

BIO | CULTURAL 2015

International Conference **Sustainability in Architectural Cultural Heritage**

Conference Programme

Crowne Plaza Hotel
Limassol, Cyprus
11–12 December 2015

Goal & Theme

BIOCULTURAL 2015 is an international conference on issues of sustainability in architectural cultural heritage. The conference themes aim to further develop the discourse and debate on sustainable sensitive approaches in the rehabilitation of architectural cultural heritage and the potential application of its sustainable design and planning practices on contemporary architecture. Interdisciplinary approaches, which raise different problems, questions and methodologies that utilize the environmental, social and economic challenges of the built environment at various scales, such as the urban and rural settlements and neighbourhoods, buildings and building envelopes and architectural components/materials are sought in the presentations and papers. BIOCULTURAL 2015, through the contribution of academics, researchers, post-graduates, practitioners and policy makers hopes to highlight solutions and future challenges for a more sustainable architecture, based on low energy requirements, local resources, adaptation to climate and landscape and socio-economic well-being of local communities.

Keynote Speakers



Kleo Axarli is Professor at the School of Architecture, Aristotle University of Thessaloniki and Director of the Architectural Technology Laboratory which is an accredited and European Union Notified Laboratory for building materials and products tests for thermal and sound insulation.



Mariana Correia is the President of the Board of Directors at Escola Superior Gallaecia, Portugal and Director of CI-ESG Research Center at ESG. She is also international consultant since 2010 for ICOMOS, regarding assessment of World Heritage Sites.



Antonia Moropoulou is a full Professor at the National Technical University of Athens, School of Chemical Engineering. She is a world class expert in materials and conservation interventions in the protection of monuments. She is also the Vice President of the Technical Chamber of Greece and the Vice President of the European Society for Engineering Education.

Conference Programme

Friday December 11th 2015

8:30–9:00 Registration

9:00–10:20 **Welcome Ceremony – Opening Session** [Room Westminster A]

Vice Dean of Engineering, University of Cyprus

– Associate Prof. S. Christodoulou

Vice president of Technical Chamber of Greece

– Prof. A. Moropoulou

President of Technical Chamber of Cyprus – Mr S. Achiotis

President of Cyprus Architects Association – Mr C. Christodoulou

President of ICOMOS Cyprus – Mr C. Pissarides

President of Cyprus Architectural Heritage Organization

– Mr M. Apostolides

Department of Town Planning and Housing, Cyprus – Mrs E. Hadjisavva

Department of Antiquities, Cyprus – Mrs E. Fiouri

Chair of Biocultural 2015 Conference – Assistant Prof. M. Philokyprou

10:20–10:40 Coffee Break

10:40–11:25 **Keynote Speaker: Prof. Kleo Axarli** [Room Westminster A]

11:25–13:10 **Session 01** [Westminster A]

13:10–14:20 Lunch

14:20–15:05 **Keynote Speaker: Prof. Antonia Moropoulou** [Room Westminster A]

15:05–16:50 **Session 02** [Room Med Parlour], **Session 03** [Room Westminster A]

16:50–17:10 Coffee Break

17:10–19:10 **Session 04** [Room Westminster A]

20:00 **Conference Dinner** [Crowne Plaza – Venue]

Saturday December 12th 2015

9:00–9:45 **Keynote Speaker: Prof. Mariana Correia** [Room Westminster A]

9:45–11:15 **Session 05** [Room Westminster A]

11:15–11:35 Coffee Break

11:35–13:20 **Session 06** [Room Westminster B], **Session 07** [Room Westminster A]

13:20–14:30 Lunch

14:30–14:40 **Best Papers Awards** [Room Westminster A]

14:40–16:00 **Round Table Discussion** [Room Westminster A]

Chaired by: M. Correia

K. Axarli, E. Fiouri, E. Hadjisavva, A. Michael, A. Moropoulou,

A. Nikolopoulou, M. Philokyprou

Session 01 Friday December 11th

[Room Westminster A]

