



NEWSLETTER



President's Address
From the Office of the Secretary-General
IUTAM Symposia 2022 and 2023
IUTAM Summer Schools 2022
IUTAM Endorsed Events 2022

IUTAM Home Page:

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

President's Address

IUTAM finds itself at a cross-roads. As we emerge from the covid pandemic, there are challenges on a global scale that need to be faced. The challenge for mechanics is to remain a vibrant and important subject by linking up with new sciences and new activities. At its next Congress, ICTAM 2024, IUTAM celebrates 100 years of existence since the First International Congress of Applied Mechanics in Delft in 1924. This was the first congress where 207 Scientists from both solid and fluid mechanics got together and nucleated both ICTAM and IUTAM as we know them today. The press release for this congress included the paragraph: *This congress, therefore, has more than the usual meaning. So far as it demonstrates the flowering of applied mechanics, it demonstrates this postwar period. So far as the most prominent scientists show the many-sidedness of the problems and some of their solutions, it helps in strengthening the old tie between theoretical and applied mechanics. So far as it is the first really international congress in the exact sciences since 1914, it may help in removing the alienation between the researchers of different countries, who – despite everything – have never been able to do without each other.*

These words could have been written in 2022 instead of 1924. IUTAM remains the flagship for a healthy mix of theoretical and applied. Diversity of country and race continue to be central to the successful functioning of IUTAM. But we must continue to embrace Diversity in broader ways including age and gender. I am optimistic that IUTAM has a bright and vibrant future, as evidenced by the large number of symposia and summer schools that are on offer. It has had a fine tradition over its first century, and has the potential to promote mechanics both as a scientific discipline and as way of making the world a better place.

May 2022

Norman Fleck
President of IUTAM
Cambridge, UK

From the Office of the Secretary-General

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

The IUTAM activities in 2022 are still seeing the effects of the COVID-19 pandemic. Out of sixteen IUTAM events originally scheduled for the years 2020 and 2021, three IUTAM Symposia and one IUTAM Special Event were successfully held, all in 2021, either in a virtual or a hybrid format. The majority of the remaining IUTAM events were postponed by their Chairs and local organizers to 2022 and 2023, following the IUTAM Bureau's decisions allowing such postponement. New dates and formats, if available, are announced in the present IUTAM Newsletter. Please consult the IUTAM website for up-to-date information about all IUTAM events.

Summer 2022 meetings of the IUTAM General Assembly, Bureau, Congress Committee, and Executive Committee of the Congress Committee

The summer 2022 meetings of the IUTAM bodies will be held from 21 to 24 August 2022 in Cambridge, UK. The exact schedule and other details of the meetings can be found on [the event's website](#).

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

The online submission of proposals for IUTAM Symposia and IUTAM Summer Schools for the years 2024 and 2025 closed on 31 March 2022. In total, 29 proposals for IUTAM Symposia and 3 proposals for IUTAM Summer Schools have been received. The submissions have been evaluated by the IUTAM Symposia Panels and the final decisions will be made by the General Assembly of IUTAM during its meeting in Cambridge, UK on 22-23 August 2022.

IUTAM Report 2021

The IUTAM Report 2021 is now available online:

<https://iutam.org/wp-content/uploads/2022/06/Annual-Report-2021.pdf> .

Printed versions are freely available upon request.

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. Seven volumes (nos. 33–39) of the Series have already been published since 2018.

June 2022

Henryk Petryk
Secretary-General of IUTAM
Warsaw, Poland

IUTAM Symposia 2022

22-1 = 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

22-2 = 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
Co-Chair: **Prof. M. Abkar**
Aarhus University
Aarhus C, Denmark
Email: abkar@mpe.au.dk
Website: <https://conferences.au.dk/iutam/>

IUTAM Representative on Scientific Committee: Prof. D. Henningson

22-3 = 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
Website: <http://iutam2022-mams-mm.csp.escience.cn/>

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

22-4 = GA.18-01 IUTAM Symposium on Particles, drops and bubbles in stratified environments

Place: Toulouse, France
Date: July 4 – July 7, 2022
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

22-5 = 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
Website: <https://www.tuhh.de/alt/mum/iutam-symposium-2022.html>

