



# NEWSLETTER

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**From the Office of the Secretary-General**

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**International Congress, XXV ICTAM, Milan 2021**

**IUTAM Home Page:**

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

**International Union of Theoretical and Applied Mechanics**

**N-2021-1**

**June 2021**

## President's Address

As the incoming President of IUTAM, I begin by wishing you and your family good health in this difficult period of covid pandemic. The past year has been challenging for all of us, as new ways of working have had to emerge. But thankfully, international communication has continued via emerging technologies. I recognise that meeting in the virtual world is not the same as meeting in-person, but hope that global vaccination will progress quickly and allow us to get back together again in the 3D world of physical reality. In my mind, there is no denying the fact that seeing our colleagues in-person is optimal, and I look forward to normality returning hopefully in the near-term. Despite these difficulties, solid and fluid mechanics continue to thrive, both as stand-alone, fundamental subjects and as the essential elements of many important, inter-disciplinary problems. Global challenges such as climate change and the invention of a sustainable infrastructure demand new mechanics; for example, the design, use and recycling of electric vehicles require our insights for success.

I want to begin by expressing my personal gratitude to Nadine Aubry (USA), the outgoing President; Peter Eberhard (Germany), the outgoing Treasurer; Viggo Tvergaard (Denmark), the outgoing vice-president; Bernhard Schrefler (Italy) the outgoing member of the Bureau; and to Bob McMeeking (USA), the outgoing Secretary of the Congress Committee (CC). Each of them have given freely their time and energies for the smooth running of IUTAM activities. At the August 2020 GA we elected and welcomed Dan Henningson (Sweden) as Treasurer; Detlef Lohse (The Netherlands), Kikuo Kishimoto (Japan) as incoming Bureau members; and Sanjay Mittal (India) as the incoming Secretary of the Congress Committee (CC).

I am much impressed by the resilience of IUTAM in the face of a global shutdown of travel. International seminar series have emerged as the norm, and ICTAM2020 has now evolved into ICTAM2020+1. President Alberto Corigliano and his colleagues are doing an excellent job in hosting this event, and we look forward to a highly successful congress. Having now had a year of practice in remote on-line meetings, it is fully anticipated that the IUTAM community will be able to participate in ICTAM2020+1 in a meaningful and useful manner. For up to the minute information, see <https://www.ictam2020.org/>. A more limited number of IUTAM Symposia

are also running in 2021. Several Symposia chairs have also decided to postpone Symposia until 2022 where delegates can meet in-person. I expect that there will be a flurry of excitement in our return to such in-person Symposia.

IUTAM has also been busy on the organisational front. The General Assembly (GA) had a successful online meeting on 25<sup>th</sup> and 26 August 2020. The GA decided to set up a Diversity Working Group and will receive its report at the next on-line GA as part of ICTAM2020+1. This group has worked hard and we are grateful to them, with Pilar Ariza (Spain) as chair and Djimedo Kondo (France) as secretary. Behind the scenes, the Bureau has been putting in time and energy into the registration process for IUTAM, so that IUTAM can be properly registered as a legal entity. This is needed in order to ensure that IUTAM continues to thrive as a global organisation to promote the interests of the mechanics community.

I end my address with an invitation to my mechanics colleagues as we move beyond this covid pandemic: if there are new ways that IUTAM can better function to serve the international mechanics community, please do write to me and to other serving members of the Bureau or General Assembly. We welcome any new ideas and initiatives for the continued success of IUTAM.

10 May 2020

Norman Fleck  
President of IUTAM  
Cambridge University, UK

## From the Office of the Secretary-General

### *IUTAM Report 2020*

The IUTAM Report 2020 is now available online:

<https://iutam.org/wp-content/uploads/2021/05/Annual-Report-2020.pdf> .

Printed versions are freely available upon request.

### *Postponement and change of format of IUTAM events due to COVID-19*

As the COVID-19 pandemic continues, the IUTAM activities in 2021 keep being affected by the uncertain worldwide situation. The 25<sup>th</sup> International Congress of Theoretical and Applied Mechanics, postponed to 22-27 August 2021 and renamed ICTAM 2020+1, will be held in a fully virtual format. Detailed information can be found [on the Congress website](#). No IUTAM Symposia or Summer Schools took place in 2020. One of those Symposia was cancelled, while seven others, the IUTAM-CISM Summer School and the IUTAM Special Event were postponed by their Chairs and local organizers to 2021 or 2022. In the time of the pandemic, organizers are free to choose an in-person, hybrid or fully virtual format for their Symposia. New dates and format, if available, are announced in the present IUTAM Newsletter. Please consult the IUTAM website for up-to-date information about all IUTAM events.

