IUTAM
Santa-Barbara, USA

Short Report on IUTAM General Assembly, August 2016

(The complete summary record of the IUTAM General Assembly meeting will be published in the IUTAM Report 2016)

The IUTAM General Assembly was held in two sessions on 23 and 24 August 2016 in Montréal, Canada. The attendance was very good. Among the items discussed and decided upon at the meeting were the following:

Matters concerning Adhering Organizations

The General Assembly agreed to increase the number of representatives of China's adhering organisation (CSTAM) from 4 to 5.

Matters concerning Associate Organizations

The General Assembly voted in favour of Armenia becoming an associate organisation of IUTAM.

Matters concerning Affiliated Organizations

The General Assembly voted in favour of the World Council for Biomechanics (WCB) becoming an affiliated organisation of IUTAM.

IUTAM Symposia 2018 and 2019

The General Assembly agreed on 23 IUTAM Symposia to be held in the years 2018 and 2019. These Symposia are listed hereafter in this Newsletter and also 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

The General Assembly agreed on one School to be held in 2017 and one in 2019. One is an IUTAM-CISM Summer School, the other one an IUTAM-BICTAM. More information on these Schools is given hereafter in this Newsletter and also on the IUTAM website.

Election of members of the Bureau of IUTAM

The General Assembly elected the following members to the Bureau for the period 2016-2020:

Officers: Profs. N. Aubry (President), V. Tvergaard (Vice-President), P. Eberhard (Treasurer) and H. Petryk (Secretary-General);

Members: Profs. N. Fleck, A. Freire, I. Goryacheva and B. Schrefler.

Election of Members-at-Large

The General Assembly elected the following Members-at-Large for the period 2016-2020:

Profs. J.D. Achenbach, Y. Bai, B. Freund, G. Maier, H.K. Moffatt, R. Narasimha, N. Olhoff, T. Pedley, J. Salençon, W. Schiehlen, T. Tatsumi, L. van Wijngaarden.

Note that B. Boley is a “life member”.

Election of members of the Congress Committee of IUTAM

This has been reported by the Secretary of the Congress Committee earlier in this Newsletter. The new membership of the Congress Committee from 1 November 2016 is recorded on the IUTAM website.

Symposia Panels

The General Assembly appointed:

- Prof. D. Lohse as chairman of the Symposia Panel for Fluid Mechanics for the period 2016-2020
- Prof. H. Gao as chairman of the Symposia Panel for Solid Mechanics for the period 2016-2020
- Profs. E. Guazzelli and H. Liu as new members to the Symposia Panel for Fluid Mechanics for the period 2016-2020
- Profs. A. Belyaev and W. Desmet as new members to the Symposia Panel for Solid Mechanics for the period 2016-2020

The membership of the Symposia Panels is recorded on the IUTAM website.

Procedia IUTAM :

The series was launched successfully in 2011. There are now 19 volumes available on the website:

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

Frédéric Dias
Secretary General of IUTAM
Cachan & Dublin

PS: The IUTAM Bureau Prizes were announced during the last session of ICTAM2016.

IUTAM Bureau Prize for the best lecture in Fluid Mechanics by a young scientist:

Mist harvesting with vertical fibers

Romain Labbé, LadHyX, Ecole polytechnique, Palaiseau, France

IUTAM Bureau Prize for the best lecture in Solid Mechanics by a young scientist:

The effect of polydispersity on the crushing of open-cell random foams

Prof. Stavros Gaitanaros, John Hopkins University, Baltimore, USA

IUTAM Bureau Prize for the best seminar presentation by a young scientist:

A new model for the two-fluid laminar classical wake

Dr. Ashleigh Hutchinson, University of the Witwatersrand, Johannesburg, South Africa

IUTAM Symposia 2016**16-9 = GA.14-01 IUTAM Symposium on Storm surge modelling and forecasting**

