MONDAY   June 26

8 - 8:45	**Registration**
8:45 - 9	**Conference opening**
9 - 9:50	**Keynote**
	Rigorous homogenization results leading to generalized continua — P. Seppecher
9:50 -10:40	**Dislocations, plasticity and defects**
	Minimal gradient-enhancement of crystal plasticity: computational aspects and size effects — S. Stupkiewicz
	Is there any counterpart of Noether's theorem in dissipative setting? — P.M. Mariano
10:40 - 11:15	**Coffee break**
11:15 - 12:30	**Composites**
	Modelling defects during composite reinforcements and prepreg forming — P. Boisse
	Fibrous composite reinforcements as second gradient materials — G. Barbagallo
	Enhancement of multifiber beam elements in the case of reinforced concrete structures for taking into account the lateral confinement of concrete due to stirrups — N. Khoder
12:30 - 14:30	**Lunch**

14:30 - 16:15	**Waves in microstructured solids**	
	Non-conventional dynamic behaviour of highly contrasted structured plates	C. Boutin
	Scattering of elastic waves by a shear band	D. Capuani
	Wave propagation in amorphous materials with inclusions	A. Tanguy
	The Waves of Phase Change	X. Markenscoff
16:15 - 16:45	**Coffee break**	
16:45 - 17:35	**Cracks**	
	Assessment of Crack Arrays An Engineering Approach	R. Kienzler
	Discontinuous Galerkin method in modeling wave propagation in materials with micro-cracks	Q. Gomez

TUESDAY   June 27

9 - 9:50	**Keynote**	
	A canonical rate-independent model of geometrically linear isotropic gradient plasticity with isotropic hardening and plastic spin accounting for Burgers vector	P. Neff
9:50 -10:40	**Waves in microstructured solids**	
	Dispersion and band-gaps in micromorphic media and metamaterials	A. Madeo
	Transparent relaxed micromorphic description of anisotropy in metamaterials	M.V. d'Agostino
10:40 - 11:15	**Coffee break**	
11:15 - 12:30	**Porous media**	
	Phase-field modeling of a fluid-driven fracture in a poroelastic medium	A. Mikelic
	A rational derivation of Biot's and Terzaghi's paradigms from a constraint-free variational continuum two- phase poroelasticity theory adopting minimal kinematic descriptors	R. Serpieri
	The Principle of G-Covariance in modelling biological tissues	S. Di Stefano
12:30 - 14:30	**Lunch**	

14:30 - 16:15	**Dislocations, plasticity and defects**	
	Dislocation Core/Solute Atom Interactions from First Principles	D.C. Chrzan
	Eshelbian dislocation mechanics: J-, M- , and L-integrals	E. Agiasofitou
	Non-singular dislocation continuum theories: Strain gradient elasticity versus Peierls-Nabarro model	M. Lazar
	Modeling and characterization of long-term hydrogen interactions with defects in palladium nanoparticles	P. Ariza
16:15 - 16:45	**Coffee break**	
	Guided tour of the city	

WEDNESDAY   June 28

9 - 9:50	**Keynote**	
	Internal Length Gradient (ILG) coupled mechanics: Formulation, questions and applications	E. Aifantis
9:50 -10:40	**Composites**	
	Strength analysis of composite materials based on damage parameters	E. Lomakin
	Design of anisotropic heterogeneous materials with desired physical properties using statistical continuum theory	A. Makradi
10:40 - 11:15	**Coffee break**	
11:15 - 12:30	**Waves in microstructured solids**	
	A homogenization framework based on Floquet-Bloch transform towards a generalized micromorphic continuum	A. Sridhar
	Enriched continuum emerging from the homogenization of materials with micro-inertia effects	V. Kouznetsova
	Propagation and scattering in a Riemann-Cartan material manifold	L. Le Marrec
12:30 - 14:30	**Lunch**	

14:30 - 15:45	**Materials with heterogeneous microstructure**	
	Ultralight Structural Metamaterials: Finite Element Analysis and Mechanical Optimization	B. Eidel
	On weak solutions for linear pantographic beam lattices	V. Eremeyev
	Multi-scale analysis of the impact resistance of microstructured solids - a new project proposal	G. Molnar
15:45 - 16:15	**Coffee break**	
16:15 - 17:05	2nd **gradient continua**	
	An ortho-fiber theory for second gradient materials	F. Froiio
	Contribution to continuum physics within gradient continuum : Interaction of electromagnetism with mechanics	L. Rakotomanana

THURSDAY   June 29

9 - 9:50	**Keynote**	
	Configurational forces in elastic structures	D. Bigoni
9:50 -10:40	**Waves in microstructured solids**	
	Micromorphic model for modeling adaptive piezocomposite gradient materials	M. Collet
	Modeling of nonlinear waves in solids with slow dynamics	B. Lombard
10:40 - 11:15	**Coffee break**	
11:15 - 12:30	**Configurational forces and existence results**	
	Understanding enhanced fracture toughness of twisted plywood structures by configurational forces	F.D. Ficher
	Configurational Forces on Various Elastic Singularities	Y.E. Pak
	A non-rank-one convexity result involving geodesically motivated logarithmic strain measures	I.D. Ghiba
12:30 - 14:30	**Lunch**	

14:30 - 15:45	**Dislocations, plasticity and defects**	
	A Gradient Crystal Plasticity Model that Accounts for Size Effects by a Discontinuous Accumulated Plastic Slip	H. Erdle
	Kink pair production and dislocation motion	S. Fitzgeranld
	On some approaches of graded damage modelling	C. Stolz
15:45 - 16:15	**Coffee break**	
16:15 - 17:05	**Dislocations, plasticity and defects**	
	Nonlinear defects kinetics and structured wave propagation in second-gradient materials (experimental and theoretical study)	O. Naimark
	3D Origami with Semiconductors	A. Danescu