

PROGRAMME 2024

www.cism.it

Rectors:

E. Guazzelli (Paris)
A. Soldati (Vienna)
W. A. Wall (Munich)

In 2024 the following Sessions will take place at the seat of CISM in Udine (Italy) and remotely

PAUL H. STEEN Session

Drops, Jets and Films

May 6 - 10

Invited Lecturers:

Daniel Bonn (Amsterdam, NL), Christophe Josserand (Palaiseau, FR), Detlef Lohse (Enschede, NL), Cameron Tropea (Darmstadt, DE), Alexander Yarin (Chicago, USA), Stéphane Zaleski (Paris, FR).

Coordinators: Cameron Tropea, Alexander Yarin

Experimental Substructuring and Transfer Path Analysis for Structural Assemblies

May 13 - 17

Invited Lecturers:

Daniel Rixen (Munich, DE), Gregor Čepon (Ljubljana, SLO), Maarten van der Seijs (Delft, NL), Matt Allen (Provo UT, USA), Joshua W R Meggitt (Salford, UK), Nevzat Özgüven (Ankara, TK).

Coordinators: Gregor Čepon, Daniel Rixen

Localization and Ductile Failure: Experimental, Theoretical and Computational Aspects

May 20 - 24

Invited Lecturers:

Ahmed Benallal (Gif Sur Yvette, FR), Jonas Faleskog (Stockholm, SE), Odd Sture Hopperstad (Trondheim, NO), David Morin (Trondheim, NO), José A. Rodríguez Martínez (Madrid, ES), Cihan Tekoglu (Ankara, TK).

Coordinators: Ahmed Benallal, Odd Sture Hopperstad

Physics of Musical Instruments Applied to Instrument Making

May 27 - 31

Invited Lecturers:

José Antunes (Lisboa, PT), Vasileios Chatziioannou (Vienna, AT), Jean-Pierre Dalmont (Le Mans, FR), Michele Ducceschi (Bologna, IT), Christophe Vergez (Marseille, FR), Romain Viala (Le Mans, FR).

Coordinators: José Antunes, Jean-Pierre Dalmont

Hysteresis in Functional Materials: from Physical Models to Numerical Simulation

June 3 - 7

Invited Lecturers:

Anouar Belahcen (Aalto, FI), Laurent Daniel (Paris, FR), Manfred Kaltenbacher (Graz, AT), Sven Klinkel (Aachen, DE), Pavel Krejčí (Prague, CZ), Astrid Pechstein (Linz, AT).

Coordinators: Manfred Kaltenbacher, Astrid Pechstein

Fluid Mechanics of Buildings for Energy, Health, and Well-Being

June 10 - 14

Invited Lecturers:

Bert Blocken (Leuven, BE), Henry Burridge (London, UK), Corinne Mandin (Fontenay-aux-Roses, FR), Cath Noakes (Leeds, UK), Jørn Toftum (Lyngby, DK).

Coordinator: Henry Burridge

Microphysics of Atmospheric Clouds

June 17 - 21

Invited Lecturers:

Annica Ekman (Stockholm, SE), Kalli Furtado (Exeter, UK), Wojciech W. Grabowski (Boulder, USA), Fabian Hoffmann (Munich, DE), Szymon Malinowski (Warsaw, PL), Annette Miltenberger (Mainz, DE), Annika Oertel (Karlsruhe, DE), Daniela Tordella (Torino, IT).

Coordinator: Daniela Tordella

Bone Cell and Tissue Mechanics

June 17 - 21

Invited Lecturers:

Georg Duda (Berlin, DE), Peter Fratzl (Potsdam, DE), Jenneke Klein-Nulend (Amsterdam, NL), Ralph Müller (Zürich, CH), Gwendolen Reilly (Sheffield, UK), Marco Viceconti (Bologna, IT).

Coordinator: Gwendolen Reilly

Multi-Field Problems Across Different Scales Materials for the Development of Green Technologies

27th CISM-IUTAM International Summer School

June 24 - 28

Invited Lecturers:

Vikram Deshpande (Cambridge, UK), Michele Marino (Rome, IT), Jörg Schröder (Essen, DE), Laurent Stainier (Nantes, FR), Heiko Wende (Duisburg, DE), Hongbin Zhang (Darmstadt, DE).

Coordinators: Jörg Schröder, Michele Marino

Variational Fracture Mechanics and Phase-Field Models

9th CISM-ECCOMAS Advanced School

July 1 - 5

Invited Lecturers:

Blaise Bourdin (Hamilton, CAN), Laura De Lorenzis (Zurich, CH), Jack S. Hale (Esch-sur-Alzette, LU), Flaviana Iurlano (Paris, FR), Corrado Maurini (Paris, FR), Peter W. Voorhees (Evanston, USA).

Coordinators: Laura De Lorenzis, Corrado Maurini

Mechanics of Active and Biological Structures: from Fundamentals to Recent Results

10th CISM-AIMETA Advanced School

July 8 - 12

Invited Lecturers:

Antonio De Simone (Pisa, IT), Laura De Lorenzis (Zurich, CH), Alain Goriely (Oxford, UK), Ellen Kuhl (Stanford, USA), Krishnaswamy Ravi-Chandar (Austin, USA), Pedro Reis (Lausanne, CH).