### *Symposia proceedings*

Since 2018, if the organizers of an IUTAM Symposium decide to publish proceedings, the recommended form of publication is the [IUTAM Bookseries](#) by Springer. This is an opportunity to leave a published legacy of a meeting, regardless of whether it is an in-person or a virtual event due to the pandemic. Six volumes (nos. 33–38) of the Series have already been published since 2018. One further volume has been contracted.

### *Registration of IUTAM*

The office of the Secretary-General and the Bureau of IUTAM continued their work on the registration of IUTAM in the Netherlands. To assure

compliance with the Dutch law, IUTAM's Statutes have been reviewed and several new clauses formulated, which are currently being consulted with Dutch lawyers.

***Meeting of the IUTAM General Assembly in 2021***

The General Assembly will have a virtual meeting by electronic means on Sunday, August 22, and on Wednesday, August 25, 2021 at ICTAM 2020+1.

***Call for proposals for IUTAM Symposia and Summer Schools 2024-2025***

The call for the next wave of IUTAM Symposia and Summer Schools will open online at the end of 2021. The deadline for submissions will be 31 March 2022.

June 2021

Henryk Petryk  
Secretary-General of IUTAM  
Warsaw, Poland

## IUTAM Symposia 2021

Due to the ongoing COVID-19 pandemic, the dates and venues of IUTAM Symposia may change. Please consult the IUTAM website for up-to-date information about all IUTAM events.

### **21-1 = GA.18-10 IUTAM Symposium on Mechanics of smart and tough gels**

Place: Austin, USA – online event

Date: May 24 – May 29, 2021

Co-Chair: **Prof. R. Huang**

University of Texas at Austin

210 E 24th Street, C0600

78712-1221 Austin, USA

Email: [ruihuang@mail.utexas.edu](mailto:ruihuang@mail.utexas.edu)

Co-Chair: **Prof. X. Zhao**

Massachusetts Institute of Technology

Boston, USA

Email: [zhaox@mit.edu](mailto:zhaox@mit.edu)

Website: <https://sites.utexas.edu/iutam2021>

IUTAM Representative on Scientific Committee: Prof. N.A. Fleck

### **21-2 = GA.18-06 IUTAM Symposium on Computational methods for large-scale and complex wave problems**

Place: Tokyo, Japan – online event

Date: June 25 – June 26 and July 2 – July 3, 2021

Chair: **Prof. K. Kishimoto**

Tokyo Institute of Technology

2-12-1 Oookayama, Meguro

152-8552 Tokyo, Japan

Email: [kkishimoto@ocean.zaq.jp](mailto:kkishimoto@ocean.zaq.jp)

Website: <http://www.solidmech.mech.e.titech.ac.jp/IUTAM2021/>

IUTAM Representative on Scientific Committee: Prof. N. Aubry

**21-3 = GA.18-11 IUTAM Symposium on Turbulent structure and particles-turbulence interaction**

Place: Lanzhou, China  
Date: July 2 – July 5, 2021  
Co-Chair: **Prof. X.J. Zheng**  
Xidian University  
710126 Xi'an, Shaanxi, China  
Email: [xjzheng@xidian.edu.cn](mailto:xjzheng@xidian.edu.cn)  
Co-Chair: **Prof. S. Balachandar**  
University of Florida  
Department of Mechanical & Aerospace Engineering  
231 MAE-A, P.O. Box 116250  
Gainesville, FL 32611, USA  
Email: [bala1s@ufl.edu](mailto:bala1s@ufl.edu)  
Website: <http://www.iutamlz.com/>

IUTAM Representative on Scientific Committee: Prof. H.K. Moffatt

**21-4 = GA.18-08 IUTAM Symposium on Generalized continua emerging from microstructures**

Place: Paris, France – hybrid event  
Date: July 19 – July 23, 2021  
Chair: **Prof. S. Forest**  
Mines ParisTech CNRS  
60 Boulevard Saint-Michel  
75006 Paris, France  
Email: [samuel.forest@mines-paristech.fr](mailto:samuel.forest@mines-paristech.fr)  
Website: <https://iutam-2021-gc.sciencesconf.org/>

