

PROGRAM

Wednesday 20	
11:00-13:00	Minicourse (Di Carlo) <i>Marrying continuum mechanics and molecular physics via the Andersen-Parrinello-Rahman method</i>
14:30-14:45	Opening
14:45-15:30	Šilhavý <i>Peridynamics and Coleman & Noll's retardation theorem</i>
15:30-15:50	Break
16:50-17:35	Davini <i>Composite thin-walled beams by Γ-convergence: from theory to applications</i>
17:35-18:20	Del Piero <i>Balance of Linear Momentum, Newton's Third Law, and Generalized Continua</i>

Thursday 21	
9:00-9:45	Cermelli <i>Mathematical problems related to the mechanical stability of viral capsids and protein complexes</i>
9:45-10:30	Paroni <i>The energy of a Möbius band</i>
10:30-10:50	Break
10:50-11:35	Fried <i>Kinematics and energetics of unstretchable two-dimensional elastic bodies</i>
11:35-12:20	Arroyo <i>Mathematical modeling of the elasto-hydrodynamics of lipid membranes</i>
	Lunch
14:00-14:45	Degiovanni <i>Variational methods and functionals defined on BD</i>
14:45-15:30	Goriely <i>A Geometric Theory of Nonlinear Morphoelastic Shells</i>
15:30-16:00	Break
16:00-18:00	Minicourse (Podio-Guidugli) <i>Diffusion, yesterday's and tomorrow's</i>
20:30	Social dinner

Friday 22	
9:00-9:45	Schuricht <i>Foundations of continuum mechanics</i>
9:45-10:30	Antman <i>Nonlinear viscoelastic bodies under live loads</i>
10:30-11:00	Break
11:00-13:00	Minicourse (De Simone) <i>Mechanics of biological and bio-inspired locomotion: some case studies</i>