

RECENT ADVANCES IN MECHANICS

AM³ and Mathematics of Materials

2nd International Meeting of Young Researchers

Rome, 18-20 November 2019 - Faculty of Civil and Industrial Engineering

Keynote Lectures

Kaushik Bhattacharya

California Institute of Technology (USA)

Liquid crystal elastomers

Michel DESTRADE

NUI Galway (Ireland)

Mechanics of the brain

Speakers

Jeremy BLEYER (France)

An overview of computational limit analysis for civil engineering applications

Federico Bosi (UK)

The onset of plasticity through inflation of soft membranes

Laurence BRASSART (UK)

Micromechanics of near-ideal plymer networks

Shawn A. CHESTER (USA)

Experiments and Modeling of Viscoelastic Polymer Gels

Andrew T. CONN (UK)

Harnessing the non-linear behaviour of dielectric elastomers for soft robotics

Vito CRISMALE (France)

Existence and approximation of equilibrium configurations for epitaxially strained crystalline films

Moumita Das (USA)

Anomalous phase separation in co-cultures of cells with different mechanical properties

Elisa Davoli (Austria)

Two-well rigidity and multidimensional sharp-interface limits for solid-solid phase transition

Andrej KošmrlJ (USA)

Mechanical Instabilities in Growing Biological Systems: Wrinkling and Branching

Yi-Chao CHEN

University of Houston (USA)

Mechanics of Growth and Growth of Mechanics

Roberto Paroni

University of Pisa (Italy)

From graphene to microscopially piece-wise rigid plates

Claire LESTRINGANT (Switzerland)

Higher-order models for the analysis of localized instabilites in elastic slender solids

Derek E. Moulton (UK)

Morphorods: pattern formation in growing elastic rods

Gianluca ORLANDO (Germany)

Mathematical modeling of the nonlinear mechanical response of graphene monolayers

Paolo Piovano (Austria)

Microscopic justification of a model for epitaxially-strained crystalline films

Tomoiko G. Sano (Switzerland)

Slip or (k)not: Geometry and mechanical performance of physical knots

Brian SEGUIN (USA)

Isometric deformations: closed ribbons and beyond

Gal SHMUEL (Israel)

Stimuls-Momentum Coupling in Active Metamaterials with Broken Symmetry

Ian Tobasco (USA)

The cost of crushing: curvature-driven wrinkling of thin films

Hervé TURLIER (France)

Mechanics of early embryo morphogenesis

DIPARTIMENTO DI INGEGNERIA STRUTTURALE E GEOTECNICA

Organizers

Roberto Alessi, Jacopo Ciambella, Antonino Favata





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