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EUROPEAN AND MEDITERRANEAN MAJOR HAZARDS AGREEMENT
(EUR-OPA)

THE FRENCH MINISTRY OF CULTURE AND COMMUNICATION
(MCC)

EUROPEAN UNIVERSITY CENTRE FOR CULTURAL HERITAGE
(CUEBC)

With the support of ICOMOS-Italy

International Workshop

“CULTURAL HERITAGE FACING CLIMATE CHANGE:
EXPERIENCES AND IDEAS FOR
RESILIENCE AND ADAPTATION”

Villa Rufolo, Ravello, Italy

18-19 May 2017

DRAFT PROGRAMME

Concept Note

Climate change is a growing threat to cultural heritage in Europe and elsewhere. Floods, strong storms, heat waves, extreme rain, drought and landslides are likely to increase in the future depending on latitude. This will affect monuments, archaeological sites, historical cities, museums, collections and libraries alike. The foreseen rise in sea level causing coastal erosion and invasion of continental zones by salty marine waters are certain to affect the rich coastal heritage. Higher mean temperatures will increase bio-deterioration and cause defrosting of permafrost, affecting fragile arctic cultural heritage, often made of wood. Other assets are at risk.

During the last decade the European scientific community has focused its work in defining and analysing the threats and impacts of climate change on different items of cultural heritage. The European Commission funded, among others, two important projects on the topic entitled *Noah's Ark* (2003-2007) and *Climate for Culture* (2009-2014). In 2008 the Council of Europe commissioned a report on the *Vulnerability of Cultural Heritage to Climate Change* and organised in 2009 in Ravello the first International Workshop on "*Climate Change and Cultural Heritage*" that resulted in a Recommendation of the Committee of Permanent Correspondents of the EUR-OPA Major Hazards Agreement in which states were asked to identify those cultural assets at higher risk from climate change, promote emergency planning for most vulnerable sites, promote training among heritage professionals and integrate cultural heritage into climate change adaptation policies. The Council of Europe funded from 2009 to 2015 a series of doctoral courses and training on the topic carried out in cooperation with the University Paris-Est Créteil at the European University Centre for Cultural Heritage in Ravello.

Climate Policies are different in 2017, after the publication of the *5th Assessment Report of IPCC* (2013-2014), which for the first time mentioned the need to take care of cultural heritage in climate adaptation policies and after the guidance and commitments of the Climate *COP 21* of Paris (2015).

Have states done their homework and identified cultural heritage items at risk from climate change? Have European states developed a "climate strategy" for their cultural heritage? Do national climate change adaptation policies deal with risks to cultural heritage? What experiences have there been since 2009, what are the shortcomings? Has the scientific community responded with technical solutions to present and future problems? Have cultural heritage professionals been made aware of the problem in the years to come? Has there been training for professionals? Have budgets been mobilised to deal with the problem?

To answer these and other questions the Council of Europe, in cooperation with the Ravello Centre and the French Ministry of Culture and Communication, and with the support of ICOMOS-Italy and ICOMOS-France, is organising a workshop in 2017 in which we should like to give the word to a wide array of people: scientists involved with cultural heritage, government experts, teachers and researchers, curators, people involved in management and conservation of cultural heritage, local authorities, non-governmental organisations interested in cultural heritage, decision makers, managers of cultural routes, people working on landscapes issues and other stakeholders. It will be worth knowing if the recommendations made in 2009 have been a useful guide for governmental action, take stock of the current situation, and to discuss what should be the prospects and priorities for cultural heritage risk reduction for the next decades. We would also like to identify new initiatives which could possibly be undertaken by the Council of Europe in collaboration with partner organisations and member states, in order to ensure synergy with on-going European and national actions.

Introduction

Cultural heritage is a major element of the history and identity of societies, contributing to their economy and well-being. Natural, anthropic and technological hazards have been, together with war, main sources of destruction or degradation of cultural assets. Earthquakes, floods, coastal storms, extreme weather conditions, subsidence, and landslides have taken a heavy toll on historical buildings, archaeological sites, libraries, art collections, etc; to those traditional hazards we have to add a new major risk: climate change. Focus on its impact on cultural heritage is still patchy, lacking strong policies.

Objectives

The workshop presents an opportunity to debate the effects of changing climatic parameters on material and structural characteristics of cultural heritage among scientists, experienced users and policy makers. The workshop also aims to produce guidelines for governments, other institutional actors, NGOs and experts on how to better integrate climate change considerations and prevision in the protection and maintenance of cultural heritage.

The workshop will be an opportunity to present results of current work in this field and make proposals for research to identify heritage at risk and preventive measures or action and co-operation.

Participants

The workshop will bring together leading scientists, government officials and experienced users in the challenging field of predicting, modeling and proposing mitigation and adaptation strategies to measure and/or limit the impact of climate change on cultural heritage.

Participation is open to interested experts. No fee will be requested from participants and attendees are expected to cover their own travelling and subsistence expenses, unless otherwise informed.

Languages

The workshop will be conducted in English and French, with slides in English. Simultaneous translation will be provided.

Organisers

The Council of Europe, Strasbourg, France, the French Ministry of Culture and Communication, Paris, and the European University Centre for Cultural Heritage (CUEBC), Ravello, Italy. All correspondence should be directed to both the Council of Europe, Mechthilde Fuhrer (Mechthilde.fuhrer@coe.int) Catherine Emezie (Catherine.emezie@coe.int) and CUEBC (univeur@univeur.org).

Advisory Committee

Professor Roger-Alexandre Lefèvre (University of Paris XII), Dr. Cristina Sabionni (ISAC-CNR, Bologna).