Place: Shanghai, China
Date: October 17 – October 19, 2016
Chairman: **Prof. H. Liu**
Shanghai Jiao Tong University
Mulan Building A-801, School of NAOCE, SJTU,
800 Dongchuan Road, 200240 Shanghai, China
Email: hliu@sjtu.edu.cn
Website: <http://hydrodyn.sjtu.edu.cn/2016conf/>

IUTAM Representative on Scientific Committee: Prof. F. Dias

16-10 = GA.14-09 IUTAM Symposium on Nonlinear and delayed dynamics of mechatronic systems

Place: Nanjing, China
Date: October 17 – October 21, 2016
Chairman: **Prof. Z. Wang**
Nanjing University of Aeronautics and Astronautics
State Key Laboratory of Mechanics and Control of
Mechanical Structures, 210016, Nanjing
China
Email: zhwang@nuaa.edu.cn
Co-Chairman: **Prof. T. Insperger**
Budapest University of Technology and Economics
Department of Applied Mechanics
Budapest, H-1521
Hungary
Email: insperger@mm.bme.hu
Website: <http://iutam2016.nuaa.edu.cn/>

IUTAM Representative on Scientific Committee: Prof. G. Stepan

IUTAM Symposia 2017

17-1 = GA.14-07 **IUTAM Symposium on Computational mechanics of particle-functionalized fluid and solid materials for additive manufacturing and 3D printing processes**

Place: Berkeley, USA
Date: May 30 – May 31, 2017
Chairman: **Prof. T. Zohdi**
University of California, Berkeley
6117 Etcheverry Hall, Department of Mechanical Engineering, UC Berkeley
94720-1740 Berkeley, United States
Email: zohdi@berkeley.edu
Prof. E. Shaqfeh
Stanford University, United States
Email: esgs@stanford.edu

IUTAM Representative on Scientific Committee: Prof. B. Schrefler

17-2 = GA.14-05 **IUTAM Symposium on Dynamics and topology of vorticity and vortices**

Place: Carry-le-Rouet, France
Date: June 13 – June 16, 2017
Chairman: **Prof. M. Brøns**
Technical University of Denmark
Department of Applied Mathematics and Computer Science
2800 Kongens Lyngby, Denmark
Email: mobr@dtu.dk

IUTAM Representative on Scientific Committee: Prof. K. Moffatt

17-3 = GA.14-13 IUTAM Symposium on Multi-scale fatigue, fracture and damage of materials in harsh environments

Place: Galway, Ireland
Date: August 28 – September 1, 2017
Chairman: **Prof. P. O'Donoghue**
National University of Ireland Galway
University Rd
Galway, Ireland
Email: padraic.odonoghue@nuigalway.ie
Co-Chairman: **Prof. S. Leen**
National University of Ireland Galway
University Rd
Galway, Ireland
Email: sean.leen@nuigalway.ie

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

17-4 = GA.14-02 IUTAM Symposium on Wind waves

Place: London, UK
Date: September 4 – September 8, 2017
Chairman: **Prof. R. Grimshaw**
University College London
Department of Mathematics
Gower Street
WC1E 6BT London, UK
Email: r.grimshaw@ucl.ac.uk

IUTAM Representative on Scientific Committee: Prof. F. Dias

17-5 = GA.14-06 IUTAM Symposium on Co-simulation and solver coupling – Recent developments in theory and application

Place: Darmstadt, Germany
Date: September 18 – September 20, 2017
Chairman: **Prof. B. Schweizer**
Department of Mechanical Engineering
Institute of Structural Dynamics
Technische Universität Darmstadt
Petersenstrasse 30
64287 Darmstadt, Germany
Email: schweizer@sds.tu-darmstadt.de

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

17-6 = GA.16-12 IUTAM Symposium on Intelligent multibody systems-dynamics, control, simulation

Place: Sofia, Bulgaria
Date: September 11 – September 15, 2017
Chairman: **Prof. E. Zahariev**
Bulgarian Institute of Sciences
Institute of Mechanics
Acad. G. Bonchev St., bl 4, 1113, Sofia, Bulgaria
Email: evtimvz@bas.bg

