

AM^3

RECENT ADVANCES IN MECHANICS AND MATHEMATICS OF MATERIALS A young researchers' meeting

Rome, 22-24 November 2017

DESCRIPTION

Owing to the recent advances in experimental mechanics novel materials, with unique mechanical properties and the ability to respond to external stimuli, are constantly being developed. Such a fecund experimental framework continuously demands new models that account for features such as multi-physics coupling, material instabilities, growth and remodelling as well as extreme slenderness or thickness.

Within this framework, the Workshop will offer a broad overview of novel findings in solid mechanics from both theoretical and experimental perspectives. The final goal of the meeting is to foster new ideas and promote genuinely new collaborations by gathering together young researchers from all over Europe.

TOPICS

Topics of the workshop are research in solid mechanics including linear and nonlinear elasticity, wave propagation problems, phase-fields modelling with applications in material science, biomecha*nics, engineering* and *industry*. The topics include but are not limited to:

- Materials
- (electro-, magneto-, ...) active
- innovative composite
- micro- and nano-structured
- shape memory
- soft

- Advanced experimental techniques • Advanced numerical methods
- Growth and remodelling
- Instabilties
- Multiscale modeling
 - Variational methods

VENUE

Faculty of Engineering, SAPIENZA University of Rome Via Eudossiana 18, 00184, Rome

DATE 22-24 November 2017

PRELIMINARY LIST OF SPEAKERS

- Isaac CHENCHIAH, School of Mathematics, University of Bristol, UK
- Kostas DANAS, École Polytechnique, Paris, France
- Marcelo A. DIAS, Aarhus University, Denmark
- Giulio GIUSTERI, Okinawa Institute of Science and Technology, Japan

- Diego MISSERONI, University of Trento, Italy
- Lorenzo MORINI, Cardiff University, UK
- Alberto PIRRERA, University of Bristol, UK
- Stephan RUDYKH, Technion, Israel Institute of Technology, Haifa, Israel
- Dimitris SFYRIS, National Technical University of Athens, Athens, Greece
- Luigi VERGORI, University of Perugia, Perugia, Italy
- Thomas WICK, École Polythecnique, Paris, France
- Giuseppe ZURLO, National University of Ireland, Galway, Ireland

Keynote Lectures

- Eliot FRIED, Okinawa Institute of Science and Technology, Japan
- Giuseppe SACCOMANDI, University of Perugia, Perugia, Italy
- Lev TRUSKINOVSKY, PMMH, CNRS, ESPCI ParisTech, Paris, France

ORGANIZERS

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