10:40–11:25 **Keynote Speaker: Prof. Kleo Axarli**
The "Innovative" Past and the Modern Bioclimatic Principles

11:25–13:10 Session 01
Chaired by: Andreas Savvides & Ioannis Ioannou

11:25–11:40 Design, construction and bioclimatic features of the timber-roofed basilicas of Cyprus (15th-19th century)
M. Pelekanos

11:40–11:55 Architectural cultural heritage and sustainability: how many pillars?
R. Moiola

11:55–12:10 The contribution of semi-open spaces in the thermal performance of vernacular rural architecture in Cyprus
S. Thravalou, M. Philokyprou, A. Michael, A. Savvides

12:10–12:25 Social and economic aspects of sustainability – Tools for heritage conservation
G. Constantinides

12:25–12:40 Thermal behavior of historic and traditional Post Byzantine buildings in Greece
E. Alexandrou

12:40–12:55 Traditional Street Space of “Chang” in Sichuan Basin, China
H. Wang

12:55–13:10 Discussion

First Parallel Session: Session 02 Friday December 11th

[Room Med Parlour]

14:20–15:05 **Keynote Speaker: Prof. Antonia Moropoulou**
Cultural Heritage as a Driver of Sustainable Architecture

15:05–16:35 **First Parallel Session – Session 02**
Chaired by: Nasso Chrysochou & Marinos Ioannides

15:05–15:20 Drones above the stones: a new aerial approach in large scale documentation and modelling of architectural heritage
M. Katsaros, M. Christofi, M. Bacharidou, P. N. Dimitriou, M. Naki

15:20–15:35 A new approach for documenting architectural cultural heritage: the case study of Asinou church in Cyprus
K. Themistocleous, M. Ioannides, A. Agapiou, D. Hadjimitsis

15:35–15:50 Albergho diffuso. An innovative method for the sustainable development of rural settlements. The possibilities for its application in Cyprus
E. Limbouri

15:50–16:05 Adaptive reuse of historic breweries in London; bringing industrial buildings into today's lifestyle
D. Parpas

16:05–16:20 Rehabilitating an Important Architectural and Cultural Heritage: Interdisciplinary Approaches at Ibrahim's Khan
N. & C. Theodoulou, S. Bagiartaki, M. Prokopiou, C. Lambrou

16:20–16:35 Change of a medieval estate into a recreational place
C. Kamenou

16:35–16:50 Discussion

First Parallel Session: Session 03 Friday December 11th
[Room Westminster A]

15:05–16:35

First Parallel Session – Session 03
Chaired by: Panayiota Pyla & Kleo Axarli

15:05–15:20

Heritage values and sustainable development: the case of the modern heritage in Cyprus
E. Siandou

15:20–15:35

Architectural historiography and database design: an alliance to empower research in modern heritage
P. Phokaides, P. Andreou, G. Antoniou, P. Pyla, G. Samaras

15:35–15:50

Long-term community spirit due to concrete? Terraced Housing of the Booming Years
C. Volberg

15:50–16:05

Invigorating architectural qualities as a key strategy for holistic building energy renovation
E. Eliopoulou, M. Santamouris

16:05–16:20

Spatial gradation for refurbishment of architectural heritage
Z. Kresevic

16:20–16:35

BIO (bioclimatic innovative organizations) Courtyards in Cyprus
Y. Hadjichristou

16:35–16:50

Discussion

Session 04 Friday December 11th

[Room Westminster A]

17:10–19:10 Session 04

Chaired by: Anna Papadopoulou & Petros Lapithis

17:10–17:25 Sustainability and ecology of cultural landscapes. The case of fishing shelter and the Liopetri Riverbank, Famagusta, Cyprus
A. Zomas, E. Mitakou, A. Michael

17:25–17:40 Ancient towers on Naxos Island, Greece: a sustainable environment
A-M. Vissilia, J. Georgi

17:40–17:55 Architectural heritage management issues: identification – protection – integration – sustainability
E. Konstantinidou