IUTAM Representative on Scientific Committee: Prof. N.A. Fleck

**21-5 = GA.18-03 IUTAM Symposium on Dynamics and interface phenomena of bubbles and droplets at multiple scales**

Place: Tokyo, Japan  
Date: 2021, *no exact dates available yet.*  
Chair: **Prof. S. Takagi**  
The University of Tokyo  
7-3-1, Hongo, Bunkyo-ku  
113-8656 Tokyo, Japan  
Email: [takagi@mech.t.u-tokyo.ac.jp](mailto:takagi@mech.t.u-tokyo.ac.jp)

IUTAM Representative on Scientific Committee: Prof. A.P.S. Freire

**21-6 = GA.18-13 IUTAM Symposium on Optimal guidance and control for autonomous systems**

Place: Honolulu, USA  
Date: 2021, *no exact dates available yet.*  
Chair: **Prof. D. Azimov**  
University of Hawai'i at Manoa  
2540 Dole Street, Holmes 202  
96822 Honolulu, USA  
Email: [azimov@hawaii.edu](mailto:azimov@hawaii.edu)  
Website: <https://manoa.hawaii.edu/ISOGCAS2020/>

IUTAM Representative on Scientific Committee: Prof. P. Eberhard



**21-7 = GA.18-14 IUTAM Symposium on Multiphysics analysis of wave propagation in electronic device structures**

Place: Ningbo, China  
Date: 2021, *no exact dates available yet.*  
Chair: **Prof. J. Wang**  
Ningbo University  
School of Mechanical Engineering and Mechanics  
818 Fenghua Road  
315211 Ningbo, China  
Email: [wangji@nbu.edu.cn](mailto:wangji@nbu.edu.cn)

IUTAM Representative on Scientific Committee: Prof. H. Gao

**21-8 = GA.18-15 IUTAM Symposium on Mechanics of liquid crystal elastomers**

Place: Houston, USA  
Date: 2021, *no exact dates available yet.*  
Chair: **Prof. P. Sharma**  
University of Houston  
N207 Engineering Building 1  
77204-4503 Houston, USA  
Email: [psharma@Central.UH.EDU](mailto:psharma@Central.UH.EDU)

IUTAM Representative on Scientific Committee: Prof. B.A. Schrefler

## IUTAM Special Event 2021

### **21-S = GA.18-04 Fluid mechanics in the spirit of G. K. Batchelor**

Place: Cambridge, UK – online event

Date: March 29 – March 31, 2021

Chair: **Prof. P.F. Linden**

University of Cambridge

DAMTP

Centre for Mathematical Sciences

Wilberforce Road

CB3 0WA Cambridge, UK

Email: [pfl4@cam.ac.uk](mailto:pfl4@cam.ac.uk)

Website: <http://www.damtp.cam.ac.uk/events/batchelorcentenary/>

IUTAM Representative on Scientific Committee: Prof. T.J. Pedley

## IUTAM Symposia 2022

### **22-1 = GA.20-08 IUTAM Symposium on Soft matter mechanics**

Place: Hangzhou, China  
Date: April 28 – April 30, 2022  
Chair: **Prof. Y. Huang**  
Northwestern University  
Evanston, USA  
Email: [y-huang@northwestern.edu](mailto:y-huang@northwestern.edu)

IUTAM Representative on Scientific Committee: Prof. H. Gao

### **22-2 = GA.18-07 IUTAM Symposium on Ultralarge-scale topology optimization**

Place: Kongens Lyngby, Denmark  
Date: May 15 – May 18, 2022  
Chair: **Prof. O. Sigmund**  
Technical University of Denmark  
Nils Koppels Allé, building 404  
2800 Kongens Lyngby, Denmark  
Email: [sigmund@mek.dtu.dk](mailto:sigmund@mek.dtu.dk)  
Website: <https://www.conferencemanager.dk/iutam2022>