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

IUTAM Symposia 2018

18-1 = GA.16-02 IUTAM Symposium on Motile cells in complex environments

Place: Udine, Italy
Date: **2018, no exact dates available yet**
Chairman: **Prof. C. Marchioli**
University of Udine
Via delle Scienze 206
33100 Udine, Italy
Email: marchioli@uniud.it

IUTAM Representative on Scientific Committee: Prof. B. Schrefler

18-2 = GA.16-05 IUTAM Symposium on Dynamics and Stability of Fluid Interfaces

Place: Gainesville, USA
Date: **2018, no exact dates available yet**
Chairman: **Prof. R. Narayanan**
University of Florida
P.O. Box 116 005
32611 Gainesville, USA
Email: ranga@ufl.edu

IUTAM Representative on Scientific Committee: Prof. N. Aubry

18-3 = GA.16-06 IUTAM Symposium on Dynamics of Complex Fluids and Interfaces

Place: Kanpur, India
Date: **2018, no exact dates available yet**
Chairman: **Prof. I. Sharma**
Indian Institute of Technology
Dept. of Mechanical Engineering
213B, Northern Laboratories I
208016 Kanpur, India
Email: ishans@iitk.ac.in

IUTAM Representative on Scientific Committee: Prof. A. Freire

18-4 = GA.16-08 IUTAM Symposium on Stochastic dynamical systems approaches to fluid flow transitions

Place: Ithaca, New York, USA
Date: **2018, no exact dates available yet**
Chairman: **Prof. H. Dijkstra**
Utrecht University
Dept. of Physics and Astronomy
Princetonplein 5
3584 CC Utrecht, The Netherlands
Email: had54@cornell.edu

IUTAM Representative on Scientific Committee: Prof. N. Aubry

18-5 = GA.16-09 IUTAM Symposium on Recent Advances in Moving Boundary Problems in Mechanics

Place: Christchurch, New Zealand
Date: **2018, no exact dates available yet**
Chairman: **Dr S. Gutschmidt**
University of Canterbury
Dept. of Mechanical Engineering
Private Bag 4800
8140 Christchurch, New Zealand
Email: stefanie.gutschmidt@canterbury.ac.nz

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

18-6 = GA.16-11 IUTAM Symposium on Critical flow dynamics involving moving/deformable structures with design applications

Place: Santorini Island, Greece
Date: June 18 – June 22, 2018
Chairman: **Prof. M. Braza**
Institut de Mécanique des Fluides de Toulouse UMR
CNRS 5502
Allée du Prof. Camille Soula
31400 Toulouse, France
Email: marianna.braza@imft.fr
Website: www.smartwing.org/iutam

IUTAM Representative on Scientific Committee: Prof. B. Schrefler

18-7 = GA.16-14 IUTAM Symposium on Mechanics of Electro/Magneto-active Materials and Structures

Place: Beijing, China
Date: **2018, no exact dates available yet**
Chairman: **Prof. D. Fang**
University of Pekin
Room 511, Mechanical Building
5 Yiheyuan road, Haidan
100871 Beijing, China
Email: fangdn@pku.edu.cn

Co-Chairman: **Prof. C. Lynch**
University of California, Los Angeles
Los Angeles, USA
Email: cslynch@seas.ucla.edu

IUTAM Representative on Scientific Committee: Prof. H. Gao

18-8 = GA.16-15 IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems

Place: Novi Sad, Serbia
Date: July 15 – July 19, 2018
Chairman: **Prof. I. Kovacic**
University of Novi Sad
Faculty of Technical Sciences, CEVAS
Trg Dositeja Obradovica 6
21000 Novi Sad, Serbia
Email: ivanakov@uns.ac.rs

Co-Chairman: **Prof. S. Lenci**
Polytechnic University of Marche
Ancona, Italy
Email: lenci@univpm.it

