Anna Pandolfi, Politecnico di Milano

Talk title	Geometrically-exact time-integration mesh-free schemes for advection-diffusion problems derived from optimal transportation theory
Biography	Professor of Structural Mechanics and Solid Mechanics, Politecnico di Milano, Anna Pandolfi holds a Visiting Associate Position at California Institute of Technology, Pasadena CA, USA. She obtained the PhD in Mechanics at the Université de Metz, France and the MS in Civil Engineering at the Politecnico di Milano. She is currently a member of the Council of the European Mechanics Society (Euromech) and Coordinator of the Italian Computational Mechanics Group (GIMC). She is author of 64 publications in peer-reviewed international journals and of other 50 scientific works. She belongs to the Editorial Board of the International Journal of Fracture and serves as a reviewer for more than 60 scientific journals in the field of mechanics, biomechanics and physics. She delivered honorary lectures in numerous international conferences and workshops, and delivered invited research seminars in more than 65 scientific international Institutions. Her research topics include: space and time discretization methods for coupled problems (poromechanics and electromechanics). Biomechanics of soft biological tissues as cornea, retina, artery, muscle, and intestine. Constitutive and numerical modelling of complex and fibrous materials and metamaterials. Simulations of propagation of fracture in solids, thin shells and plates, using self-adaptive cohesive and erosion approaches and non-smooth contact.