IUTAM Representative on Scientific Committee: Prof. V. Tvergaard

**22-3 = GA.20-10 IUTAM Symposium on Enhancing material performance by exploiting instabilities and damage evolution**

Place: Warsaw, Poland  
Date: June 5 – June 10, 2022  
Chair: **Prof. K. Kowalczyk-Gajewska**  
Institute of Fundamental Technological Research  
Polish Academy of Sciences  
Pawinskiego 5B  
02-106 Warsaw, Poland  
Email: [kkowalcz@ippt.pan.pl](mailto:kkowalcz@ippt.pan.pl)  
Co-Chair: **Prof. A. Srivastava**  
Texas A&M University  
College Station, USA  
Email: [ankit.sri@tamu.edu](mailto:ankit.sri@tamu.edu)  
Website: <http://iutam2022warsaw.ippt.pan.pl/>

IUTAM Representative on Scientific Committee: Prof. H. Petryk

**22-4 = GA.20-04 IUTAM Symposium on Data-driven nonlinear and stochastic dynamics with the control**

Place: Xi'an, China  
Date: June 6 – June 10, 2022  
Co-Chair: **Prof. Y. Xu**  
Northwestern Polytechnical University  
School of Mathematics and Statistics  
127 West Youyi Road  
710072 Xi'an Shaanxi, China  
Email: [hsux3@nwpu.edu.cn](mailto:hsux3@nwpu.edu.cn)  
Co-Chair: **Prof. J. Kurths**  
Humboldt-University Berlin  
Institute of Physics  
Berlin, Germany  
Email: [juergen.kurths@pik-potsdam.de](mailto:juergen.kurths@pik-potsdam.de)  
Website: <http://www.iutam2022-xian.com>

IUTAM Representative on Scientific Committee: Prof. G. Stépán

**22-5 = GA.20-02 IUTAM Symposium on Data-driven modeling and optimization in fluid mechanics**

Place: Aarhus, Denmark  
Date: June 15 – June 17, 2022  
Chair: **Prof. J.N. Sørensen**  
Technical University of Denmark (DTU)  
Lyngby, Denmark  
Email: [jnso@dtu.dk](mailto:jnso@dtu.dk)

Co-Chair: **Prof. M. Abkar**  
Aarhus University  
Aarhus C, Denmark  
Email: [abkar@mpe.au.dk](mailto:abkar@mpe.au.dk)

IUTAM Representative on Scientific Committee: Prof. D. Henningson

**22-6 = GA.20-07 IUTAM Symposium on Multiscale architecting of microstructures of solids: mechanics and manufacture**

Place: Beijing, China  
Date: June 26 – June 28, 2022  
Chair: **Prof. Y. Wei**  
Institute of Mechanics  
Chinese Academy of Sciences  
Bei Si Huan Xi Rd #15, Zhongguancun  
100190 Beijing, China  
Email: [yujie\\_wei@lnm.imech.ac.cn](mailto:yujie_wei@lnm.imech.ac.cn)

Website: <http://iutam2022-mams-mm.csp.escience.cn/>

IUTAM Representative on Scientific Committee: Prof. N.A. Fleck

**22-7 = GA.18-02 IUTAM Symposium on Interface mechanics of complex flows and soft matter**

Place: Beijing, China  
Date: June 29 – July 2, 2022  
Co-Chair: **Prof. H. Duan**  
Peking University  
Department of Mechanics and Engineering Science  
No.5 Yiheyuan Road, Haidian District  
100871 Beijing, China  
Email: [hlduan@pku.edu.cn](mailto:hlduan@pku.edu.cn)

Co-Chair: **Prof. C. Sun**  
Tsinghua University  
Beijing, China  
Email: [chaosun@tsinghua.edu.cn](mailto:chaosun@tsinghua.edu.cn)

Website: <http://iutam2020.pku.edu.cn>

IUTAM Representative on Scientific Committee: Prof. G. McKinley

**22-8 = GA.20-13 IUTAM Symposium on Optimal design and control of multibody systems – adjoint methods, alternatives, and beyond**

Place: Hamburg, Germany  
Date: July 18 – July 21, 2022  
Chair: **Prof. A. Held**  
Hamburg University of Technology (TUHH)  
Institute of Mechanics and Ocean Engineering  
Eißendorfer Straße 42  
21073 Hamburg, Germany  
Email: [alexander.held@tuhh.de](mailto:alexander.held@tuhh.de)

