



RECENT ADVANCES IN MECHANICS AND MATHEMATICS OF MATERIALS

3rd International Meeting of Young Researchers

Rome, September 30th - October 1st, 2021 - Faculty of Civil and Industrial Engineering

Keynote Lectures

Davide BIGONI (*Signorini Lecture*)

University of Trento (Italy)

Flutter instability and non-holonomic constraints

Adriana GARRONI

Sapienza University of Rome (Italy)

*Rigidity for incompatible fields and variational models
for material defects*

John MADDOCKS

École Polytechnique Fédérale de Lausanne (Switzerland)

Tba

Paul STEINMANN

University of Erlangen-Nuremberg (Germany)

Views and Perspectives on Configurational Mechanics

Speakers

Jean-François BABADJAN (France)

Shape optimization of light structures

Valentina BALBI (Ireland)

The mechanics of a twisted brain

Andrés A. León BALDELLI (France)

Instabilities in irreversible systems: the case of fractures

Matteo BRUNETTI (Italy)

*Enhanced models for the analysis of
localization phenomena in slender elastic rods*

Riccardo DE PASCALIS (Italy)

*Quasilinear Viscoelasticity: modelling
and some applications in acoustoelasticity*

Vito DIANA (Italy)

Continuum-molecular models for anisotropic materials

Matej KRAJNC (Slovenia)

*Active dynamics of cell-cell junctions
in confluent epithelia*

Alexander NESTOR-BERGMANN (UK)

Active tissue dynamics in a morphoelastic model

Antonio PALERMO (Italy)

On the dynamics of elastic metasurfaces

Ilya PESHKOV (Italy)

*A monolithic framework for solid-fluid
transformation modeling*

Matteo PEZZULLA (Denmark)

*A Geometrically Exact Model for Thin
Magneto-elastic Shells*

Samuel POINCLoux (Switzerland)

Multi-layered structures with internal friction

Davide RICCOBELLI (Italy)

*From coronavirus infections to Alzheimer's disease:
mathematical modeling of axonal*

Matteo TAFFETANI (UK)

*Circular ridges in indented shells of revolution:
formation and buckling*

Alexander TORRES-SANCHEZ (Spain)

Modelling and simulation of the cell surface

DIPARTIMENTO
DI INGEGNERIA STRUTTURALE
E GEOTECNICA

Organizers

Jacopo CIAMBELLA, Antonino FAVATA

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