

GREEN CONSERVATION OF CULTURAL HERITAGE PALERMO_2017

2nd International Conference November_16th-18th



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GREEN CONSERVATION OF CULTURAL HERITAGE PALERMO_2017

2nd International Conference
November 16th-18th

Conference Program

16th November – Location I.E.ME.S.T.

9.30-10.00 Opening Ceremony

Session - MATERIALS 1

Chairman: M. P. Colombini and F. Fernandez

10.00-10.20	Open Lecture: R. Pullar (University of Aveiro, Portugal) <i>Green and sustainable nanomaterials for Cultural Heritage preservation applications</i>	
10.20-10.35	<i>Bio-mortars towards a sustainable restoration</i>	<u>C. Alisi</u> , L. Bacchetta, E. Bojorquez, M. Falconieri, M. Insaurralde, V. Martina, A. Meza Orozco, F. Persia, A.R. Sprocati, A. Tatì
10.35-10.50	<i>Evaluation of alternative binders for easel paintings fillings: physical and mechanical characterization of various filling mixtures</i>	<u>S. Fioravanti</u> , S. Burattini, E. Cantisani, E. Grifoni, G. Tonelli, D. De Luca
10.50-11.05	<i>Innovative materials for the conservation of wet organic archaeological materials</i>	<u>A. Papacchini</u> , A. Salvini, G. Di Giulio, B. Perito, V. Alabiso, M. Fioravanti
11.05-11.20	<i>Nanoclays: advanced nanomaterials for consolidation of waterlogged archaeological wood</i>	G. Cavallaro, <u>G. Lazzara</u> , S. Milioto, F. Parisi

11.20-11.45 COFFEE BREAK

Session - MATERIALS 2

Chairman: L. Campanella and F. Prestileo

11.45-12.05	Open Lecture: M. Mosquera (University of Cádiz, Spain) <i>Innovative nanomaterials for preserving Cultural Heritage</i>	
12.05-12.20	<i>Environment-Friendly Bronze Protective Coating with Natural Clay Nanotubes</i>	<u>Y. Lvov</u> , A. Joshi, G. Cavallaro, C. Colletti, G. Lazzara
12.20-12.35	<i>Sustainable conservation of outdoor metallic artworks by natural corrosion inhibitors</i>	<u>M. P. Casaletto</u> , V. Figà, A. Privitera, M. Bruno, M. Chellouli, D. Chebabe, A. Dermaj, H. Erramli, N. Bettach, N. Hajjaji, A. Srhiri
12.35-12.50	<i>Safe alternatives for the use of antibacterial nanoparticles</i>	<u>M. Blosi</u>
12.50-13.05	<i>Green syntheses of silver nanoparticles with biocidal activity for Cultural Heritage applications</i>	<u>M. Potenza</u> , I. Alfieri, L. Bergamonti, F. Fernandez, A. Lorenzi, P.P. Lottici, G. Predieri, L. Sambo
13.05-13.20	<i>Strategic use of nanomaterials based on inorganic hydroxides for the conservation of stone heritage</i>	<u>L.S. Gomez Villalba</u>
13.20-13.35	<i>The use of oil-in-water microemulsion to remove a beeswax layer from Antonio da Viterbo's frescoes of the Tarquinia Cathedral</i>	<u>V. Romè</u> , D. Rigaglia, V. Di Tullio, L. Luvidi, G. Sciuotto, S. Prati, L.Caporossi, G. Insolera

13.35 - 14.30 LIGHT LUNCH

Session 3 - CLEANING

Chairman: G. Predieri and S. Milioto

14.30-14.50	Open Lecture: R. Giorgi (University of Florence, Italy) <i>Smart Soft nanomaterials for artworks cleaning</i>	
14.50-15.05	<i>Smart materials for the environmentally friendly cleaning and protection of the surfaces of culture heritage artefacts</i>	<u>J. Rathousky</u>
15.05-15.20	<i>Preliminary solubility testing of green solvents for the removal and application of varnish on oil based paints</i>	<u>M. Escamilla Martínez</u> , P. Demuth, E.S.B. Ferreira



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15.20-15.35	<i>A new green product for the cultural heritage conservation</i>	<u>B. Gianfreda</u> , A. Macchia, L. Rivaroli, S. Nunziante Cesaro, M. F. La Russa, S. A. Ruffolo, F. Damiani
15.35-15.50	<i>Design the method of de-restoration and cleaning of detached wall painting deteriorated by gelatin using microorganisms and bio-surfactants</i>	<u>N. Khuskivadze</u> , K. Didebulidze, Khatisashvili G., K. Mania, M. Chogovadze
15.50-16.05	<i>Aztec technology transferred to cultural heritage sustainable cleaning practice</i>	<u>A.L. García-Alonso</u> , M. Sámano Chong
16.05-16.20	<i>The green chemistry at micro/nanoscale</i>	<u>D. Ferro</u> , I. Fratoddi, A. Rinaldi
16.20-16.30	Discussion	

16.30 -18.30 LIVING LAB SESSION WITH OPEN COFFEE

20.00 GUIDED TOUR AND APERITIF AT PALAZZO FRANCAVILLA

17th November – Location ORTO BOTANICO (University of Palermo)

