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The aim of GADeS is to promote the scientific interaction between researchers operating in the fields of Solid and Structural Dynamics, Machine Dynamics and Dynamical Systems, as well as the opportunity for improving cooperation with researchers working on Identification and Control problems, independently from the scientific sector, thus in coherence with the AIMETA's statutory spirit. Indeed, the integration of researchers, who are studying particular and/or complementary problems, appears very important since it can enlarge the range of interests of the Group. Therefore, the AIMETA GADeS Group is specifically aimed at sharing knowledge from different sectors, through the organization of workshop, minisymposia, special sessions in AIMETA's conferences and, last but not least, the coordinated participation to Italian and European research project.

## Sponsors



Università degli Studi di Brescia



DICATAM, Università degli Studi di Brescia

## Conference venue

The Conference will take place in Sala Consiliare, Ingegneria, Via Branze 38, Brescia.

## Organizing Committee

Claudio Giorgi (Università degli Studi di Brescia)

Maria Grazia Naso (Università degli Studi di Brescia)

Elena Vuk (Università degli Studi di Brescia)

## Program

### September 15, 2016 — afternoon

- 14.00–14.15 *registration*
- 14.15–14.30 *opening & welcome*
- 14.30–14.40 Angelo CARINI (Brescia): *Alcune considerazioni sulla stabilità dinamica*
- 14.45–14.55 Elena BONETTI (Milano): *Phase transitions models for shape memory materials*
- 15.00–15.10 Sara CASCIATI (Catania): *Alcuni aspetti del monitoraggio e del controllo della tensione nei cavi in ponti strallati*
- 15.15–15.25 Matteo STROZZI (Modena): *Internal resonances and nonlinear energy exchange of Single-Walled Carbon Nanotubes*
- 15.30–15.40 Ivana BOCHICCHIO (Salerno): *Modeling and steady states of a linear suspension bridge model*
- 15.45–15.55 Francesco PELLICANO (Modena): *Complex dynamics of circular cylindrical shells*
- 16.00–16.30 *coffee break*
- 16.30–16.35 *GADeS prize*
- 16.35–16.55 Valeria SETTIMI (Roma, Sapienza) winner of the GADeS prize: *Response robustness and safety against jump to contact in AFMs controlled via different techniques*
- 17.00–18.00 *GADeS assembly*

### September 16, 2016 — morning

- 9.00– 9.10 Angelo LUONGO (L'Aquila): *On the nonlinear effects of the damping destabilization paradox*
- 9.15– 9.25 Manuel FERRETTI (L'Aquila): *Weakly nonlinear dynamics of taut strings travelled by a single moving force*
- 9.30– 9.40 Daniele ZULLI (L'Aquila): *Instability phenomena in homogeneous models of multilayer tubular beams*
- 9.45– 9.55 Gianluca GATTI (Arcavacata di Rende): *Caratteristiche di uno smorzatore dinamico non-lineare*
- 10.00–10.10 Luca FACCHINI (Firenze): *An experimental survey of pedestrian-induced vibrations on Michelangelo's David*
- 10.15–10.25 Federica TUBINO (Genova): *Recent studies on serviceability analysis of footbridges*
- 10.30–11.00 *coffee break*
- 11.00–11.10 Giuseppe PICCARDO (Genova): *Aeroelastic instabilities in equivalent nonlinear beams*
- 11.15–11.25 Claudio MANNINI (Firenze): *Interferenza tra vibrazioni indotte da distacco di vortici e instabilità di galoppo trasversale: sperimentazione in galleria del vento e modellazione analitica per un prisma a sezione rettangolare*
- 11.30–11.40 Luca PIGOLOTTI (Firenze): *Comportamento post-critico di sistemi a due gradi di libertà per oscillazioni da flutter*
- 12.00–12.45 *Visit to the Materials Testing Lab “Pietro Pisa”*

## Participants and their email addresses

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