

in collaboration with



ICOD EURO-MEDITERRANEAN CENTRE ON INSULAR COASTAL DYNAMICS (La Valletta, Malta)

**Doctoral Course on
THE FUTURE OF CULTURAL HERITAGE IN SMART CITIES:
*Ravello (Italy) 6-9 October 2014***



The 2014 Programme of the Ravello Course has the specific focus on “**The future of Cultural Heritage in Smart Cities**”. The Course will combine understanding of the impact of Climate Change on Cultural Heritage with the development of cities that need to be “smart” in order to flourish in the 21st century.

The Course will therefore consider the pressures that climate and air quality exert on historic materials and structures and how innovative approaches to making cities “smart”, can influence the Cultural Heritage in its urban setting.

Topics:

- The concept of Smart Cities and whether it includes Cultural Heritage
- Mitigation and adaptation strategies, including nanoscience application, to protect Cultural Heritage from Climate Change, starting with the impact of urban pollution on Cultural Heritage
- Information and innovation technologies and energy issues and Cultural Heritage, starting from the lessons we can learn from the past, asking the rhetorical question of why historic cities are smart cities and how historic cities can adapt to new renewable energy technologies as the “smart” or clever way of adapting to the future.
- Energy requirements of historic buildings within the concept of Smart Cities
- The macro-scale of cultural tourism and visitors’ expectations of Cultural Heritage in Smart Cities, and how our Built Heritage must adapt to face the double challenge of catastrophic events in a Smart City context.

Venue : European University Centre for Cultural Heritage, Ravello, Italy.

Period: 6-9 October 2014.

Participants: maximum 30 people.

Addressed to: scientists, architects, engineers, conservators, urban planners.

There is *no registration fee*.

The organisation has the possibility to support the participation of 20 students with a reimbursement of € 300 (at the maximum) of their participation expenses, after presentation of receipts. The selection for grant will be done by the organisers.

On request, students may benefit of *3 ECTS* (European Credit Transfer System) after agreement with their own university.

Deadline for application: 30 June 2014

Information and application forms:

European University Centre for Cultural Heritage, Villa Rufolo, I-84010-Ravello, Italy, www.univeur.org / univeur@univeur.org

PLANNING

2014	Monday 6 October	Tuesday 7 October	Wednesday 8 October	Thursday 9 October
9.30-10.45	<ul style="list-style-type: none"> - Introduction <i>R. A. Lefèvre, Director of the Course, University Paris Est Créteil, France</i> <i>C. Sabbioni, co-Director of the Course, CNR-ISAC-Bologna, Italy</i> <i>E. Apicella, Secretary General, CUEBC, Ravello, Italy</i> - Does the concept of “Smart Cities” include Cultural Heritage? <i>C. Sabbioni</i> 	<ul style="list-style-type: none"> -Learning lessons from the past: why historic cities are Smart Cities, including renewable energy <i>C. Iwaszkiewicz</i> 	<ul style="list-style-type: none"> - Archaeological sites in the cities <i>J. Cassar</i> 	<p><i>8.00</i></p> <p><i>Departure to Naples Railway Station and Airport</i></p>
11.00-12.15	<ul style="list-style-type: none"> - Climate Change and Air Quality Impact on Cultural Heritage <i>C. Sabbioni</i> 	<ul style="list-style-type: none"> - Smart cities and transport <i>C. Bertoli</i> 	<ul style="list-style-type: none"> - Built Heritage resilience and adaptation in the face of floods and landslides <i>M. Drdacky</i> 	
14.00-15.15	<ul style="list-style-type: none"> - Mitigation and adaptation strategies for Cultural Heritage resilience in Smart Cities <i>A. Bonazza</i> 	<ul style="list-style-type: none"> - Green economy related to construction and smart <i>C. Iwaszkiewicz</i> 	<p>WORKSHOP</p> <ul style="list-style-type: none"> -Case studies: How towns may evolves in Smart Cities including Cultural Heritage as an added value? <i>C. Sabbioni, A. Bonazza, C. Iwaszkiewicz</i> 	
15.30-17.00	<ul style="list-style-type: none"> - Nanoscience and nanotechnology for Cultural Heritage conservation in Smart Cities <i>L. Dei</i> 	<ul style="list-style-type: none"> -Indoor management for Cultural Heritage <i>D. Camuffo</i> 		
17.00-17.30		<ul style="list-style-type: none"> -WORKSHOP Introduction <i>C. Sabbioni, A. Bonazza, C. Iwaszkiewicz</i> 		