

PROGRAMME 2017

Rectors:

E. Guazzelli (Marseille)

F. Pfeiffer (Munich)

F.G. Rammerstorfer (Vienna)

In 2017 the following Sessions of the International Centre for Mechanical Sciences (CISM) will take place at the seat of CISM in Udine (Italy)

The Sándor Kaliszky Session

Computational Methods for the Analysis, Design, and Failure of Composites

April 3 - 7

Invited Lecturers:

Serge Abrate (Carbondale, IL, USA), Olivier Allix (Cachan, France), Erasmo Carrera (Turin, Italy), Monica Ferraris (Turin, Italy), Raimund Rolfes (Hannover, Germany), Paul Weaver (Bristol, UK).

Coordinator: E. Carrera

Dynamic Stability and Bifurcation in Nonconservative Mechanics

CISM-AIMETA Advanced School

April 10 - 14

Invited Lecturers:

Davide Bigoni (Trento, Italy), Olivier Doaré (Palaiseau, France), Oleg Kirillov (Moscow, Russia), Andrei Metrikiner (Delft, The Netherlands), Oliver O'Reilly (Berkeley, CA, USA), Andy Ruina (Ithaca, NY, USA).

Coordinators: D. Bigoni and O. Kirillov

Mesoscale Models: from Micro-Physics to Macro-Interpretation

May 22 - 26

Invited Lecturers:

Samuel Forest (Evry, France), Istvan Groma (Budapest, Hungary), David McDowell (Atlanta, GA, USA), Sinisa Mesarovic (Pullman, WA, USA), Jean-Noël Roux (Champs-sur-Marne, France), Hussein Zbib (Pullman, WA, USA).

Coordinators: S. Forest, S. Mesarovic and H. Zbib

Towards a seamless Integration of CAD and Simulation

June 5 - 9

Invited Lecturers:

Gernot Beer (Graz, Austria), Kai-Uwe Bletzinger (Munich, Germany), Stéphane P.A. Bordas (Luxembourg and Cardiff, UK), Giuseppe Massoni (Rome, Italy), Michael Scott (Provo, UT, USA), Jessica Zhang (Pittsburgh, PA, USA).

Coordinators: G. Beer and S. P.A. Bordas

Growth and Remodeling in Soft Biological Tissue

23rd CISM-IUTAM International Summer School

June 12 - 16

Invited Lecturers:

Davide Ambrosi (Milan, Italy), Martine Ben Amar (Paris, France), Christian Cyron (Munich, Germany), Alain Goriely (Oxford, UK), Jay Humphrey (New Haven, CT, USA), Ellen Kuhl (Stanford, CA, USA).

Coordinators: C. Cyron and J. Humphrey

Continuum Mechanics and Physics of Liquid Crystals

June 26 - 30

Invited Lecturers:

Paolo Biscari (Milan, Italy), Samo Kralj (Maribor, Slovenia), Gaetano Napoli (Lecce, Italy), Tim Sluckin (Southampton, UK), Luigi Vergori (Glasgow, UK), Vincenzo Vitelli (Leiden, The Netherlands).

Coordinators: G. Napoli and L. Vergori

Mechanics of Liquid and Solid Foams

July 3 - 7

Invited Lecturers:

Stavros Gaitanaros (Cambridge, MA, USA), Sascha Hilgenfeldt (Urbana-Champaign, IL, USA), Reinhard Höhler (Paris, France), Andrew Kraynik (Albuquerque, NM, USA and Erlangen, Germany), Stelios Kyriakides (Austin, TX, USA), Patrick Onck (Groningen, The Netherlands).

Coordinators: A. Kraynik and S. Kyriakides

Bone Cell and Tissue Mechanics

July 10 - 14

Invited Lecturers:

Georg Duda (Berlin, Germany), Peter Fratzl (Potsdam, Germany), Jenneke Klein-Nulend (Amsterdam, The Netherlands), Ralph Müller (Zurich, Switzerland), Bert van Rietbergen (Eindhoven, The Netherlands), Tim Skerry (Sheffield, UK).

Coordinator: B. van Rietbergen

The Franz Ziegler Session

Novel Finite Element Technologies for Solids and Structures

CISM-ECCOMAS Summer School

September 18 - 22

Invited Lecturers:

Sven Klinkel (Aachen, Germany), Jože Korelc (Ljubljana, Slovenia), Paulo de Mattos Pimenta (Sao Paulo, Brazil), Joachim Schöberl (Vienna, Austria), Jörg Schröder (Duisburg, Germany), Peter Wriggers (Hannover, Germany).

Coordinators: P. de Mattos Pimenta and J. Schröder

Flowing Matter

September 25 - 29

Invited Lecturers:

Benjamin Dollet (Rennes, France), Ramin Golestanian (Oxford, UK), Elisabeth Guazzelli (Marseille, France), Kirsten Martens (Grenoble, France), Bernhard Mehlig (Gothenburg, Sweden).

Coordinators: B. Dollet and B. Mehlig

COST Representative: F. Toschi (TU Eindhoven, NL)

Material Parameter Identification and Inverse Problems in Soft Tissue Biomechanics

October 16 - 20

Invited Lecturers:

Stéphane Avril (Saint-Etienne, France), Sam Evans (Cardiff, UK), Christian Gasser (Stockholm, Sweden), Cees W.J. Oomens (Eindhoven, The Netherlands), Hazel Screen (London, UK), Jeffrey Weiss (Salt Lake City, UT, USA).

Coordinators: S. Avril and S. Evans

International Advanced Professional Training

Pressure Control with Energy Production by PAT (Pump as Turbine) in Water Supply Networks

September 11 - 15

Invited Lecturers:

Armando Carravetta (Naples, Italy), Shahan Derakhshan (Teheran, Iran), John Gallagher (Bangor, UK), Stefano Malavasi (Milan, Italy), Aonghus Mc Nabola (Dublin, Ireland), Helena Ramos (Lisbon, Portugal).

Coordinator: A. Carravetta

Highlights and Challenges in Diagnosis of Structural Integrity and Failures

October 2 - 6

Invited Lecturers:

Christian Boller (Saarbrücken, Germany), Spiliotis D. Fassois (Patras, Greece), Claus-Peter Fritzen (Siegen, Germany), Alfredo Güemes (Madrid, Spain), Malcolm McGugan (Roskilde, Denmark), Wiesław Ostachowicz (Gdansk, Poland), Afzal Suleman (Victoria, Canada).

Coordinators: C. Boller and W. Ostachowicz

Joint Advanced School

CISM-JMBC Course on Complex Flows and Complex Fluids

May 8 - 12

Coordinator: Federico Toschi (TU Eindhoven, NL)

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

CISM Representative: Alfredo Soldati (TU Wien, A)

CISM-EMS School on Rationality, Stable Rationality and Birationally Rigidity of Complex Algebraic Varieties

September 3 - 9

Coordinators: Francesco Zucconi and Pietro De Poi (University of Udine, I)

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. For all activities and meetings, please refer to our website.

Admission to Courses

Applications should reach CISM Secretariat no later than one month before the course. Name, degree, current address and course to be attended should be specified.

A limited number of academic participants, not supported by their own institutions, can be granted board and/or lodging upon application. Application for support must reach CISM Secretariat no later than two months before the course.

Detailed programmes, admission rules and on-line forms are available from the website.

The 2017 Course Booklet can be downloaded from www.cism.it/courses/

