

PROGRAMME 2019

Rectors:

E. Guazzelli (Paris)
 F.G. Rammerstorfer (Vienna)
 W. A. Wall (Munich)

In 2019 the following Sessions of the International Centre for Mechanical Sciences (CISM) will take place at the seat of CISM in Udine (Italy)

The Christian Miehe Session

Dynamics of Machining: Prediction and Suppression of Undesired Vibrations

May 6 - 10

Invited Lecturers:

Yusuf Altintas (Vancouver, Canada), Erhan Budak (Tuzla, Turkey), Zoltan Dombovari (Budapest, Hungary), Jokin Munoa (Elgoibar, Spain), Gabor Stépán (Budapest, Hungary), Giovanni Totis (Udine, Italy).

Coordinator: G. Stépán

Micromechanics of Internal Stresses in Multiphase Materials

May 20 - 24

Invited Lecturers:

Helmut J. Böhm (Vienna, Austria), Giovanni Bruno (Berlin, Germany), Vladimir Buljak (Belgrade, Serbia), Mark L. Kachanov (Medford, MA, USA), Jaroslav Kováčik (Bratislava, Slovakia), Igor Sevostianov (Las Cruces, NM, USA).

Coordinator: G. Bruno

Cohesive Granular Materials, Description and Flowing Properties

May 27 - 31

Invited Lecturers:

Jamie Clayton (Tewkesbury, UK), Blanche Dalloz (Aix-Marseille, France), Cyprien Gay (Paris, France), Pierre Jop (Aubervilliers, France), Geoffroy Lumay (Liege, Belgium), Maxime Nicolas (Aix-Marseille, France), Marco Ramaioli (Guildford, UK).

Coordinators: B. Dalloz, P. Jop and M. Nicolas

Coherent Structures in Unsteady Flows: Mathematical and Computational Methods

CISM-ECCOMAS International Summer School

June 3 - 7

Invited Lecturers:

Marc Avila (Bremen, Germany), Francisco Beron-Vera (Miami, FL, USA), George Haller (Zürich, Switzerland), Oliver Junge (Munich, Germany), Rich Kerswell (Cambridge, UK).

Coordinator: G. Haller

Coupled Processes in Fracture Propagation in Geo-Materials: from Hydraulic Fractures to Earthquakes

June 10 - 14

Invited Lecturers:

Harsha Bhat (Paris, France), Dmitry Garagash (Halifax, Canada), Leonid Germanovich (Clemson, SC, USA), Brice Lecampion (Lausanne, Switzerland), Alexandre Schubnel (Paris, France), Robert Viesca (Medford, MA, USA).

Coordinators: H. Bhat and B. Lecampion

Mechanobiology and Tribology of the Skin – from Experimental Characterisation to Modelling

June 24 - 28

Invited Lecturers:

Michel Destrade (Galway, Ireland), Amit Gefen (Tel Aviv, Israel), Jakub Lengiewicz (Warsaw, Poland), Georges Limbert (Southampton, UK and Cape Town, South Africa), Marc Masen (London, UK), Edoardo Mazza (Zürich, Switzerland)

Coordinators: G. Limbert and M. Masen

Anisotropic Particles in Viscous and Turbulent Flows

CISM-AIMETA Advanced School

July 1 - 5

Invited Lecturers:

Jason Butler (Gainesville, FL, USA), Elisabeth Guazzelli (Paris, France), Cristian Marchioli (Udine, Italy), Francesco Picano (Padova, Italy), Alain Pumir (Lyon, France), Gautier Verhille (Aix-Marseille, France), Greg Voth (Middletown, CT, USA).

Coordinators: C. Marchioli and G. Verhille

Plant Biomechanic

24th CISM-IUTAM International Summer School

July 8 - 12

Invited Lecturers:

Emmanuel de Langre (Palaiseau, France), Anja Geitmann (Ste-Anne-de-Bellevue, QC, Canada), Noel Michele Holbrook (Cambridge, MA, USA), Oliver Jensen (Manchester, UK), Bruno Moulia (Clermont-Ferrand, France), Karl Niklas (Ithaca, NY, USA).

