



UNIVERSITÀ DI PISA

SCUOLA DI DOTTORATO IN INGEGNERIA “Leonardo da Vinci”

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Sede amministrativa presso il Dipartimento di Ingegneria Civile e Industriale

A V V I S O D I S E M I N A R I O

Nell’ambito delle iniziative promosse dalla
Scuola di Dottorato in Ingegneria “Leonardo da Vinci”, d’intesa con il
Dottorato Internazionale in Ingegneria Civile e Ambientale

Paulo LOURENÇO

Full Professor presso il Dipartimento di Ingegneria Civile dell’Università di Guimarães
(Portogallo)

Lunedì 14 settembre alle ore 11 terrà un seminario dal titolo

“Masonry and Cultural Heritage: A Success Story from High Level Research, Professional Practice and Innovation”

Sommario. Innovation is one of the most relevant characteristics of European societies, as a knowledge based society. First, the innovation ecosystem at University of Minho is briefly characterized and the general activity of the Institute for Sustainability and Innovation in Structural Engineering is briefly addressed. Then, the activity on historical and modern masonry structures is addressed. Modern societies understand built cultural heritage as a landmark of culture and diversity. Only during the last decades the idea that ancient buildings could be conserved and reused became appealing. Large investments have been concentrated in this field, leading to impressive developments in the areas of inspection, non-destructive testing, monitoring and structural analysis of historical constructions. These developments, and recent guidelines for reuse and conservation, allow for safer, economical and more adequate remedial measures. The presentation first addresses the issues of the methodology to adopt, of different cases studies and of present challenges. For modern structural masonry, the use of unreinforced, confined and reinforced masonry is briefly addressed, discussing the influence of seismic hazard and presenting different solutions adopted in developed countries. Recent research on building systems for modern masonry structures is presented, together with conclusions on the performance of the system for in-plane lateral loading. Finally, the performance of masonry infills and recent shaking table tests in Portugal are also presented.

Il seminario, della durata di circa 2 ore, sarà tenuto nell’Aula Pacinotti

Referenti dell’invito: Walter Salvatore, Silvia Caprili.

Pisa, 8 settembre 2015.

Il Direttore della Scuola
(Prof. Ing. Stefano Bennati)