

## Important Dates

Abstract due: .....	30 Nov	2014
Notification of acceptance: ....	31 Jan	2015
Preliminary registration: .....	31 Jan	2015
Reduced fee payment: .....	31 Mar	2015
Regular fee payment: .....	4 May	2015
Opening of the Colloquium: .	24 May	2015
<b>Papers for Special Issue: .....</b>	<b>30 Sep</b>	<b>2015</b>

## Colloquium Fees

(welcome reception, coffee breaks, lunches, the social dinner, the excursion, etc.)\*

### *Euromech members:*

400 € (early, before 31 Mar 2015)  
450 € (regular, from 31 Mar to 4 May, 2015)

### *Euromech non-members:*

(include one year affiliation to Euromech)  
424 € (early, before 31 Mar 2015)  
474 € (regular, from 31 Mar to 4 May, 2015)

### *Ph.D. students:*

300 € (early, before 31 Mar 2015)  
350 € (regular, from 31 Mar to 4 May, 2015)

\* One fee per presentation

## Conference venue

The Euromech Colloquium [562] will be held on May 24-28, 2015, in Sperlonga (LT), a picturesque coastal village located between Naples and Rome. For more information, please see the website: [HTTP://WWW.COMUNE.SPERLONGA.LT.IT](http://www.comune.sperlonga.lt.it) where you can also find information on transportation alternatives.



## Abstracts submission

Extended abstracts (max. 2 pages) of your contributions should be prepared according to the Word Template, and submitted in the form of both Word and Pdf files via e-mail to

E-mails:

[sacasci@unict.it](mailto:sacasci@unict.it)

CC: [angelo.luongo@univaq.it](mailto:angelo.luongo@univaq.it)

**EUROPEAN  
MECHANICS  
SOCIETY**

**EUROMECH  
Colloquium [562]**

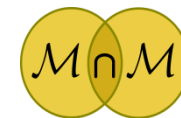
## *Stability and Control of Nonlinear Vibrating Systems*

May 24-28, 2015

SPERLONGA, ITALY



Organized by



*International Research Center M&MoCS*

*Website:* [HTTP://562.EUROMECH.ORG/](http://562.euromech.org/)

## Objectives

The aim of the proposed Colloquium is to bring together scientists with interest in the topics of Structural Stability and Structural Control.

In the past, several Euromech colloquia were held on these two topics but the two communities were kept separated. Bridging together the main results obtained on the common case-studies, such as flexible light structures and cables, might lead to interesting developments and will likely improve a common understanding of the state of the art and common terminology for both topics.

The focus is placed on nonlinear vibrating systems, where nonlinearity arises from the large oscillations induced by external excitation of stochastic or deterministic nature on the studied mechanical system. Applications in these areas will be welcome, as will cutting-edge research in interdisciplinary problems involving civil, mechanical and aerospace engineering.

## Topics

- Active and semi-active vibrations control for autonomous structures
- Adaptive structures and morphing
- Control in the presence of limited energy and energy harvesting techniques for control
- Control of lightly damped or highly flexible structures such as cables
- Convergence questions
- Mechanics and model-based control
- Multiparameter stability theory with mechanical applications
- Nonlinear Energy Sinks (NES)
- Non linear modes in vibrating problems
- Parametric resonance
- Singularities and bifurcations
- Smooth and non smooth non linear problems
- Stability analysis with symmetry
- Vibrations mitigation

## Sponsorships



City of Sperlonga (LT), Italy

<http://www.comune.sperlonga.lt.it//>

## Organizing committee

Angelo Luongo *Chairman*

[angelo.luongo@univaq.it](mailto:angelo.luongo@univaq.it)

Sara Casciati *Co-chairman*

[sacasci@unict.it](mailto:sacasci@unict.it)

*Local organizers*

Francesco D'Annibale

Manuel Ferretti

Ilaria Scognamiglio

Daniele Zulli

## Post-colloquium event

All Euromech colloquium participants who would like to extend their stay in Sperlonga are welcome to participate (as either presenters or observers) at the post-colloquium PRIN workshop on "Dynamics, stability, and control of flexible structures" which will take place on **May 28-29, 2015**, in Sperlonga.

For those wishing to present, presentation titles should be communicated before **November 30, 2014**, and can either provide an in-depth analysis of the former Euromech contribution, or cover a different topic in the same research field. For this event, a further fee of 80 euros will be added to the registration; it covers: 2 coffee breaks, 2 lunches, and 1 dinner.