



# NEWSLETTER

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**IUTAM Home Page:**

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

**International Union of Theoretical and Applied Mechanics**

**N-2017-2**

**December 2017**

## President's Address

It has been a pleasure to serve as President of IUTAM for a little more than one year now. During that time, mostly through numerous email exchanges as well as during our enjoyable and productive meeting in Milan on June 9-12, 2017, the Bureau and the Executive Committee of the Congress Committee (XCCC) have been working hard on various matters. We have also remained fully committed to IUTAM's mission of international scientific cooperation and the promotion of the field of mechanics — in all of its traditional branches and the myriad of new developments — around the world and to a broad diverse group of scientists.

Thanks to the dedication of Alberto Corigliano, President of ICTAM 2020, his local Organizing Committee and the XCCC, the organization of ICTAM 2020 is progressing very nicely and will take place in Milan on August, 23-28, 2020. Please take a few minutes to check Alberto's warm welcome message at the Congress webpage at <http://www.ictam2020.org/> and mark your calendar if you have not done so yet.

I am pleased to report that there has been other exciting progress. First, I am grateful to Elsevier who, as you know, has been sponsoring the Rodney Hill Prize in Solid Mechanics since its establishment in 2008 and has recently documented its desire to sponsor two additional prizes to be awarded at ICTAM 2020 in Milan and ICTAM 2024. I am also delighted to report that a new publishing agreement for the IUTAM Book Series with Springer has been finalized, effective January 1, 2018.

During the meeting in Milan, it was decided that the next IUTAM General Assembly and associated meetings will take place in Boston, Massachusetts on July 22-25, 2018. The event website is <https://www.northeastern.edu/iutam2018/>. While I am excited to host you in my home city, please be aware that Boston is a busy place in the summer. For that reason, I would like to recommend that you finalize your travel plans and hotel reservation as soon as you can. I very much look forward to working with all of you during these few days at such an exciting time for IUTAM and the field of mechanics.

Finally, I would like to share that I had the privilege, on behalf of IUTAM, to attend the 32<sup>nd</sup> General Assembly of International Council for Science (ICSU)

in Taipei, Taiwan on October 23-26, 2017. Such assemblies take place once every three years. IUTAM is a member of ICSU, which is one of the oldest non-governmental organizations in the world, and was founded in 1931 to promote international scientific activity from the various branches of science for the benefit of society. Today, ICSU's membership consists of 122 National Members, mostly National Academies of Science, and 31 International Scientific Unions for a total of 153 members. This was a historical meeting as ICSU (International Council for Science) and ISSC (International Social Science Council), after much thought and discussion (prior to and during the GA), decided to merge. 97,6% of the ICSU membership and 90% of the ISSC membership voted in favor of the merger. It was also decided that the name of the new organization will be "International Science Council" and that the first meeting of ISC will take place in Paris next year. Before that, there will be an ICSU electronic GA on May 11-16, 2018, regarding the legal implementation of the ICSU-ISSC Merger Agreement where a lot of details will be finalized.

This past year working with all of you has been a real pleasure. I greatly appreciate your ongoing support and commitment to IUTAM, and am excited for the great work we will continue to accomplish together in the year ahead.

Wishing you all a very joyous holiday season, and much happiness and success in the New Year.

Nadine Aubry  
President of IUTAM  
Boston, MA

## From the Office of the Secretary-General

### *Call for proposals for IUTAM Symposia and Summer Schools 2020/2021:*

The call for proposals for IUTAM Symposia and IUTAM Summer Schools for the years 2020 and 2021 has been launched. The form for submitting proposals can be accessed [through the IUTAM website](#). The deadline for submissions is 31 March 2018.

### *Procedia IUTAM:*

The Procedia IUTAM series, launched in 2011, has now 25 volumes of Symposia proceedings. All papers are open access and are available on the website: <http://www.sciencedirect.com/science/journal/22109838>.

The Cooperation Agreement for Procedia IUTAM terminates on 31 December 2017.