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

18-9 = GA.16-16 IUTAM Symposium on Architected Material Mechanics

Place: Chicago, USA
Date: **2018, no exact dates available yet**
Chairman: **Prof. T. Siegmund**

Purdue University
School of Mechanical Engineering
585 Purdue Mall
47907 West Lafayette, USA

Email: siegmund@purdue.edu

Co-Chairman: **Prof. F. Barthelat**
McGill University
Department of Mechanical Engineering
817 Sherbrooke Street
QC H3A 2K6 Montreal, Canada

Email: francois.barthelat@mcgill.ca

Website:

<https://engineering.purdue.edu/IUTAM2018AMS>

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

18-10 = GA.16-17 IUTAM Symposium on Mechanical design and analysis for AM technologies (AMT 2018)

Place: Moscow, Russia
Date: **2018, no exact dates available yet**
Chairman: **Prof. A. Manzhurov**

Russian Academy of Sciences
Ishlinsky Institute for Problems in Mechanics
Vernadsky ave 101 Bld 1
119526 Moscow, Russia

Email: manzh@inbox.ru

IUTAM Representative on Scientific Committee: Prof. I. Goryacheva

18-11 = GA.16-18 IUTAM Symposium on When topology optimization meets additive manufacturing-theory and methods

Place: Dalian, China
Date: **2018, no exact dates available yet**
Chairman: **Prof. G. Cheng**
Dalian University of Technology
State key Lab. of structural analysis for industrial equip.
Liaoning
116023 Dalian, China
Email: chenggd@dlut.edu.cn

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

18-12 = GA.16-20 IUTAM Symposium on Phase Transformation in Shape Memory Materials: Modeling and Applications

Place: Austin, USA
Date: **2018, no exact dates available yet**
Chairman: **Prof. C. Landis**
University of Texas
210 East 24th street
78712 Austin, Texas, USA
Email: landis@utexas.edu

IUTAM Representative on Scientific Committee: Prof. H. Petryk

18-13 = GA.16-21 IUTAM Symposium on Mechanical environments of living cells

Place: Xi'an, China
Date: **2018, no exact dates available yet**
Chairman: **Prof. T.J. Lu**
Xi'an Jiaotong University
28 Xianning West Road
710049 Xi'an, Shaanxi, China
Email: tjlu@xjtu.edu.cn

IUTAM Representative on Scientific Committee: Prof. N. Fleck

18-14 = GA.16-22 IUTAM Symposium on Size-effects in Microstructure and Damage Evolution

Place: Lyngby, Denmark
Date: **2018, no exact dates available yet**
Chairman: **Prof. C. Niordson**
Technical University of Denmark
Nils Koppels Allé, building 404
2800 Kgs. Lyngby, Denmark
Email: cn@mek.dtu.dk

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

18-15 = GA.16-23 IUTAM Symposium on Acoustic/elastic metamaterials, their design and applications

Place: Beijing, China
Date: **2018, no exact dates available yet**
Chairman: **Prof. G. Hu**
Beijing Institute of Technology
5 South Zhongguanchun Street
100081, Beijing, China
Email: hugeng@bit.edu.cn

IUTAM Representative on Scientific Committee: Prof. W. Yang

18-16 = GA.16-13 IUTAM Symposium on Model Order Reduction of Coupled Systems (MORCOS 2018)

Place: Stuttgart, Germany
Date: May 22 – May 25, 2018
Chairman: **Prof. J. Fehr**
University of Stuttgart
Institute of Engineering and Computational Mechanics
Pfaffenwaldring 9
70569 Stuttgart, Germany
Email: joerg.fehr@itm.uni-stuttgart.de
Website: www.itm.uni-stuttgart.de/iutam2018

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

IUTAM Symposia 2019

19-1 = GA.16-01 IUTAM Symposium on Laminar Turbulent Transition

Place: London, UK
Date: **2019, no exact dates available yet**
Chairman: **Prof. P. Schmid**
Imperial College London
Dept. of Mathematics
South Kensington Campus
SW7 2AZ London, UK
Email: pjschmid@imperial.ac.uk