Programme

The programme is only indicative. There is room for new oral presentations on the topics mentioned. The workshop will permit to examine how governments in the last years have been sensitive to the threat of climate change on cultural heritage and how this would have been integrated into climate change strategies. The workshop aims to also gather

experiences from different practitioners and provide an opportunity to present new ideas and proposals for research and action.

Publication

The full texts of contributions will be published in a special issue of the series "Sciences and Materials of Cultural Heritage" at the CUEBC.

Draft Programme

DAY 1

Thursday 18 May 2017

09:00 – 09:30

Registration

SESSION 1

INTRODUCTORY SESSION

09:30 – 10:00

Opening by the organisers
Cultural heritage in the context of a changing climate:

*Co-chairs: Alfonso Andria, CUEBC
Eladio Fernández-Galiano, Council of Europe
Maurizio di Stefano, ICOMOS Italy*

10:00 – 10:30

Keynote speech: cultural heritage in the context of a changing climate:
aims of the workshop

Cristina Sabbioni, ISAC-CNR, Bologna

10:30 – 10:50

Coffee break

10:50- 12:30

Cultural heritage in national strategies for adaptation to climate change;
two examples

*Alessandra Bonazza, ISAC-CNR, Bologna: Cultural heritage in the Italian national strategy for adaptation to climate change
Roger-Alexandre Lefèvre, Université Paris-Est Créteil: Le patrimoine culturel dans le plan national français d'adaptation au changement climatique*

12:30– 14:00

Lunch

SESSION 2

EXPERIENCES OF THE PAST 10 YEARS: TAKING STOCK

[What is being done? What are the shortcomings? The state of knowledge about threatened heritage?]

Round table 1: Some examples of recent developments in cultural heritage and climate change

14:00 – 15:40

*Chair: Emanuela De Menna, European Commission DG R&D, Bruxelles
Rapporteur: Mechthilde Fuhrer, Council of Europe*

Speakers:

- *Peter Brimblecombe, School of Energy and Environment, City University of Hong Kong: Small changes in climate - large impacts on heritage*
- *Antonio Gomez-Bolea, University of Barcelona: Bio-deterioration vs bio-protection of stone monuments under warmer atmosphere*
- *Johanna Leissner, Fraunhofer Sustainability Network, Germany: Experiences of the past 10 years, taking stock: EU project climate for culture (2009-2014) on the impact of climate change on cultural heritage buildings*
- *Tuija Mikkonen, Ministry of the Environment, Helsinki. Cultural Environment as a Resource in Climate Change Mitigation and Adaptation*

15:40 – 16:00

Coffee break

16:00 - 17:45 Round table 2: Vulnerability and threat at European and global level
Chair: Erminia Sciacchitano, European Commission, Brussels
Rapporteur: Johanna Leissner, Fraunhofer Sustainability Network Germany

Speakers:

- *Lukas Bratasz, Yale University, USA.* Impact of climate change on clay and organic materials
- *Jean-Michel Sainsard, Ministère de la Culture et de la Communication, Paris:* l'adaptation des parcs et jardins historiques au changement climatique
- *Elena Korka, Antiquities and Cultural Heritage, Hellenic Ministry of Culture and Sports.* Natural disasters and risks in world heritage monuments of Greece
- *Dario Camuffo, ISAC-CNR, Padova,* Climate-related challenges for Venice: lessons from the past, solutions for the future?

DAY2 Friday 19 May 2017

SESSION 3 IMPLICATION OF THE PARIS AGREEMENT: WHICH NEW HERITAGE POLICIES FOR ADAPTATION?

09:15 – 10.45 Round table 3: International, European and National policy needs

Chair: Roger-Alexandre Lefèvre, Université Paris-Est Créteil

Rapporteur: Alessandra Bonazza

Speakers:

- *Cathy Daly, School of History and Heritage, University of Lincoln, United Kingdom.* Informing Heritage Policy in an Uncertain Climate; Reflections from Ireland
- *Erminia Sciacchitano, European Commission, Brussels*
- *Filipa Neto, Departamento de Bens Culturais, Portugal:* Listening to the STORM – a preliminary survey to identify needs in risk management policies for cultural heritage endangered by natural hazards"
- *Emanuela de Menna, European Commission DG R&I, Bruxelles.* EU R&I and adaptation policies for cultural heritage. What results and what perspectives for the future?

10:45 – 11.05 Coffee break

11.05 – 12.35 Round table 4: Advanced research and services in support to policy

Chair: Lukasz Bratasz, Yale University, USA

Rapporteur: Peter Brimblecombe

Speakers:

- *Casimir Iwaszkiewicz, London.* Climate change adaptation in the cultural heritage sector- strategies for decarbonisation and renewable energy
- *Leonardo Cascini, ICOMOS, Italy:* Protecting cultural heritage from water-soil interaction related threats.
- *Patrizia Bianconi, JPI Cultural Heritage:* The joint programming initiative on cultural heritage and global change: strategies and activities
- *Elena Rossoni-Notter, Olivier Notter, Musée d'Anthropologie Préhistorique, Monaco.* Cultural Heritage and Climate Change through Paleolithic researches: an example from Liguro-provençal area
- *Giuseppina Padeletti, Horizon 2020.* HERACLES - Heritage Remediation After Climate Events on Site

12.35 – 14.15 Lunch

SESSION 4

PRIORITIES FOR THE FUTURE

14.15 – 16.00

Chair: Eladio Fernandez-Galiano

Presentation by Round Table Rapporteurs

Conclusion:

Cristina Sabbioni and Roger-Alexandre Lefèvre