### *IUTAM Bookseries with Springer:*

Starting from 2018, if the organizers of an IUTAM Symposium decide to publish proceedings, the recommended form of publication is the IUTAM Bookseries by Springer. Chairpersons of Symposia can contact the Secretary-General of IUTAM for the terms and conditions of publication in this series. Acceptable forms for proceedings are also special issues of high-quality journals or other forms previously approved by the Bureau of IUTAM.

Henryk Petryk  
Secretary-General of IUTAM  
Warsaw, Poland

## IUTAM Symposia 2018

### **18-1 = GA.16-09 IUTAM Symposium on Recent advances in moving boundary problems in mechanics**

Place: Christchurch, New Zealand  
Date: February 12 – February 15, 2018  
Chairman: **Dr. S. Gutschmidt**  
University of Canterbury  
Dept. of Mechanical Engineering  
Private Bag 4800  
8140 Christchurch, New Zealand  
Email: [stefanie.gutschmidt@canterbury.ac.nz](mailto:stefanie.gutschmidt@canterbury.ac.nz)  
Website: <http://iutam2018.nz>

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

### **18-2 = GA.16-05 IUTAM Symposium on Dynamics and stability of fluid interfaces**

Place: Gainesville, USA  
Date: April 2 – April 5, 2018  
Chairman: **Prof. R. Narayanan**  
University of Florida  
P.O. Box 116 005  
32611 Gainesville, USA  
Email: [ranga@ufl.edu](mailto:ranga@ufl.edu)

IUTAM Representative on Scientific Committee: Prof. N. Aubry

**18-3 = GA.16-02 IUTAM Symposium on Motile cells in complex environments**

Place: Udine, Italy  
Date: May 14 – May 18, 2018  
Chairman: **Prof. C. Marchioli**  
University of Udine  
Via delle Scienze 206, 33100 Udine, Italy  
Email: [marchioli@uniud.it](mailto:marchioli@uniud.it)

Co-Chairman: **Prof. E. Climent**  
Institut de Mécanique des Fluides de Toulouse  
1, Allée du Professeur Camille Soula  
31400 Toulouse, France  
Email: [ecliment@imft.fr](mailto:ecliment@imft.fr)

Website: <http://158.110.32.35/IUTAM2018>

IUTAM Representative on Scientific Committee: Prof. B. Schrefler

**18-4 = 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](mailto:joerg.fehr@itm.uni-stuttgart.de)

Co-Chairman: **Prof. B. Haasdonk**  
University of Stuttgart  
Institute of Applied Analysis and Numerical Simulation  
Pfaffenwaldring 57  
70569 Stuttgart, Germany  
Email: [haasdonk@mathematik.uni-stuttgart.de](mailto:haasdonk@mathematik.uni-stuttgart.de)

Website: [www.itm.uni-stuttgart.de/iutam2018](http://www.itm.uni-stuttgart.de/iutam2018)

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

**18-5 = GA.16-22 IUTAM Symposium on Size-effects in microstructure and damage evolution**

Place: Lyngby, Denmark  
Date: May 28 – June 3, 2018  
Chairman: **Prof. C. Niordson**  
Technical University of Denmark  
Nils Koppels Allé, building 404  
2800 Kgs. Lyngby, Denmark  
Email: [cn@mek.dtu.dk](mailto:cn@mek.dtu.dk)

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

**18-6 = GA.16-23 IUTAM Symposium on Acoustic/elastic metamaterials, their design and applications**

Place: Beijing, China  
Date: June 5 – June 9, 2018  
Chairman: **Prof. G. Hu**  
Beijing Institute of Technology  
5 South Zhongguanchun Street  
100081, Beijing, China  
Email: [hugeng@bit.edu.cn](mailto:hugeng@bit.edu.cn)  
Co-Chairman: **Prof. A. Norris**  
Rutgers University  
98 Brett Road  
Piscataway, NJ 08854-8058, USA  
Email: [norris@rutgers.edu](mailto:norris@rutgers.edu)  
Website: <https://www.iutam-sam2018.com>

IUTAM Representative on Scientific Committee: Prof. W. Yang

**18-7 = 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](mailto:marianna.braza@imft.fr)  
Website: [www.smartwing.org/iutam](http://www.smartwing.org/iutam)