IUTAM Representative on Scientific Committee: Prof. P. Eberhard

22-6 = GA.20-01 IUTAM Symposium: From Stokesian suspension dynamics to particulate flows in turbulence

Place: Toulouse, France
Date: August 29 – September 2, 2022
Chair: **Prof. M. Maxey**
Brown University
Providence, USA
Email: martin_maxey@brown.edu
Website: <https://www.imft.fr/from-stokesian-suspension-dynamics-to-particulate-flows-in-turbulence/>

IUTAM Representative on Scientific Committee: Prof. D. Lohse

22-7 = 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

22-8 = 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

22-9 = GA.18-13 IUTAM Symposium on Optimal guidance and control for autonomous systems

Place: Honolulu, USA
Date: 2022/2023, *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

22-10 = GA.18-14 IUTAM Symposium on Multiphysics analysis of wave propagation in electronic device structures

Place: Ningbo, China
Date: 2022/2023, *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

22-11 = GA.18-15 IUTAM Symposium on Mechanics of liquid crystal elastomers

Place: Houston, USA
Date: 2022/2023, *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 Symposia 2023

23-1 = GA.18-07 IUTAM Symposium on Ultralarge-scale topology optimization

Place: Kongens Lyngby, Denmark
Date: April 24 – April 26, 2023
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

23-2 = GA.20-04 IUTAM Symposium on Data-driven nonlinear and stochastic dynamics with the control

Place: Xi'an, China
Date: June 5 – June 9, 2023
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

23-3 = GA.18-02 IUTAM Symposium on Interface mechanics of complex flows and soft matter

Place: Beijing, China
Date: June 25 – June 28, 2023
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
Website: <http://iutam2020.pku.edu.cn>

IUTAM Representative on Scientific Committee: Prof. G. McKinley

23-4 = GA.18-11 IUTAM Symposium on Turbulent structure and particles-turbulence interaction

Place: Lanzhou, China
Date: July 7 – July 9, 2023
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.iutamlz.com/>

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

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

Place: Tsukuba, Japan
Date: July 31 – August 4, 2023
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

23-6 = 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
Website: <http://www.iutam-symposium.ovgu.de/>

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

23-7 = GA.18-03 IUTAM Symposium on Dynamics and interface phenomena of bubbles and droplets at multiple scales

Place: Tokyo, Japan
Date: 2023, *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

23-8 = 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

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

23-9 = 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

23-10 = GA.20-08 IUTAM Symposium on Soft matter mechanics

Place: Hangzhou, China
Date: 2023, *no exact dates available yet.*
Chair: **Prof. Y. Huang**
Northwestern University
Evanston, USA
Email: y-huang@northwestern.edu
Website: <http://www.iutam-smm2022.org/>

IUTAM Representative on Scientific Committee: Prof. H. Gao

23-11 = 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

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

IUTAM Summer Schools 2022

2022

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

Place:

Udine, Italy

Event dates:

June 13 – June 17, 2022

Coordinators:

Prof. R. Ogden

University of Glasgow

School of Mathematics and Statistics

University Place

G12 8SQ Glasgow, UK

Email: 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

Website:

<https://www.cism.it/en/activities/courses/C2204/>

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

Place: Udine, Italy
Event dates: July 11 – July 15, 2022
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
Website: <https://www.cism.it/en/activities/courses/C2207/>

2022 **IUTAM-CISM Summer School on Sports physics and technology**

Place: Udine, Italy
Event dates: September 19 – September 23, 2022
Coordinators: **Prof. A. Hosoi**
Massachusetts Institute of Technology
Department of Mechanical Engineering
77 Massachusetts Avenue
Massachusetts 02139, Cambridge, USA
Email: peko@MIT.EDU
Prof. C. Clanet
LadHyX, Ecole Polytechnique
Palaiseau, France
Email: clanet@ladhyx.polytechnique.fr
Website: <https://www.cism.it/en/activities/courses/C2211/>

IUTAM Endorsed Events 2022

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 **11th European Solid Mechanics Conference**

Place: Galway, Ireland
Date: July 4 – July 8, 2022
Chair: **Prof. Peter E. McHugh**
 Email: peter.mchugh@nuigalway.ie
Website: <http://www.esmc2022.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.

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

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