

Euromech contact person:

Prof. Pedro Camanho (Portugal)

Scientific Committee:

Holm Altenbach (Germany)

Bala Balachandran (USA)

René de Borst (The Netherlands)

Matthew Cartmell (United Kingdom)

Paulo Goncalves (Brazil)

Daniel Inman (USA)

Claude-Henri Lamarque (France)

Stefano Lenci (Italy) – Chair

Giuseppe Rega (Italy)

Pedro Ribeiro (Portugal)

Tomasz Sadowski (Poland)

Subash Sinha (USA)

Jerzy Warminski (Poland) – Co-chair

Marian Wiercigroch (United Kingdom)

Local Organizing Committee:

Stefano Lenci

Fabrizio Davì

Lucio Demeio

Giovanni Lancioni

Michele Serpilli

Congress Secretary:

Monica Marinelli

Venue:

The Colloquium will be held in Senigallia (Ancona), Italy, a nice sea-side small city, close to Ancona, Italy, well-known for its beaches and for its cultural heritage.

For more information please see the website <http://www.comune.senigallia.an.it/senigalliaTurismoEn/index.html>, where you can also find information on transportations.



Senigallia can be accessed by plane (Ancona airport), train (from Rome, Milan, Bologne, etc.), bus and car.

The venue is the spectacular “Rotonda a Mare”, a picturesque building *on* the sea.



Euromech Colloquium n. 541

**New Advances in the Nonlinear
Dynamics and Control of
Composites for Smart
Engineering Design**

Senigallia (Ancona) – Italy

3-6 June 2013

Call for papers

www.dipmat.univpm.it/euromech541

contact: euromech541@univpm.it

Chair: *Stefano Lenci*
Polytechnic University of Marche
Email: lenci@univpm.it

Co-Chair: *Jerzy Warminski*
Lublin University of Technology
Email: j.warminski@pollub.pl

Dates:

Abstract due: 30 Nov 2012
Notification of acceptance: 31 Dec 2012
Preliminary registration: 31 Dec 2012
Reduced fee payment: 31 Jan 2013
Regular fee payment: 31 March 2013
Opening of the Colloquium: 3 Jun 2013
Papers for Special Issue: 30 Sep 2013

Colloquium fees:

(welcome reception, coffee breaks, 4 lunches, the social dinner, the excursion, booklet of abstracts, etc.)

Euromech members:

300 € (early, before 31 Jan 2013)
350 € (regular, from 31 Jan to 31 Mar 2013)

Euromech non-members:

(include one year affiliation to Euromech)
324 € (early, before 31 Jan 2013)
374 € (regular, from 31 Jan to 31 Mar 2013)

Ph.D. students:

(social dinner not included)
200 € (early, before 31 Jan 2013)
250 € (regular, from 31 Jan to 31 Mar 2013)

NOTES:

- 1) One fee per presentation;
- 2) Connection from/to Ancona airport arranged on request (not included in the fee);
- 3) Support for young researchers are planned and will be decided in due time;
- 4) A program for accompanying people will be arranged in due time.

Conference themes:

Submission of abstracts are solicited within the general area of the nonlinear dynamics of composites. Specific topics include, but are not limited to:

- *Modeling of the dynamics of composite materials and structures*
- *Vibrations problems*
- *Nonlinear dynamics and chaos*
- *Impact loading*
- *Inverse problems*
- *Nonlinear dynamics and vibrations of composites with active elements*
- *Control of the dynamics of composite materials and structures*
- *Vibration suppression and control with Shape Memory Alloys (SMA) or piezoelectric transducer (PZT)*
- *Multiscale approaches*
- *Analytical (nonlinear normal modes, multiple scale, etc.) and numerical (POD, etc.) techniques*
- *Experimental dynamics and techniques*
- *Multidisciplinary and multiphysics approaches for composites*
- *Signal processing and structural health monitoring*
- *High speed cutting of composite materials*
- *Smart applications of composite*

- *Dynamical response of functionally graded (FGM) and sandwich materials*
- *Nonlinear dynamics in fabrication processes*
- *Optimization*
- *Energy harvesting by composites structures and materials*
- *Applications of composites in robotics*

Sponsorships:

European Mechanics Society (Euromech)
www.euromech.org

Polytechnic University of Marche, Ancona, Italy
www.univpm.it

City of Senigallia, (Ancona), Italy
<http://www.comune.senigallia.an.it/senigalliaTurismoEn/index.html>

The Conference is organized within the Framework of the European Research Project “Centre of excellence for modern composites in applied aerospace and surface transport infrastructure”, CEMCAST FP7-245479.
<http://cemcast.pollub.pl/index>