IUTAM Representative on Scientific Committee: Prof. B. Schrefler

**18-8 = GA.16-21 IUTAM Symposium on Mechanical environments of living cells**

Place: Xi'an, China  
Date: June 28 – June 30, 2018  
Chairman: **Prof. T.J. Lu**  
Xi'an Jiaotong University  
28 Xianning West Road  
710049 Xi'an, Shaanxi, China  
Email: [tjlu@xjtu.edu.cn](mailto:tjlu@xjtu.edu.cn)  
Co-Chairman: **Prof. G. Genin**  
Washington University in St. Louis  
Email: [genin@wustl.edu](mailto:genin@wustl.edu)  
Co-Chairman: **Prof. Feng Xu**  
Xi'an Jiaotong University  
Email: [fengxu@mail.xjtu.edu.cn](mailto:fengxu@mail.xjtu.edu.cn)

IUTAM Representative on Scientific Committee: Prof. N. Fleck



**18-9 = 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](mailto:ivanakov@uns.ac.rs)

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

Website: <http://enolides.ftn.uns.ac.rs>

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

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

Place: Moscow, Russia  
Date: August 20 – August 25, 2018  
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](mailto:manzh@inbox.ru)

Website: <http://ipmnet.ru/amt2018/>

IUTAM Representative on Scientific Committee: Prof. I. Goryacheva

**18-11 = GA.16-14 IUTAM Symposium on Mechanics of  
electro/magneto-active materials and structures**

Place: Beijing, China  
Date: August 26 – August 30, 2018  
Chairman: **Prof. D. Fang**  
University of Pekin  
Room 511, Mechanical Building  
5 Yiheyuan road, Haidan  
100871 Beijing, China  
Email: [fangdn@pku.edu.cn](mailto:fangdn@pku.edu.cn)  
Co-Chairman: **Prof. C. Lynch**  
University of California, Los Angeles  
46-147G Engineering IV  
420 Westwood Blvd  
Los Angeles, CA 90095, USA  
Email: [cslynch@seas.ucla.edu](mailto:cslynch@seas.ucla.edu)

IUTAM Representative on Scientific Committee: Prof. H. Gao

**18-12 = GA.16-08 IUTAM Symposium on Stochastic dynamical  
systems approaches to fluid flow transitions**

Place: Ithaca, New York, USA  
Date: September 12 – September 14, 2018  
Chairman: **Prof. H. Dijkstra**  
Utrecht University  
Dept. of Physics and Astronomy  
Princetonplein 5  
3584 CC Utrecht, The Netherlands  
Email: [had54@cornell.edu](mailto:had54@cornell.edu)

IUTAM Representative on Scientific Committee: Prof. N. Aubry

**18-13 = GA.16-16 IUTAM Symposium on Architected material mechanics**

Place: Chicago, USA  
Date: September 17 – September 19, 2018  
Chairman: **Prof. T. Siegmund**  
Purdue University  
School of Mechanical Engineering  
585 Purdue Mall  
47907 West Lafayette, USA  
Email: [siegmund@purdue.edu](mailto: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](mailto:francois.barthelat@mcgill.ca)  
Website: <https://engineering.purdue.edu/IUTAM2018AMS>

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

**18-14 = GA.16-18 IUTAM Symposium on When topology optimization meets additive manufacturing – theory and methods**

Place: Dalian, China  
Date: October 8 – October 12, 2018  
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](mailto:chenggd@dlut.edu.cn)

IUTAM Representative on Scientific Committee: Prof. N. Olhoff

**18-15 = GA.16-06 IUTAM Symposium on Dynamics of complex fluids and interfaces**

Place: Kanpur, India  
Date: December 17 – December 20, 2018  
Chairman: **Prof. I. Sharma**  
Indian Institute of Technology  
Dept. of Mechanical Engineering  
213B, Northern Laboratories I  
208016 Kanpur, India  
Email: [ishans@iitk.ac.in](mailto:ishans@iitk.ac.in)