Website: <https://www.tuhh.de/alt/mum/iutam-symposium-2022.html>

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

**22-9 = GA.20-01 IUTAM Symposium “From Stokesian suspension dynamics to particulate flows in turbulence”**

Place: Toulouse, France  
Date: August 30 – September 2, 2022  
Chair: **Prof. M. Maxey**  
Brown University  
Providence, USA  
Email: [martin\\_maxey@brown.edu](mailto:martin_maxey@brown.edu)

IUTAM Representative on Scientific Committee: Prof. D. Lohse

**22-10 = GA.20-03 IUTAM Symposium on Turbulent/non-turbulent interface in turbulent shear flow**

Place: Beijing, China  
Date: October 17 – October 19, 2022  
Chair: **Prof. J. Wang**  
Beihang University  
Key Laboratory of Fluid Mechanics of Ministry of Education of China  
37 Xueyuan Road, Haidian District  
100191 Beijing, China  
Email: [jjwang@buaa.edu.cn](mailto:jjwang@buaa.edu.cn)

IUTAM Representative on Scientific Committee: Prof. A.P.S. Freire

**22-11 = GA.18-12 IUTAM Symposium on Data-driven mechanics**

Place: Paris, France  
Date: October 26 – October 28, 2022  
Chair: **Prof. F. Chinesta**  
Arts et Metiers  
151 Boulevard de l'Hopital  
75013 Paris, France  
Email: [Francisco.Chinesta@ensam.eu](mailto:Francisco.Chinesta@ensam.eu)

IUTAM Representative on Scientific Committee: Prof. N.A. Fleck

**22-12 = GA.18-01 IUTAM Symposium on Particles, drops and bubbles in stratified environments**

Place: Toulouse, France  
Date: 2022, *no exact dates available yet.*  
Chair: **Prof. J. Magnaudet**  
CNRS & Toulouse University  
Institut de Mécanique des Fluides de Toulouse  
Allée Camille Soula  
31400 Toulouse, France  
Email: [magnau@imft.fr](mailto:magnau@imft.fr)  
Website: <https://iutam-imft-2020.sciencesconf.org/>

IUTAM Representative on Scientific Committee: Prof. A.P.S. Freire



## IUTAM Symposia 2023

### **23-1 = GA.20-12 IUTAM Symposium on Creep in structures**

Place: Magdeburg, Germany  
Date: September 18 – September 22, 2023  
Chair: **Prof. H. Altenbach**  
Otto-von-Guericke-Universitaet Magdeburg  
Institute for Mechanics  
Universitaetsplatz 2  
39106 Magdeburg, Germany  
Email: [holm.altenbach@ovgu.de](mailto:holm.altenbach@ovgu.de)

IUTAM Representative on Scientific Committee: Prof. B.A. Schrefler

### **23-2 = GA.20-05 IUTAM Symposium on Dynamics of capsules, vesicles and cells in flow**

Place: Compiègne, France  
Date: 2023, *no exact dates available yet.*  
Chair: **Prof. A.-V. Salsac**  
Université de Technologie de Compiègne  
Biomechanics and Bioengineering Laboratory  
CS 60319  
60203 Compiègne, France  
Email: [a.salsac@utc.fr](mailto:a.salsac@utc.fr)

IUTAM Representative on Scientific Committee: Prof. T.J. Pedley

**23-3 = GA.20-06 IUTAM Symposium on Interfacial effects, gels and cells**

Place: Limerick, Ireland  
Date: 2023, *no exact dates available yet.*  
Chair: **Prof. J. Huyghe**  
University of Limerick  
Bernal Institute  
AD3.020 Analog Devices building  
Plassey Park Road  
IE Limerick, Ireland  
Email: [jacques.huyghe@ul.ie](mailto:jacques.huyghe@ul.ie)

IUTAM Representative on Scientific Committee: Prof. F. Dias

**23-4 = GA.20-09 IUTAM Symposium on Mechanics of advanced materials and structures with multifield couplings**

Place: Nanjing, China  
Date: 2023, *no exact dates available yet.*  
Chair: **Prof. J.N. Reddy**  
Texas A&M University  
Colleague Station, USA  
Email: [jnreddy@tamu.edu](mailto:jnreddy@tamu.edu)

