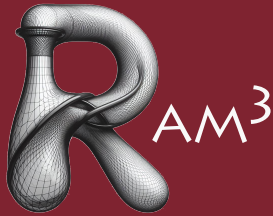


RECENT ADVANCES IN MECHANICS AND MATHEMATICS OF MATERIALS



4th International Meeting of Young Researchers

Rome, February 21st-22nd 2024 - Faculty of Civil and Industrial Engineering - Room 17

Keynote Lectures

Antonio DE SIMONE

Scuola Superiore Sant'Anna (Italy)

Morphing and shape control, with applications to biological and bio-inspired motility

Vikram DESHPANDE

University of Cambridge (UK)

3D observations drive a new paradigm in rubber elasticity

Michel JABBOUR

École Polytechnique (France)

Crystal Growth: Surface Evolution and Stability

Speakers

Barbora BENEŠOVÁ (Czech Republic)

Non-interpenetration in thin films

Harold BERJAMIN (Ireland)

On the dynamics of soft magnetoelastic composites

Emanuela Bosco (the Netherlands)

A chemo-mechanical model to predict the aging and degradation of historical paintings

Noy Cohen (Israel)

Exploiting geometric incompatibilities to induce twist in tubular structures

Alexander ERLICH (France)

Mechanical feedback and incompatibility in size regulation

Stavros GAITANAROS (USA)

Shock dynamics of architected materials

Pavel GALICH (Israel)

Phononic crystals inspired by the wallpaper groups

Laurent GUIN (France)

Effect of stress on the electrochemical response of silicon electrodes

Martin HORÁK (Czech Republic)

Beam lattice metamaterials with internal contact

Ajeet KUMAR (India)

An electroelastic Kirchhoff rod theory incorporating free space electric energy

Alessandro LERONNI (UK)

Osmotic pressure: how to account for it in chemo-mechanical theories?

Ornella MATTEI (USA)

Bounds on the time response of viscoelastic composites

Eoin McEVoy (Ireland)

Mechanobiology of stress-dependent cell and tumour growth

Siddharta Harsha OMMI (France)

Modeling of drying-induced complex fracture initiation in granular geomaterials

Marco PENSALFINI (Spain)

Modeling the contribution of intermediate filaments to load bearing in stretched epithelia

Marco PICCHI SCARDAONI (Italy)

Bending of tape spring devices

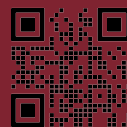
Souyahl SADIK (Denmark)

Nonlinear Anisotropic Viscoelasticity

Marco SALVALAGLIO (Germany)

Elasticity and plasticity at the mesoscale by phase field crystal modeling

DIPARTIMENTO
DI INGEGNERIA STRUTTURALE
E GEOTECNICA



Organizers

Jacopo CIAMBELLA - Antonino FAVATA

Under the auspices of



SAPIENZA
UNIVERSITÀ DI ROMA



GNFM Gruppo Nazionale per la Fisica Matematica