Coordinators: Antonio De Simone, Pedro Reis

Computational Modelling of the Heart: from Fundamentals to Clinical Applications

CISM-EUROMECH Summer School

July 8 - 12

Invited Lecturers:

Christoph Augustin (Graz, AT), Javier Bermejo (Madrid, ES), Patrick M. Boyle (Seattle, USA), Juan Carlos del Álamo (Seattle, USA), Manuel Garcia-Villalba (Wien, AT), Maria J. Ledesma-Carbayo (Madrid, ES).

Coordinators: Juan Carlos del Álamo, Manuel Garcia-Villalba

Inverse Problems for Mechanical Systems: Methods, Simulations and Experiments

July 15 - 19

Invited Lecturers:

Alexandre Kawano (São Paulo, BR), Antonino Morassi (Udine, IT), John Mottershead (Liverpool, GB), Sifeng Bi (Glasgow, UK), Assad A. Oberai (Los Angeles, USA), Efim Shifrin (Moscow, RU), Mourad Sini (Linz, AT).

Coordinators: Alexandre Kawano, Antonino Morassi

Dense Particulate Flows: from Micromechanical to Macroscopic Modeling

July 22 - 26

Invited Lecturers:

Pascale Aussillous (Marseille, FR), Elisabeth Guazzelli (Paris, FR), Douglas Jerolmack (Philadelphia, USA), Wilson Poon (Edinburgh, UK), Franco Tapia (Dresden, DE), Martin Trulsson (Lund, SE), Bernhard Vowinkel (Dresden, DE).

Coordinators: Pascale Aussillous, Bernhard Vowinkel

GIANPIETRO DEL PIERO Session

Contact Mechanics in Multibody Dynamics: from Modeling to Applications

September 2 - 6

Invited Lecturers:

Jorge Ambrósio (Lisbon, PT), Paulo Flores (Minho, PT), Christian Hesch (Siegen, DE), Bernard Brogliato (Grenoble, FR), Josep Font-Llagunes (Catalunya, ES), Alessandro Tasora (Parma, IT).

Coordinators: Paulo Flores, Christian Hesch

Model Reduction and Machine Learning for Solids, Fluids and Controls

CISM-EUROMECH Advanced School

September 9 - 13

Invited Lecturers:

Balakumar Balachandran (College Park, USA), Charbel Farhat (Stanford, USA), Michael Graham (Madison, USA), George Haller (Zürich, CH), Shobhit Jain (Delft, NL), Gianluigi Rozza (Trieste, IT).

Coordinators: George Haller, Jain Shobhit

Tensegrity Systems: from Biomechanics to Mechanical Metamaterials

September 16 - 20

Invited Lecturers:

Anna Al Sabouni-Zawadzka (Warsaw, PL), Fernando Fraternali (Salerno, IT), Andrea Micheletti (Rome, IT), Chai Lian Oh (Shah Alam, MY), Julián Rimoli (Irvine, USA), Graham Melvin Scarr (Nottingham, GB).

Coordinators: Fernando Fraternali, Julián Rimoli

Computational and Geometric Mechanics of Discrete and Continuum Systems

September 23 - 27

Invited Lecturers:

Géry de Saxcé (Lille, FR), Frédéric Boyer (Nantes, FR), Andreas Müller (Linz, AT), Radu Serban (Madison, USA), Zdravko Terze (Zagreb, HR).

Coordinators: Andreas Müller, Zdravko Terze

Time and Rate-Dependent Damage Evolution and Fracture in Advanced Composites

September 30 - October 4

Invited Lecturers:

Holm Altenbach (Magdeburg, DE), René de Borst (Sheffield, UK), Christophe Czarnota (Lorraine, FR), Liviu Marsavina (Timisoara, RO), Tomasz Sadowski (Lublin, PL), George Z. Voyiadjis (Baton Rouge, USA).

Coordinators: Tomasz Sadowski, Holm Altenbach

Dynamics of Human Balancing

October 14 - 18

Invited Lecturers:

Tamás Insperger (Budapest, HU), Ian Loram (Manchester, UK), John Milton (Austin, USA), Morasso Pietro (Genoa, IT), Taishin Nomura (Osaka, JP), Gabor Stepan (Budapest, HU).

Coordinators: Tamás Insperger, John Milton

Domain Decomposition and Multigrid Methods for Computational Structure Mechanics

October 21 - 25

Invited Lecturers:

Pierre Gosselet (Lille, FR), Axel Klawonn (Köln, DE), Matthew Knepley (Buffalo, USA), Radek Kučera (Ostrava-Poruba, CZ), Oliver Rheinbach (Freiberg, DE), Nicole Spillane (Palaiseau, FR).

Coordinator: Pierre Gosselet

All CISM events of 2024, including Joint Advanced Schools and Professional Training Courses (both National and International), can be found at the website www.cism.it or scanning the QR-code at the bottom of this Poster.

CISM | Piazza Garibaldi 18, 33100 Udine, Italy | Ph. +39 0432 248511 | Fax +39 0432 248550 | cism@cism.it

Professor Antonio De Simone
Secretary General

dr. Mario Pezzetta
President of the Board of Directors

