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Preface I

This special issue constitutes an excellent and representative testimony of the variety of contributions presented during YOCOCU 2016.

The reader will find that the 41 papers in this special issue cover a wide range of materials (stone, gypsum, lime, mortar, ceramics, metal, paper, videos, textiles, paintings, plastics, pigments ...), from different types of art and heritage: architectural and archaeological; contemporary and digital art; industrial heritage, vernacular, art caves and ethnographic heritage; museum collections, landscapes and intangible cultural heritage (CH).

Among the techniques covered in this special issue, some innovative techniques, such as nanotechnology and nanomaterials, digital documentation, mobile apps, 3D technology, etc. are included, besides the more traditional ones for characterization, diagnosis, conservation and restoration (consolidation, protection, repairing, replacement and biocidal techniques).

One of the successes of the conference was to give a significant place to studies not always considered in this type of scientific conferences. In this regard, papers dealing with CH socio-cultural benefits and impacts, dissemination, tourism and economics, management, education, guidelines and management are present in this issue.

108 authors from 17 countries in four continents contributed to this special issue: China, Croatia, Germany, Greece, Italy, Mexico, Namibia, Pakistan, Portugal, Romania, Russia, Serbia, South Africa, Spain, Turkey, United Kingdom and the United States of America.

Most of the contributors are young students, researchers or professionals working in the field of CH, to whom YOCOCU conferences are devoted, as well as all the YOCOCU associations (Italy, Spain, Belgium, Azerbaijan, Turkey, Croatia, Romania and Germany).

The first and main goal of YOCOCU is to create an international platform to foster the role of youth in the field of research in CH conservation and restoration, in all disciplines related to CH, from the most modern and avant-garde to the traditional ones.

Some other objectives pursued by YOCOCU are to promote the conservation and value enhancement of cultural heritage; to give voice to young professionals and to provide them with tools and opportunities to develop their careers as well as the CH sector; and to match senior conservators with junior professionals.

I would like to acknowledge the reviewing tasks performed by the 25 reviewers, most of them members of YOCOCU 2016' Scientific Committee, for their time and effort, and who contributed to improve the quality of the papers.

I want also to express my gratitude to this journal, *GE Conservation*, for the confidence and the opportunity given for the dissemination of these papers, and for the excellent editing of this special issue.

Last but not least, thanks to my colleagues of the Petrology applied to Heritage Conservation research group, to YOCOCU Spain and to all the members of YOCOCU 2016' Organizing Committee. They made possible the conference, and therefore, this special issue.

I wish this publication will encourage young people, on the one side, to focus their interest on CH, and on the other side, I hope that young people who are already working in the field of CH of all over the world, will attend next editions of YOCOCU international conferences.

Monica Alvarez de Buergo

Chair of YOCOCU 2016, Madrid (Spain), 21-23 September 2016

Geosciences Institute IGEO

Spanish Research Council CSIC and Complutense University of Madrid UCM

Youth in Conservation of Cultural Heritage YOCOCU – Spain association

Preface II

Awareness of the importance of preserving and transmitting cultural heritage to future generations has been growing enormously over the last two decades. An indicator of this is the continuous growth in the number of cultural heritage sites and monuments inscribed in the UNESCO World Heritage list, which passed from 551 in 1987 to 1054 in 2016. Furthermore, the gap that once divided Europe and Northern America from other countries in terms of protection policies, development of practices and procedures for the restoration has been reduced. However, in the last two decades the number of World Heritage sites in danger strongly increased, passing from 10 in 1987 to 37 in 2016.

Growing attention to heritage and cultural identity and the increasing risk factors (from natural to anthropic (including archaeological looting and vandalism), require the development of a global strategy aimed at bringing together all the 'energies', best practices and knowledge, with the support of science and technologies, in order to preserve and manage cultural heritage in danger, ensuring a long life for the benefit of future generations.

To this end, a strong alliance between Research and Conservation needs to be made in order to improve the operational effectiveness of science, technologies and practical experience for preserving and restoring works of art, monuments, historical cities, archaeological sites and cultural landscapes.

This volume is the result of an effort aimed at creating a bridge between Research and the Conservation of cultural heritage, according to the mission of YOCOCU community.

Most of the crucial issues that characterize the debate of scientists and conservators for two decades has been discussed in this special issue, among which: i) the effectiveness and compatibility of remedial treatments, including those based on nanocomposites; ii) the best way to use and integrate in situ investigations and laboratory tests to study and evaluate the decay processes of heritage material; iii) the most reliable strategies and methods of safeguarding, maintenance and preservation of cultural heritage sites, including the protection of archaeological areas by shelters.

Finally, this special volume collects some overviews related to issues linked to sustainable management, fruition and valorization of cultural heritage, and case studies on cultural tourism, local perception of heritage values, and the use of urban and architectural heritage for contemporary art production and exhibition.

In conclusion, this volume is an innovative example of effective synergy and integration between research and conservation that we need more and more if we want to secure a future for our past.

Nicola Masini

Chair of YOCOCU 2018, Matera, Italy, 22-26 May 2018

Institute for Archaeological and Monumental Heritage IBAM

Italian Research Council (CNR)

Youth in Conservation of Cultural Heritage YOCOCU – Italy association