



7TH INTERNATIONAL CONFERENCE ON

NONLINEAR VIBRATIONS, LOCALIZATION AND ENERGY TRANSFER

JULY 1-4 2019

Laboratory of Mechanics
and Acoustics
Marseille



<https://nnm2019.sciencesconf.org>

VENUE

The conference will be held at the Laboratory of Mechanics and Acoustics (LMA) located on the Marseille Provence Technology Park of Château-Gombert which gathers one of the Aix-Marseille University poles dedicated to sciences, the Centrale Marseille School of engineering and many high-tech firms and startups.



COMING TO MARSEILLE

Connection by high-speed trains from Paris, Nantes, Strasbourg, Brussels or Barcelona.
Shuttle from Marignane airport to Marseille city center (St Charles train station).

From the Vieux-Port or St-Charles (25min):

take Subway M1 to the terminus "La Rose", and then the Very-large Bus Shuttle B3B to the terminus "Technopole Château-Gombert".



SOCIAL PROGRAM

On Monday evening, a welcome reception will gather attendees in the LMA building.

On Wednesday afternoon, a boat trip will provide an opportunity to visit the beautiful Calanques between Marseille and Cassis, before the Gala Diner.



The purpose of this conference is to bring together scientists from around the world to promote exchange and discussions around the latest research developments in the area of nonlinear vibrations.

It is the seventh conference of the series and follows on from six successful conferences held in Fréjus (2004), Samos (2006), Roma (2009), Haifa (2012), Istanbul (2014) and Liège (2016).

It will cover the following topics:

- ▷ Nonlinear Normal Modes
& Forced Responses
- ▷ Nonlinear Energy Sinks
& Targeted Energy Transfer
- ▷ Identification & Reduced-Order Models
- ▷ Methods & Concepts
- ▷ Waves & Localization

A special session will also be dedicated to

- ▷ Nonlinear aspects in Musical Acoustics

SPONSORED BY



COMMITTEES

CHAIR PERSON

Prof. Bruno Cochelin
Dean of Research
Centrale Marseille engineering school

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C. Touzé	ENSTA ParisTech
A. F. Vakakis	Univ. of Illinois
K. Worden	Univ. of Sheffield

LOCAL ORGANIZING COMMITTEE

Sergio Bellizzi
Renaud Côte
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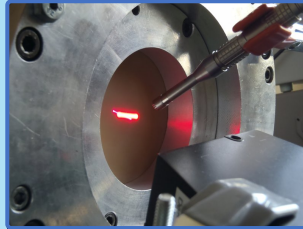
Contact:

nmm2019@sciencesconf.org

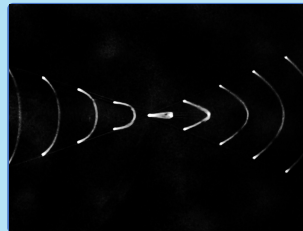
TOUR OF THE LABORATORY

On Tuesday and Thursday morning, two sessions are devoted to a visit of some of the experimental facilities and setups of the laboratory

*Nonlinear
Membrane Absorbers*

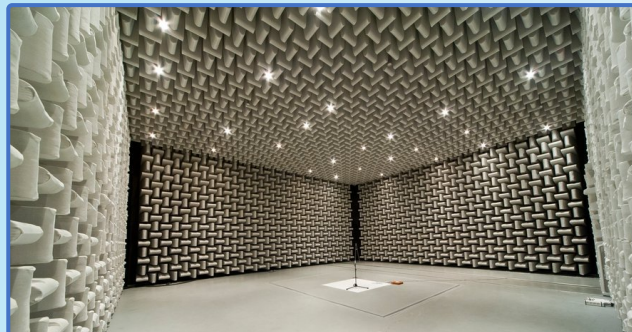


*Musical Acoustics
Experiments*



*Nonlinear modes of
a cantilever beam*

Semi-anechoic Chamber



KEYNOTES

Nonlinear System Identification: Current Status and Challenges Ahead

Gaëtan Kerschen
Aerospace and
Mechanical Eng. Dept.,
Univ. Liège, Belgium



Stochastic Design Optimization in Nonlinear Vibrations



Samy Missoum
Aerospace and
Mechanical Eng.,
Univ. Arizona, USA

Nonlinear Dynamics in Musical Acoustics: Characteristics, models and sound synthesis



Cyril Touzé
Institute of Mechanical Science
& Industrial Applications
ENSTA ParisTech, France