IUTAM Representative on Scientific Committee: Prof. I.G. Goryacheva

**23-5 = GA.20-11 IUTAM Symposium on Nonlinear dynamics for design of mechanical systems across different length/time scales**

Place: Tsukuba, Japan  
Date: 2023, *no exact dates available yet.*  
Chair: **Prof. H. Yabuno**  
University of Tsukuba  
1-1-1 Ten-no-dai  
305-8573 Tsukuba, Japan  
Email: [yabuno@esys.tsukuba.ac.jp](mailto:yabuno@esys.tsukuba.ac.jp)

IUTAM Representative on Scientific Committee: Prof. G. Rega

## IUTAM Summer Schools 2022

2022

### IUTAM-CISM Summer School on Instability and bifurcation of solids including coupled field phenomena

Place:

Udine, Italy

Event dates:

2022, *no exact dates available yet.*

Coordinators:

**Prof. R. Ogden**

University of Glasgow

School of Mathematics and Statistics

University Place

G12 8SQ Glasgow, UK

Email: [Raymond.Ogden@glasgow.ac.uk](mailto:Raymond.Ogden@glasgow.ac.uk)

**Prof. L. Dorfmann**

Tufts University

Department of Civil and Environmental Engineering

200 College Avenue

Medford, MA 02155, USA

Email: [Luis.Dorfmann@tufts.edu](mailto:Luis.Dorfmann@tufts.edu)

Website:

<https://www.cism.it/en/activities/courses/C2109/>

2022

### IUTAM-CISM Summer School on Sports physics and technology

Place:

Udine, Italy

Event dates:

2022, *no exact dates available yet.*

Coordinators:

**Prof. A. Hosoi**

Massachusetts Institute of Technology

Department of Mechanical Engineering

77 Massachusetts Avenue

Massachusetts 02139, Cambridge, USA

Email: [peko@MIT.EDU](mailto:peko@MIT.EDU)

**Prof. C. Clanet**

LadHyX, Ecole Polytechnique

Palaiseau, France

Email: [clanet@ladhyx.polytechnique.fr](mailto:clanet@ladhyx.polytechnique.fr)

**2022****IUTAM-CISM Summer School on Convection and deformation in porous media: geophysical and biological flows**

Place: Udine, Italy

Event dates: 2022, *no exact dates available yet.*Coordinators: **Prof. C. MacMinn**

University of Oxford

Department of Engineering Science

Parks Road

OX1 3PJ Oxford, UK

Email: [christopher.macminn@eng.ox.ac.uk](mailto:christopher.macminn@eng.ox.ac.uk)**Prof. M. De Paoli**

TU Wien

Institute of Fluid Mechanics and Heat Transfer

Wien, Austria

Email: [marco.de.paoli@tuwien.ac.at](mailto:marco.de.paoli@tuwien.ac.at)

## IUTAM Endorsed Events 2021 and 2022

### 2021 **1st BICTAM-CISM Symposium on Dispersed Multiphase Flows: from Measuring to Modeling**

Place: Online event  
Date: March 2 – March 5, 2021  
Co-Chair: **Prof. Jiachun Li**  
Email: [jcli05@imech.ac.cn](mailto:jcli05@imech.ac.cn)  
Co-Chair: **Prof. Cristian Marchioli**  
Email: [cristian.marchioli@uniud.it](mailto:cristian.marchioli@uniud.it)  
Website: <http://158.110.32.35/BICTAM-CISM>

### 2021 **International Symposium on Co-Simulation and Solver Coupling in Dynamics**

Place: Online event  
Date: May 24 – May 25, 2021  
Co-Chair: **Dr. Francisco J. González**  
Email: [f.gonzalez@udc.es](mailto:f.gonzalez@udc.es)  
Co-Chair: **Prof. Javier Cuadrado**  
Email: [javier.cuadrado@udc.es](mailto:javier.cuadrado@udc.es)  
Website: <http://lim.ii.udc.es/events/cosim2020>

### 2021 **InterPore2021 Conference**

Place: Online event  
Date: May 31 – June 4, 2021  
Chair: **Prof. Oleg Iliev**  
Email: [oleg.iliev@itwm.fraunhofer.de](mailto:oleg.iliev@itwm.fraunhofer.de)  
Website: <https://www.interpore.org/2021>