17:55–18:10 Environmental aspects of the vernacular architecture of NW Greece. The settlement of Psarades
F. Bougiatioti, M. Papagiannakis, A. Oikonomou

18:10–18:25 Land-planning models in the historical Cretan landscape, the case of Mirabello and Viannos
E. Moutsopoulou, N. Skoutelis

18:25–18:40 Landscape and sustainability: traditional architecture and nature in 'Montes de Toledo', Spain
A. D. Puerto García

18:40–18:55 Exploration of culture on blocks and dwelling form in Modern Hankou
G. Chen

18:55–19:10 Discussion

Session 05 Saturday December 12th

[Room Westminster A]

9:00–9:45 **Keynote Speaker: Prof. Mariana Correia**
Conservation in Cultural Heritage:
Criteria and Methodology of Intervention

9:45–11:15 Session 05
Chaired by: Christos Chatzichristou & Eleni Alexandrou

9:45–10:00 Morphological evolution of settlements in Mediterranean islands.
Climatic response and energy performance
E. Andreou, K. Axarli

10:00–10:15 Historical and sustainable sensibilities: a socio-cultural
speculation within architectural education
A. Papadopoulou, P. Lapithis

10:15–10:30 The bioclimatic in award winning houses as a form of heritage in
contemporary Cypriot architectural culture
C. Chatzichristou, E. Kranos

10:30–10:45 Cultural heritage and industrial architecture in coastal public
spaces. An educational approach to sustainable design
B. Ioannou, N. Chysochou

10:45–11:00 Architectural design and environmental behavior of traditional
buildings in mountainous regions. The case of Askas settlement,
Cyprus
E. Malaktou, M. Philokyprou, A. Michael, A. Savvides

11:00–11:15 Discussion

Second Parallel Session: Session 06 Saturday December 12th
[Room Westminster B]

11:35–13:20 **Second Parallel Session – Session 06**
Chaired by: Byron Ioannou & Yiorgos Hadjichristou

11:35–11:50 Experiments in place-making: re-thinking Pafos for 2017
E. Dova, A. Sivitanidou, Y. Koutsolambros

11:50–12:05 The bioclimatic aspect of the British Colonial Architecture in
Cyprus
A. Christou, M. Philokyprou, A. Michael

12:05–12:20 Catching water: traditional water-collecting and storing
structures at Meganisi
L. Koutsoumpou, N. Galanidou

12:20–12:35 Water management in traditional drystone
A. Pitta

12:35–12:50 Soil management and biodiversity in traditional anthropogenic
landscape
A. Theodosiou

12:50–13:05 Sustainable conversion of historic buildings in Cuba: the case of
Santo Domingo de Atares Castle, Havana
R. Schiano-Phan, T. Q. Campana

13:05–13:20 **Discussion**

Second Parallel Session: Session 07 Saturday December 12th
[Room Westminster A]

11:35–13:20	Second Parallel Session – Session 07 Chaired by: Paris Fokaides & Aineias Oikonomou
11:35–11:50	On the use of commercial Phase Change Materials in lime-based plasters M. Theodoridou, D. Michael, Z. Zaopoda, L. Kyriakou, I. Ioannou
11:50–12:05	Architectural structure and environmental performance of the traditional buildings in Northern Greece A. Oikonomou
12:05–12:20	Investigation of the influence of night ventilation on indoor thermal conditions in rural vernacular architecture of Cyprus D. Demosthenous, A. Michael, M. Philokyprou
12:20–12:35	The courtyard as a bioclimatic element in the historical centre of Nicosia E. Kyritsi, K. Liapi
12:35–12:50	Ethnography as part of architectural praxis within a community-driven construction project in Ghana M. Panta
12:50–13:05	Low energy use interventions in rehabilitation of built Architectural Cultural Heritage: challenges and options for sustainable practices O. K. Akande, D. Odeleye, A. Coday, C. Jimenez-Bescos
13:05–13:20	Discussion

Thank you for participating in the Biocultural 2015 Conference



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