Coordinators: C. Eloy and Y. Forterre

Advances in Dispersed Multi-Phase Flows: from Measuring to Modeling

July 15 - 19

Invited Lecturers:

Luca Brandt (Stockholm, Sweden), Xiang Cheng (Minneapolis, MN, USA), Filippo Coletti (Minneapolis, MN, USA), Marc Massot (Palaiseau, France), Frédéric Risso (Toulouse, France), Remi Zamansky (Toulouse, France).

Coordinators: F. Coletti and R. Zamansky

Pattern Formation in Advanced Materials: Energetics and Evolution

July 22 - 26

Invited Lecturers:

Kaushik Bhattacharya (Pasadena, CA, USA), Georg Dolzmann (Regensburg, Germany), Klaus Hackl (Bochum, Germany), Richard D. James (Minneapolis, MN, USA), Dennis M. Kochmann (Zürich, Switzerland), Annie Raoult (Paris, France).

Coordinators: K. Hackl and D. M. Kochmann

The Olga Ladyzhenskaya Session

Electromechanical Transducers: Principles and Technologies

September 9 - 13

Invited Lecturers:

Vittorio Ferrari (Brescia, Italy), Hans Irschik (Linz, Austria), Bernhard Jakoby (Linz, Austria), Pasqualina M. Sarro (Delft, The Netherlands), Michiel Vellekoop (Bremen, Germany).

Coordinators: H. Irschik and B. Jakoby

Transport Phenomena on Textured Surfaces: Fundamentals and Applications

September 23 - 27

Invited Lecturers:

Vaibhav Bahadur (Austin, TX, USA), Darren Crowdy (London, UK), Marc Hodes (Medford, MA, USA), Alan Lyons (New York, NY, USA), Demetrios Papageorgiou (London, UK), David Quéré (Paris, France).

Coordinators: D. Crowdy and M. Hodes

The Art of Modeling in Computational Solid Mechanics

October 7 - 11

Invited Lecturers:

Francisco Chinesta (Nantes, France), Christian Gasser (Stockholm, Sweden), Dennis M. Kochmann (Zurich, Switzerland), Jörg Schröder (Duisburg, Germany), Ken Terada (Sendai, Japan), Peter Wriggers (Hannover, Germany).

Coordinators: J. Schröder and P. Wriggers

Controlling Delayed Dynamics: Advances in Theory, Methods and Applications

November 25 - 29

Invited Lecturers:

Dimitri Breda (Udine, Italy), Tamás Insperger (Budapest, Hungary), Bernd Krauskopf (Auckland, New Zealand), Wim Michiels (Heverlee, Belgium), Silviu Iulian Niculescu (Gif sur Yvette, France), Sjoerd Verduyn Lunel (Utrecht, The Netherlands)

Coordinator: D. Breda

International Advanced Professional Training

Vehicle Dynamics: Fundamentals and Ultimate Trends

September 2 - 6

Invited Lecturers:

Massimo Guiggiani (Pisa, Italy), Basilio Lenzo (Sheffield, UK), Gene Lukianov (Beverly Hills, MI, USA), Frank Naets (Leuven, Belgium), Francesco Timpone (Naples, Italy), Kyong Su Yi (Seoul, South Korea).

Coordinator: B. Lenzo

Joint Advanced School

CISM-JMBC Course on Complex Flows and Complex Fluids

May 13 - 17

Coordinator: Federico Toschi (TU Eindhoven, NL)

JMBC Representative: Gert-Jan van Heijst (TU Delft, NL)

CISM Representative: Alfredo Soldati (TU Wien, A)

National Advanced Professional Training

National Advanced Professional Training (APT) in the fields of Structural and Geotechnical Engineering, Surveying, Environmental, Bioengineering and Industrial Engineering will be given in Italian.

Admission to Courses

On-line applications should be submitted no later than one month before the course.

A limited number of participants from universities and research centres who are not supported by their own institutions, can be offered board and/or lodging. Application for support must be sent to CISM Secretariat (cism@cism.it) no later than two months before the course.

Detailed programmes, admission rules and on-line application forms are available on www.cism.it.

The 2019 Course Booklet can be downloaded from www.cism.it/courses