**2021**                    **1st IACM Conference on Mechanistic Machine Learning and Digital Twins for Computational Science, Engineering & Technology**

Place: San Diego, California, USA  
Date: September 26 – September 29, 2021  
Co-Chair: **Prof. Wing Kam Liu**  
Email: [w-liu@northwestern.edu](mailto:w-liu@northwestern.edu)  
Co-Chair: **Prof. J. S. Chen**  
Email: [js-chen@ucsd.edu](mailto:js-chen@ucsd.edu)  
Co-Chair: **Prof. Charbel Farhat**  
Email: [cfarhat@stanford.edu](mailto:cfarhat@stanford.edu)  
Co-Chair: **Prof. Francisco Chinesta**  
Email: [Francisco.Chinesta@ensam.eu](mailto:Francisco.Chinesta@ensam.eu)  
Co-Chair: **Prof. George Karniadakis**  
Email: [George\\_Karniadakis@brown.edu](mailto:George_Karniadakis@brown.edu)  
Co-Chair: **Prof. WaiChing Sun**  
Email: [wsun@columbia.edu](mailto:wsun@columbia.edu)  
Website: <https://sites.google.com/eng.ucsd.edu/iacm-mltd-cse>

**2022**                    **International Conference on Nonlinear Solid Mechanics**

Place: Alghero, Sardinia, Italy  
Date: June 13 – June 16, 2022  
Co-Chair: **Prof. Marco Amabili**  
Email: [marco.amabili@mcgill.ca](mailto:marco.amabili@mcgill.ca)  
Co-Chair: **Prof. Francesco dell'Isola**  
Email: [francesco.dellisola.aquila@gmail.com](mailto:francesco.dellisola.aquila@gmail.com)  
Website: <http://www.memocsevents.eu/iconsom2022/>

**2022                    1st International Conference on Mechanics for Global Challenges**

Place:                    Singapore  
Date:                    June 19 – June 24, 2022  
Chair:                    **Prof. Huajian Gao**  
                              Email: [huajian.gao@ntu.edu.sg](mailto:huajian.gao@ntu.edu.sg)  
Website:                <https://icmgc.org/>

**2022                    6th Joint International Conference on Multibody System Dynamics and 10th Asian Conference on Multibody Dynamics**

Place:                    New Delhi, India  
Date:                    October 16 – October 20, 2022  
Chair:                    **Prof. Subir Kumar Saha**  
                              Email: [saha@mech.iitd.ac.in](mailto:saha@mech.iitd.ac.in)  
Co-Chair:              **Prof. Rama Krishna K**  
                              Email: [rkk@mech.iitd.ac.in](mailto:rkk@mech.iitd.ac.in)  
Website:                <http://imsdacmd2020.iitd.ac.in/>

*ANNOUNCEMENT from the Committee on Space Research (COSPAR), an affiliated body of the International Science Council (ISC):*

**2022                    44th Scientific Assembly of the Committee on Space Research (COSPAR) and Associated Events “COSPAR 2022”**

Place:                    Athens, Greece  
Date:                    July 16 – July 24, 2022  
Contact:                [cospar@cosparhq.cnes.fr](mailto:cospar@cosparhq.cnes.fr)  
                              <https://www.cospar-assembly.org>

Abstract Deadline: Mid-February 2022



**Topics:**

Approximately 140 meetings covering the fields of COSPAR Scientific Commissions (SC) and Panels – details available on the website

<https://www.cospar-assembly.org> .

Selected papers published in Advances in Space Research and Life Sciences in Space Research, fully refereed journals with no deadlines open to all submissions in relevant fields.

**XXV International Congress  
of Theoretical and Applied Mechanics  
22-27 August 2021, virtual congress  
ICTAM 2020+1**

The International Congresses of 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.

