President’s Address
From the Office of the Secretary-General
IUTAM Symposia 2021, 2022 and 2023
IUTAM Special Event 2021
IUTAM Summer Schools 2022
IUTAM Endorsed Events 2021 and 2022
International Congress, XXV ICTAM, Milan 2021

IUTAM Home Page:

https://www.iutam.org
or https://www.iutam.net
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\textsuperscript{th} 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:


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 25th 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

Co-Chair: Prof. X. Zhao
Massachusetts Institute of Technology
Boston, USA
Email: 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

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
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
Website: http://www.iutamlzu.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
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

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
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

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

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

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

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
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

Co-Chair: Prof. A. Srivastava
Texas A&M University
College Station, USA
Email: 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

Co-Chair: Prof. J. Kurths
Humboldt-University Berlin
Institute of Physics
Berlin, Germany
Email: juergen.kurths@pik-potsdam.de

Website: http://www.iutam2022-xian.com

IUTAM Representative on Scientific Committee: Prof. G. Stépán
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

Co-Chair: Prof. M. Abkar
Aarhus University
Aarhus C, Denmark
Email: abkar@mpe.au.dk

IUTAM Representative on Scientific Committee: Prof. D. Henningson

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
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

Co-Chair: **Prof. C. Sun**  
Tsinghua University  
Beijing, China  
Email: chaosun@tsinghua.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


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

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

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

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

Website:  
https://iutam-imft-2020.sciencesconf.org/

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

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

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

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

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  
Collegue Station, USA  
Email: inreddy@tamu.edu

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

IUTAM Representative on Scientific Committee: Prof. G. Rega
### IUTAM Summer Schools 2022

<table>
<thead>
<tr>
<th>Year</th>
<th>Title</th>
<th>Place</th>
<th>Event dates</th>
<th>Coordinators</th>
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<tr>
<td>2022</td>
<td>IUTAM-CISM Summer School on Instability and bifurcation of solids including coupled field phenomena</td>
<td>Udine, Italy</td>
<td>2022, no exact dates available yet.</td>
<td><strong>Prof. R. Ogden</strong>&lt;br&gt;University of Glasgow&lt;br&gt;School of Mathematics and Statistics&lt;br&gt;University Place&lt;br&gt;G12 8SQ Glasgow, UK&lt;br&gt;Email: <a href="mailto:Raymond.Ogden@glasgow.ac.uk">Raymond.Ogden@glasgow.ac.uk</a>&lt;br&gt;&lt;br&gt;<strong>Prof. L. Dorfmann</strong>&lt;br&gt;Tufts University&lt;br&gt;Department of Civil and Environmental Engineering&lt;br&gt;200 College Avenue&lt;br&gt;Medford, MA 02155, USA&lt;br&gt;Email: <a href="mailto:Luis.Dorfmann@tufts.edu">Luis.Dorfmann@tufts.edu</a></td>
<td><a href="https://www.cism.it/en/activities/courses/C2109/">https://www.cism.it/en/activities/courses/C2109/</a></td>
</tr>
<tr>
<td>2022</td>
<td>IUTAM-CISM Summer School on Sports physics and technology</td>
<td>Udine, Italy</td>
<td>2022, no exact dates available yet.</td>
<td><strong>Prof. A. Hosoi</strong>&lt;br&gt;Massachusetts Institute of Technology&lt;br&gt;Department of Mechanical Engineering&lt;br&gt;77 Massachusetts Avenue&lt;br&gt;Massachusetts 02139, Cambridge, USA&lt;br&gt;Email: <a href="mailto:peko@MIT.EDU">peko@MIT.EDU</a>&lt;br&gt;&lt;br&gt;<strong>Prof. C. Clanet</strong>&lt;br&gt;LadHyX, Ecole Polytechnique&lt;br&gt;Palaiseau, France&lt;br&gt;Email: <a href="mailto:clanet@ladhyx.polytechnique.fr">clanet@ladhyx.polytechnique.fr</a></td>
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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

**Prof. M. De Paoli**
TU Wien  
Institute of Fluid Mechanics and Heat Transfer  
Wien, Austria  
Email: 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
Co-Chair: Prof. Cristian Marchioli
   Email: 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
Co-Chair: Prof. Javier Cuadrado
   Email: 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
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
Co-Chair: Prof. J. S. Chen  
Email: js-chen@ucsd.edu
Co-Chair: Prof. Charbel Farhat  
Email: cfarhat@stanford.edu
Co-Chair: Prof. Francisco Chinesta  
Email: Francisco.Chiesta@ensam.eu
Co-Chair: Prof. George Karniadakis  
Email: George_Karniadakis@brown.edu
Co-Chair: Prof. WaiChing Sun  
Email: wsun@columbia.edu
Website: https://sites.google.com/eng.ucsd.edu/iacm-mldt-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
Co-Chair: Prof. Francesco dell’Isola  
Email: 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
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
Co-Chair: Prof. Rama Krishna K
Email: 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
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 Sizescale 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
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