



# International Centre for Mechanical Sciences

## PROGRAMME 2024

### PAUL H. STEEN Session

- C2401 - Drops, Jets and Films**  
Coordinators: Cameron Tropea (Darmstadt, DE), Alexander Yarin (Chicago, IL, USA) May 6 - 10
- C2402 - Experimental Substructuring and Transfer Path Analysis for Structural Assemblies**  
Coordinators: Gregor Čepon (Ljubljana, SLO), Daniel Rixen (Munich, DE) May 13 - 17
- C2403 - Localization and Ductile Failure: Experimental, Theoretical and Computational Aspects**  
Coordinators: Ahmed Benallal (Paris, FR), Odd Sture Hopperstad (Trondheim, NO) May 20 - 24
- C2404 - Physics of Musical Instruments Applied to Instrument Making**  
Coordinators: José Antunes (Lisboa, PT), Jean-Pierre Dalmont (Le Mans, FR) May 27 - 31
- C2405 - Hysteresis in Functional Materials: from Physical Models to Numerical Simulation**  
Coordinators: Manfred Kaltenbacher (Graz, AT), Astrid Pechstein (Linz, AT) June 3 - 7
- C2406 - Fluid Mechanics of Buildings for Energy, Health, and Well-Being**  
Coordinator: Henry Burridge (London, UK) June 10 - 14
- C2407 - Microphysics of Atmospheric Clouds**  
Coordinator: Daniela Tordella (Turin, IT) June 17 - 21
- C2408 - Bone Cell and Tissue Mechanics**  
Coordinator: Gwendolen Reilly (Sheffield, UK) June 17 - 21
- C2409 - 27th CISM-IUTAM International Summer School**  
**Multi-Field Problems Across Different Scales - Materials for the Development of Green Technologies**  
Coordinators: Jörg Schröder (Essen, DE), Michele Marino (Rome, IT) June 24 - 28
- C2410 - 9th CISM-ECCOMAS Advanced Course**  
**Variational Fracture Mechanics and Phase-Field Models**  
Coordinators: Laura De Lorenzis (Zurich, CH), Corrado Maurini (Paris, FR) July 1 - 5
- C2411 - 10th CISM-AIMETA Advanced Course**  
**Mechanics of Active and Biological Structures: from Fundamentals to Recent Results**  
Coordinators: Antonio De Simone (Pisa, IT), Pedro Reis (Lausanne, CH) July 8 - 12
- C2412 - CISM-EUROMECH Advanced Course**  
**Computational Modelling of the Heart: from Fundamentals to Clinical Applications**  
Coordinators: Juan Carlos del Alamo (Seattle, MA, USA), Manuel Garcia-Villalba (Wien, AT) July 8 - 12
- C2413 - Inverse Problems for Mechanical Sys+tems: Methods, Simulations and Experiments**  
Coordinators: Alexandre Kawano (São Paulo, BR), Antonino Morassi (Udine, IT) July 15 - 19
- C2414 - Dense Particulate Flows: From Micromechanical to Macroscopic Modeling**  
Coordinators: Pascale Aussillous (Marseille, FR), Bernhard Vowinkel (Braunschweig, DE) July 22 - 26

### GIANPIETRO DEL PIERO Session

- C2415 - Contact Mechanics in Multibody Dynamics: From Modeling to Applications**  
Coordinators: Paulo Flores (Minho, PT), Christian Hesch (Siegen, DE) September 2 - 6
- C2416 - CISM-EUROMECH Advanced Course**  
**Model Reduction and Machine Learning for Solids, Fluids and Controls**  
Coordinators: George Haller (Zürich, CH), Jain Shobhit (Delft, NL) September 9 - 13
- C2417 - Tensegrity Systems: From Biomechanics to Mechanical Metamaterials**  
Coordinators: Fernando Fraternali (Salerno, IT), Julián Rimoli (Irvine, CA, USA) September 16 - 20
- C2418 - Computational and Geometric Mechanics of Discrete and Continuum Systems**  
Coordinators: Andreas Müller (Linz, AT), Zdravko Terze (Zagreb, HR) September 23 - 27
- C2419 - Time and Rate-Dependent Damage Evolution and Fracture in Advanced Composites**  
Coordinators: Tomasz Sadowski (Lublin, PL), Holm Altenbach (Magdeburg, DE) September 30 - October 4
- C2420 - Dynamics of Human Balancing**  
Coordinators: Tamás Insperger (Budapest, HU), John Milton (Austin, TX, USA) October 14 - 18
- C2421 - Domain Decomposition and Multigrid Methods for Computational Structure Mechanics**  
Coordinator: Pierre Gosselet (Lille, FR) October 21 - 25