**Due to the COVID-19 pandemic, the Congress has been postponed by President Alberto Corigliano and his local organizing committee to 22-27 August 2021 and will be fully virtual. For current information see the ICTAM home page, <https://www.ictam2020.org/> .**

***Opening and Closing Lecturers***

*Opening Lecturer:* Professor Nicola Pugno (Italy)

*Closing Lecturer:* Professor Elisabeth Guazzelli (France)

***Sectional Lecturers***

Bala Balachandran (USA)  
Alessandro Bottaro (Italy)  
Vikram Deshpande (UK)  
Antonio De Simone (Italy)  
Frederic Dias (Ireland)  
Xi-Qiao Feng (China)  
Genta Kawahara (Japan)  
Ellen Kuhl (USA)  
Eric Lauga (UK)  
Jean-Baptiste Leblond (France)  
Christian Niordson (Denmark)  
Clarence Rowley (USA)  
Miles Rubin (Israel)  
Cameron Tropea (Germany)  
Roberto Verzicco (Italy)  
Emmanuel Villermaux (France)

***Minisymposia******Modeling and Controlling Turbulent Shear Flows***

Co-Chairs                      Professor Ivan Marusic (Australia)  
   Professor Beverley McKeon (USA)

***Local Mechanics of Climate Processes***

Co-Chairs                      Professor Eberhard Bodenschatz (Germany)  
   Professor John Wettlaufer (USA)

***Biological Fluid-Structure Interaction at the Microscale***

Co-Chairs                      Professor Prosenjit Bagchi (USA)  
   Professor Anne-Virginie Salsac (France)

***Nonlinear Dynamics for Design***

Co-Chairs                      Professor Remco Leine (Germany)  
   Professor Stefano Lenci (Italy)

***Mechanics of Additive Manufacturing***

Co-Chairs                      Professor Ferdinando Auricchio (Italy)  
   Professor Matthew Begley (USA)

***Mechanics of C-Allotropic Materials and Structures***

Co-Chairs                      Professor Julia Greer (USA)  
   Professor Roberto Paroni (Italy)

***Thematic Sessions******Fluids Topics***

FM01 Biological Fluid Mechanics  
FM02 Boundary Layers  
FM03 Combustion and Flames  
FM04 Compressible Flows  
FM05 Convection  
FM06 Drops, Bubbles and Interfaces  
FM07 Multiphase and Particle-Laden Flows  
FM08 Flow Instability and Transition  
FM09 Thin Film Flows

FM10 Geophysical and Environmental Fluid Dynamics

FM11 Low-Reynolds-Number Flows and Suspensions

FM12 Micro- and Nano-Fluidics

FM13 Non-Newtonian and Complex Fluids

FM14 Computational Fluid Dynamics

FM15 Turbulence

FM16 Vortex Dynamics

FM17 Waves in Fluids

FM18 Electro- and Magneto- Hydrodynamics

FM19 Other Topics in Fluid Mechanics

### *Solids Topics*

SM01 Biomechanics and Biomaterials

SM02 Tribology - Contact and Friction

SM03 Damage Mechanics

SM04 Elasticity

SM05 Fracture Mechanics

SM06 Geophysics and Geomechanics

SM07 Impact Mechanics and Wave Propagation

SM08 Multi-component, Composite and Hierarchical Materials

SM09 Phase Transformations and Thermomechanical Phenomena

SM10 Scalescale Effects in Materials

SM11 Multibody and Vehicle Dynamics

SM12 Nanostructures and MEMS

SM13 Plasticity, Viscoplasticity and Creep

SM14 Stability and Instability of Materials and Structures

SM15 Computational Solid Mechanics

SM16 Vibrations and Control of Structures

SM17 Soft Materials and Extremely Deformable Structures

SM18 Metamaterials

SM19 Other Topics in Solid Mechanics

### *Solids/Fluids Topics*

FS01 Acoustics

FS02 Exascale Computing

FS03 Experimental Methods in Mechanics

FS04 Nonlinear Dynamics and Pattern Formation

FS05 Porous Media

FS06 Fluid Structure Interactions

FS07 Smart Actuating Systems

FS08 Granular Materials and Flows

FS09 Foams and Cellular Materials

FS10 Optimization for Solids and Fluids

FS11 Inverse Problems in Solids and Fluids

FS12 Education in Mechanics

## **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 2018, if the organizers of an IUTAM Symposium decide to publish proceedings, the recommended route 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.

**IUTAM is a member of ISC**  
<https://council.science>

## **Notice on availability of IUTAM Newsletter**

The IUTAM Newsletter is available online:  
<https://iutam.org/publications/newsletters>

**IUTAM Home Page:**

<https://www.iutam.org>

or <https://www.iutam.net>