Program of the IRP Coss&Vita closing meeting and workshop

Monday 9th October

9h30	*Welcome coffee*

10h00	Opening
10h30	Francesco dell'Isola - University of L'Aquila *The problem of Synthesis of Metamaterials*
11h30	Valentin Calisti - Institute of mathematics of the Czech Academy of sciences *Emergence of elastostatic strain-gradient effects from topological optimization*

12h00	*Lunch break*

14h00	Luca Placidi - Uninettuno University *Characterization of the elastic modulus via a strain gradient dynamic model*
14h30	Natalia Muhl Castoldi -MSME / Université Paris-Est Créteil *On modelling spinal growth*
15h00	François Hild - ENS Paris Saclay *Mesoscale DVC Analyses and parameter calibration for pantographic block*

15h30	*Coffee break*

16h00	Massimo Cuomo - University of Catania *Recent advances in non-linear simulation of slender structures*
16h30	Francesco D'Annibale - University of L'Aquila *Statics and dynamics of a beam-like structure made of a chiral metamaterial*
17h00	Pierre Seppecher - Université de Toulon *One dimensional periodic microstructures exhibiting effective Timoshenko beam behavior*

17h30	*Aperitif*

Tuesday 10th October

9h00	*Welcome coffee*

9h30	Andrea Colombi , University of Applied Science Zurich *Architected plates for vibration control*
10h00	Max Gattin - MSME / Université Paris-Est Créteil *Towards ultrasonic monitoring of multiphase architectured media through bandgap tracking*
10h30	Anne-Sophie Poudrel - PIMM/ ENSAM Paris *Ultra-wideband characterization of viscoelastic materials: from quasi-static to ultrasounds*

11h00	*Coffee break*

11h30	Pierre Margerit - PIMM / ENSAM Paris *Stroboscopic imaging for the dynamical analysis of architectured material*
12h00	Martin Poncelet - LMPS / ENS Paris Saclay *Can we perform homogeneization with imperfect boundary conditions ?*

12h30	*Lunch break*

14h30	Fabien Amiot/Gael Chevallier - FEMTO-ST *Towards a second-gradient elasticity pattern based on multi-material 3D printing*
15h00	Manon Thbaut - LMS / École Polytechnique *Capturing boundary effects in asymptotic homogenization solves apparent incoherence of a non-positive strain-gradient stiffness*
15h30	J-F- Ganghoffer - LEM3 / Université de Lorraine *A new look at periodic homogenization methods towards generalized continua and applications to architectured materials*

16h00	*Coffee break*