



**Location,  
Registration, Others**

DISS\_19 will take place at the Auditorium ANCE Via Alcide de Gasperi, 60, 67100 L'Aquila, which can host up to 150 people, and is equipped with modern multimedia technology.

Payment to IBAN IT69B-02008-05302-000105666049, Unicredit Bank, for "WORKSHOP DISS\_19", about:

- a) Presenting Author, including presentation, n.1 PFC, lunch, coffee breaks € 200/paper
- b) Workshop attendance only Free Admission
- c) PFC to be requested to Professional Orders, with lunch and coffee breaks € 50/person

As in the past, the Workshop will be completed by a post-workshop-tour at the National Museum of Abruzzo (MunDA), on November 30<sup>th</sup> 2019.

**University of L'Aquila  
Dept. of Civil, Architecture and  
Environmental Engineering  
(DICEAA)**

**University of Roma Tre  
Dept. of Architecture**

**DYNAMIC INTERACTION  
OF SOIL AND STRUCTURE  
(DISS\_19)**

**The 6<sup>th</sup> International  
Workshop  
L'Aquila, November 28-29  
2019**

**ORGANIZING COMMITTEE**  
Angelo Luongo, Dante Galeota,  
Maria Alicandro, Donatella Dominici,  
Gino D'Ovidio, Marco Tallini,  
Gianfranco Totani, Gianfranco Valente

**SCIENTIFIC COMMITTEE**  
Carlo Baggio, Giorgio Monti,  
Yutaka Nakamura, Camillo Nuti,  
Silvia Santini

**ORGANIZING SECRETARY**  
[maria.alicandro@univaq.it](mailto:maria.alicandro@univaq.it)  
+39.320.6222362



# Call for Papers

The Authors are kindly requested to respect the following date precisely:

1) October 10th 2019, submission of one page **ABSTRACT** with title, names of Authors, affiliation, keywords to [info@diss-co.it](mailto:info@diss-co.it);

2) November 10th 2019, sending of the full paper with length up to 20 pages;

3) in the Workshop day, signature of the "*Authorization to Personal Data Treatment and Transfer of Publication Rights*", giving the Committees the PowerPoint with slides in English, and the oral presentation in Italian or English.

On March 31 2020, about Proceedings DISS\_19:

a) the Ebook will be published at [www.diss-co.it](http://www.diss-co.it) with index ISSN and ISBN;

b) they will be submitted to SCOPUS.

The Proceedings DISS\_17 are under reviewing by SCOPUS.

The Proceedings of the previous n. 4 Workshops can be freely downloaded at [www.diss-co.it](http://www.diss-co.it).



## Topic of the Workshop:

### *Ten years after the L'Aquila earthquake of April 6<sup>th</sup> 2009 The rebuilding of monuments and infrastructures*

At 3:32 a.m. of April 6, 2009, a Mw 6.3 earthquake struck the town of L'Aquila and the surrounding in Central Italy, causing 309 casualties. The shake was characterized by maximum MCS Intensity IX-X and maximum peak ground acceleration 0.66 g. The mainshock was preceded by a swarm, started at the end of 2008. Within the first three weeks, over 4,000 aftershocks occurred, 7 of which with magnitude greater than Mw 5.0. The effects were devastating, due to the population density in the stricken area, the epicenter being located just few kilometers far from the center of L'Aquila, a city with about 75,000 inhabitants and an important historical center. Many buildings were severely damaged and collapsed, with a tremendous impact on the monuments.

One of the most important causes of structures damage is inaccuracy in estimating earthquake excitation characteristics during the design phase.

It is well known that many of the buildings in L'Aquila were built well over a hundred years ago. Hence the earthquake acted upon a variety of structures, some only designed for vertical loads whilst others with no structural design at all. It is therefore reasonable to expect that the majority of structures experienced some damage.

Ten years after the earthquake, it is time to carry out an in-depth analysis and synthesis on the reconstruction phase in L'Aquila in terms of results, experiences, methods of intervention, prevention, technologies and cultural approach.

