

Objectives

The Computational Structural Mechanics Association (CSMA) brings together the French community on Structural Mechanics. Since 1993, CSMA organizes every two years, on the peninsula of Giens in Var (France), the national symposium in computational structural mechanics. This conference gathers academic and industrial researchers, and software developers, to provide the state-of-the-art major topics as well as the emerging issues in the field. The 2017 edition will also give the opportunity to develop interactions with other disciplines. The presentations will take place in the context of thematic sessions and special symposia. Communications will be presented in oral form or as posters.

Important dates

May 2016 Submission of extended abstracts starts
October 2016 Deadline for abstract submission
February 2017 Author notification
31st March 2017 Deadline for registration at the preferential rate

Registration fees

	Until 31 st March	After 31 st March
Standard	920 €	1070 €
Student	550 €	700 €

Registration fees cover the full board accommodation and the 2017-2018 CSMA membership.

Secretary

All correspondence (information, participation, sponsor-ship) should be addressed by email to the secretariat:

Alexandra Joly, csma2017@sciencesconf.org
Laboratoire de Mécanique des Solides
École Polytechnique
91128 Palaiseau Cedex (France)
Phone : +33 1 69 33 57 03

csma2017.sciencesconf.org



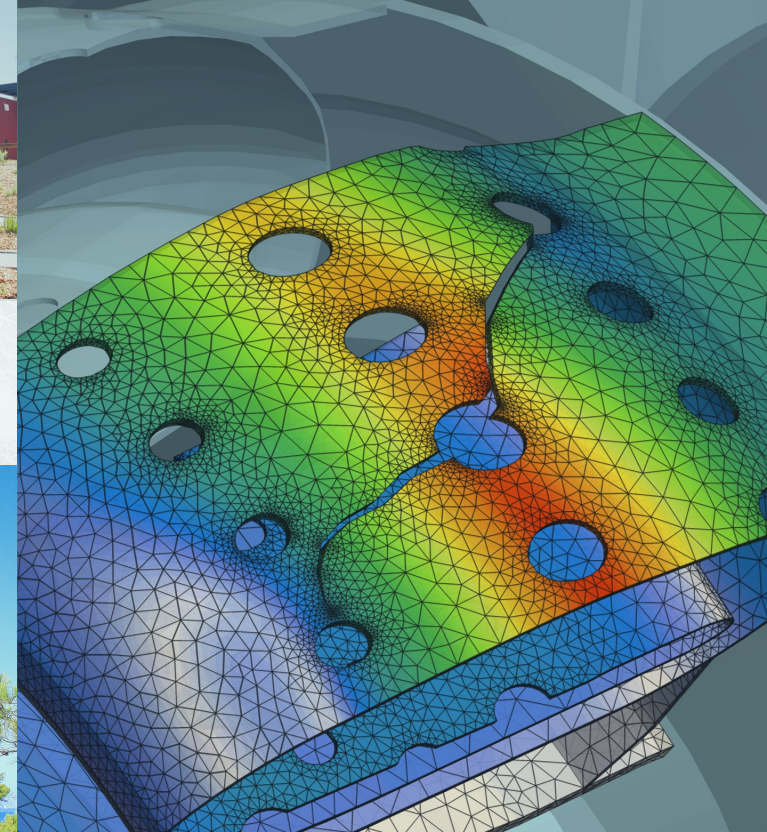
The CSMA 2017 Conference will be held at the Belambra center of Giens peninsula in Var. At the heart of a pine forest of 35 hectares, on the seafront with beautiful views of the islands of Porquerolles, Port-Cros and Le Levant.



Organisers



*CNRS, CEA, EDF, Onera,
Université Paris-Saclay,
École Polytechnique,
ENSTA ParisTech*



CSMA 2017

*13th National Conference
on Computational
Structural Mechanics*

*15–19 May 2017, Giens (Var), France
csma2017.sciencesconf.org*



Topics

- **Structures**
slender structures, composite structures, civil engineering structures, architected materials
- **Lifetime of structures**
ageing, damage, fracture, fatigue, wear
- **Models control**
identification, reduction, coupling, multi-scale
- **Biomechanics and life engineering**
biomaterials, biomimicry, cellular, tissue, nanotechnology
- **Multi-physics**
thermal, electric, chemical, metallurgical, geotechnical, couplings and fluid structure interaction
- **Interfaces**
behavior, contact, moving boundaries

Mini-symposia

- **Shape optimisation**
P.-A. Boucard, L. Rota
- **Interactions between computational and experimental approaches**
J. Réthoré, V. Chiaruttini
- **Non linear vibrations**
C. Touzé, O. Thomas
- **Stunning computations in fluids, materials and structural mechanics**
P. Gosselet, P. Massin
- **Behavior of civil engineering structures**
F. Voldoire, L. Jason
- **Fatigue, damage and fracture**
H. Maitournam, P. Le Tallec

Software session

The 13th symposium includes the now traditional software session on Wednesday evening. It is the perfect opportunity to present your new software developments (whether open source or commercial) to the French community of computational structural mechanics. A demonstration area will be available for participants to present their software.

The presentation to the software session requires full registration which includes access to the conferences, the conference proceedings, accommodation and full board (from Monday to Friday lunchtime), coffee breaks, Thursday night banquet and boat trip to Porquerolles or recreational activities. Acceptance will be based both on the technical quality of the summary, the innovative aspects highlighted and interest in the community of computational structures.

Publications

A selection of papers will be published in AMSES :

<http://www.amses-journal.com>

Plenary lectures

Six plenary lectures will be given by prominent international researchers on every topic of the mini-symposia.

A night session lecture will be given the opening day.

Scientific Committee

- **Olivier Allix, president**
LMT-Cachan, ENS Cachan, Université Paris-Saclay
- **Laurent Rota, vice-president**
PSA Peugeot-Citroën
- **Patrick Le Tallec, vice-president**
LMS, École Polytechnique, Université Paris-Saclay

The quality and interest of accepted communications are ensured by an international committee of 20 worldwide french speaking personalities and a national committee of 90 researchers in structural mechanics.

Details concerning these committees are available on the web site of the conference :

csma2017.sciencesconf.org

Organizing committee

- Patrick Massin, (IMSIA, EDF), *President of CSMA 2017*
- Sylvie Audebert (IMSIA, EDF)
- Christophe Bovet (Onera)
- Vincent Chiaruttini (Onera)
- Olivier Fandeur (IMSIA, CEA)
- Martin Genet (LMS, X)
- Ludovic Jason (IMSIA, CEA)
- Alexandra Joly (LMS, CNRS, X)
- Patrick Le Tallec, (LMS, X)
- Habibou Maitournam (IMSIA, ENSTA)
- Alexandre Martin (IMSIA, CNRS)
- Boumedienne Nadjar (IMSIA, ENSTA)
- Kim Pham (IMSIA, ENSTA)
- Noémie Rakotomalala (Safran Tech)
- Cyril Touzé (IMSIA, ENSTA)