IUTAM Representative on Scientific Committee: Prof. T. Pedley

19-2 = GA.16-03 IUTAM Symposium on Computational modelling of instabilities and turbulence in separated two-phase flows

Place: Dublin, Ireland
Date: **2019, no exact dates available yet**
Chairman: **Prof. L. O’Naraigh**
University College Dublin
Belfield
D04 V1W8 Dublin, Ireland
Email: onaraigh@maths.ucd.ie

IUTAM Representative on Scientific Committee: Prof. J. Magnaudet

19-3 = GA.16-04 IUTAM Symposium on Vortex Dynamics in Science, Nature and Technology

Place: La Jolla, USA
Date: **2019, no exact dates available yet**
Chairman: **Prof. S. Llewellyn Smith**
University of California, San Diego
Dept. of Mathematical and Aerospace Engineering
9500 Gilman Dr
92093-0411 La Jolla, USA
Email: sgls@ucsd.edu

IUTAM Representative on Scientific Committee: Prof. G. Leal

19-4 = GA.16-07 IUTAM Symposium on Viscoplastic Flows: From Theory to Application

Place: Cambridge, USA
Date: **2019, no exact dates available yet**
Chairman: **Prof. G. McKinley**
MIT
Room 3-254
77 Massachusetts Avenue
MA 02139 Cambridge, USA
Email: gareth@mit.edu

IUTAM Representative on Scientific Committee: Prof. N. Aubry

19-5 = GA.16-10 IUTAM Symposium on Physics and Mechanics of Sea Ice

Place: Espoo, Finland
Date: **2019, no exact dates available yet**
Chairman: **Prof. J. Tuhkuri**
Aalto University, School of Engineering
Dept. of Mechanical Engineering
P.O. Box 14300
FI-00076 Espoo, Finland
Email: jukka.tuhkuri@aalto.fi

IUTAM Representative on Scientific Committee: Prof. R. McMeeking

19-6 = GA.16-19 IUTAM Symposium on Mechanics of Advanced Composites Joining for Structural Applications

Place: Limerick, Ireland
Date: **2019, no exact dates available yet**
Chairman: **Prof. C. McCarthy**
University of Limerick
Plassey, Castletroy
V94 T9PX Limerick, Ireland
Email: conor.mccarthy@ul.ie

IUTAM Representative on Scientific Committee: Prof. N. Fleck

IUTAM Summer School

2017

IUTAM-CISM Summer School on Growth and Remodeling in Soft Biological Tissue

Place: Udine, Italy
Event dates: June 12 – June 16, 2017
Coordinator: **Prof. C. Cyron**
Technical University of Munich
Dept. of Mechanical Engineering
Boltzmannstrabe 15
85748 Garching – Munich, Germany
Email: cyron@lnm.mw.tum.de

2019

IUTAM-BICTAM Summer School on Violent Flows with a Free Surface

Place: Shanghai, China
Event dates: **2019, no exact dates available yet**
Coordinator: **Prof. H. Liu**
Shanghai Jiao Tong University
800 Dong Chuan road
200240 Shanghai, China
Email: hliu@sjtu.edu.cn

IUTAM Co-Sponsored Event

2017 **EUROMECH Nonlinear Oscillations Conference**

Place: Budapest, Hungary
Date: June 25 – June 30, 2017
Coordinator: **Prof. Gabor Stepan**
 Email: stepan@mm.bme.hu

2018 **International Conference on Multibody System Dynamics**

Place: Lisbon, Portugal
Date: June 24 – June 28, 2018
Coordinator: **Prof. Jorge Ambrosio**
 Email: jorge.ambrosio@tecnico.ulisboa.pt

2018 **Asian Conference on Multibody System Dynamics**

Place: Xi'an, China
Date: August 27 – August 29, 2018
Coordinator: **Prof. Hao Wang**
 Email: wanghao@sjtu.edu.cn

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

IUTAM Home Page:

<http://www.iutam.net>

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