IUTAM Representative on Scientific Committee: Prof. A. Freire

## IUTAM Symposia 2019

### **19-1 = GA.16-20 IUTAM Symposium on Phase transformation in shape memory materials: modeling and applications**

Place: Austin, USA  
Date: January 12 – January 17, 2019  
Chairman: **Prof. C. Landis**  
University of Texas  
210 East 24<sup>th</sup> street, 78712 Austin, Texas, USA  
Email: [landis@utexas.edu](mailto:landis@utexas.edu)

Co-Chairman: **Prof. S. Kyriakides**  
University of Texas  
210 East 24<sup>th</sup> street, 78712 Austin, Texas, USA  
Email: [skk@utexas.edu](mailto:skk@utexas.edu)

Co-Chairman: **Prof. D. Lagoudas**  
Texas A&M University  
3141 TAMU, College Station TX 77843-3141, USA  
Email: [lagoudas@aero.tamu.edu](mailto:lagoudas@aero.tamu.edu)

IUTAM Representative on Scientific Committee: Prof. H. Petryk

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

Place: Dublin, Ireland  
Date: June 10 – June 12, 2019  
Chairman: **Prof. L. O’Naraigh**  
University College Dublin  
Belfield  
D04 V1W8 Dublin, Ireland  
Email: [onaraigh@maths.ucd.ie](mailto: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: San Diego, USA  
Date: June 24 – June 28, 2019  
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](mailto: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, UK  
Date: September 16 – September 20, 2019  
Chairman: **Prof. G. McKinley**  
MIT  
Room 3-254  
77 Massachusetts Avenue  
MA 02139 Cambridge, USA  
Email: [gareth@mit.edu](mailto:gareth@mit.edu)  
Co-Chairman: **Prof. I. Wilson**  
University of Cambridge  
Cambridge, UK  
Email: [diw11@cam.ac.uk](mailto:diw11@cam.ac.uk)

IUTAM Representative on Scientific Committee: Prof. N. Aubry

**19-5 = 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](mailto:pjschmid@imperial.ac.uk)

IUTAM Representative on Scientific Committee: Prof. T. Pedley

**19-6 = 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](mailto:jukka.tuhkuri@aalto.fi)

IUTAM Representative on Scientific Committee: Prof. R. McMeeking

**19-7 = 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](mailto:conor.mccarthy@ul.ie)

IUTAM Representative on Scientific Committee: Prof. N. Fleck



## **IUTAM Summer Schools 2019**

**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](mailto:hliu@sjtu.edu.cn)

## IUTAM Endorsed Events 2018

### 2018 **International Conference on Vibration Measurements by Laser and Noncontact Techniques**

Place: Ancona, Italy  
Date: June 19 – June 22, 2018  
Chairman: **Prof. Enrico Primo Tomasini**  
Email: [e.p.tomasini@univpm.it](mailto:e.p.tomasini@univpm.it)  
Website: [http://www.aivela.org/13th\\_Conference/index.html](http://www.aivela.org/13th_Conference/index.html)

### 2018 **International Conference on Multibody System Dynamics**

Place: Lisbon, Portugal  
Date: June 24 – June 28, 2018  
Chairman: **Prof. Jorge Ambrosio**  
Email: [jorge.ambrosio@tecnico.ulisboa.pt](mailto:jorge.ambrosio@tecnico.ulisboa.pt)  
Website: <http://imsd2018.tecnico.ulisboa.pt>

### 2018 **World Congress of Biomechanics**

Place: Dublin, Ireland  
Date: July 8 – July 12, 2018  
Chairmen: **Prof. Daniel Kelly**  
Email: [kellyd9@tcd.ie](mailto:kellyd9@tcd.ie)  
**Prof. Fergal O'Brien**  
Email: [fjobrien@rcsi.ie](mailto:fjobrien@rcsi.ie)  
Website: <http://wcb2018.com>

**2018 Asian Conference on Multibody Dynamics**

Place: Xi'an, China  
Date: August 19 – August 23, 2018  
Chairman: **Prof. Hao Wang**  
Email: [wanghao@sjtu.edu.cn](mailto:wanghao@sjtu.edu.cn)  
Website: <http://acmd2018.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/>

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