9.00-9.30 Opening

SESSIONE 4 - BIO		
Chairman: F. Palla and M. Stefanidou		
9.30-9.50	Open Lecture: C. Urzì (University of Messina, Italy) <i>New green approaches to treat biodeterioration of Cultural Heritage</i>	
9.50-10:05	<i>Extraction or passivation of corroded metal: Call a microbial plumber!</i>	<u>E. Joseph</u> , M. Albelda, M. Albini, L. Comensoli, W. Kooli, L. Mathys, M. Monachon, C. Montavon, J. Schröter, P. Junier
10:05 -10.20	<i>An innovative method to study the interaction between pollutants and micro-algae within a project on bio-fouling of building materials and cultural heritage</i>	<u>G. Santunione</u> , C. Ferrari, A. Muscio, E. Sgarbi
10.20-10.35	<i>Controlled biocide release systems for the conservation of cultural heritage</i>	<u>M. L. Saladino</u> , A. S. Goyal, A. Bonaccolta, R. Alduina, D. Chillura Martino, E. Caponetti
10.35-10.50	<i>Identification, fight and prevention of wood, paper and cloth pests in objects of archaeological and historical interests</i>	<u>P. Boniventuro</u>

10.50-11.10 COFFEE BREAK

SESSIONE 5 - BIO		
Chairman: C. Urzì and U. Santamaria		
11.10-11.30	Open Lecture: M. Stefanidou (Aristotle University of Thessaloniki, Greece) <i>Use of oils for the protection of clay mortars</i>	
11.30-11.45	<i>Experimentation for the preparation of biocidal formulations for the preservation of stone surfaces</i>	<u>U. Santamaria</u> , F. Morresi, F. Fratini, S. Bani, G. Devreux, R. Reale
11.45-12:00	<i>Brazilian Cerrado plants extracts and bacterial bioactive compounds: New mitigation strategies for Cultural Heritage</i>	<u>M. Silva</u> , Z. Lopes da Silva, Y. K. M. Nóbrega, D. Silveira, A. Candeias, A. T. Caldeira
12:00-12.15	<i>Can plants save art? Potential use of essential oils for conservation of Cultural Heritage</i>	<u>V. Rotolo</u> , G. Pasquariello, P. De Nuntiis, R. Margagliotta, F. Palla
12.15-12.30	<i>Innovative and non-invasive technologies based on Plant essential oils for the preservation of Cultural Heritages</i>	<u>V. Valle</u> , A. Gismondi, L. Canuti, A. Canini, L. Bruno



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12.30-12.45	<i>Strategies of conservation against biological growth in an archaeological site</i>	<u>M. G. Ebbreto, P. Cennamo, M. Martelli Castaldi</u>
12.45-13:00	<i>Aromatherapy for human health: a review of the quality of therapeutic grade essential oils</i>	<u>D. Goldoni</u>
13:00-13.15	<i>Innovative, Technical Solutions for Micro-Air-Abrasion Cleaning in Historic Preservation, Moisture Remediation, and Surface Protection Supported by a Mobile Diagnostic Lab Kit</i>	<u>C. Giovannini</u>
13.15-13.30	Aero Cleaning demonstration by IBIX	

13.30-14.30 STREET FOOD LUNCH

14.30-15.30 POSTER SESSION

SESSIONE 6 - CASE STUDIES		
Chairman: A. Macchia and E. Joseph		
15.30-15.50	Open Lecture invited: M. Alvarez (CSIC-Universidade Complutense Madrid, Spain) <i>Non invasive and portable techniques for a sustainable conservation of Cultural Heritage</i>	
15.50-16.05	<i>Roman mortars used in archaeological sites in Spain and Turkey - A comparative study and the design of the repair mortars</i>	<u>D. Ergenç</u>
16.05-16.20	<i>Microstructural characterization and mechanical properties of Roman Mortars for their Restoration Case of the Historic site of Volubilis</i>	<u>A. Ammari, A. Dekayir, M.A. Dos-Bennani</u>
16.20-16.35	<i>Tutankhamun's Hassock: from the darkness of storage to the spotlight of display</i>	<u>Nagm Eldeen Morshed Hamza A.</u>
16.35-16.50	<i>Restoration from the Earth to the Sky: new treatments for waterlogged archaeological wood in Tuscany, and experiences of the nativity church restoration in Bethlehem</i>	<u>S. Sterinieri, M. Piacenti</u>
16.50-17.05	<i>An open work site: the eco-friendly conservation of the Dutch seat of Palazzo Mirto (Palermo)</i>	<u>G. Lo Sciuto, G. Di Miceli</u>

17.05-17.30 COFFEE BREAK

SESSIONE 7 - VALORIZATION		
Chairman: A. R. D. Accardi and L. Ferruzza		
17:30-17.45	<i>A collaborative web platform for designing green museum storages</i>	<u>E. De Bruyn</u>
17.45-18.00	<i>The Dual Sustainability of the Architectural Heritage: The Environmental Aspects</i>	<u>M. L. Germanà</u>
18.00-18.15	<i>The issue of study, preservation and promotion of antique necropolis in Azerbaijan on the basis of dark tourism concept</i>	<u>F. Khalilli, T. Karimli Firengiz Israfilova</u>
18.15-18.30	<i>Heritage of Somnath and Gujarat</i>	<u>T. Kapil</u>
18:30-18:50	<i>Sustainability in Conservation: The Student Ambassador</i>	<u>C. Southwick, R. Da Silva, M. Escamilla</u>
18:50-19:05	<i>Return to nature: feasibility of the use of cork as thermal insulation for enhance both technical and conceptual building restoration</i>	<u>I. Ruiz Bazán, J. Sierra-Pérez</u>
19.05-19.15	Discussion	

CLOSING CEREMONY AND AWARDS

19.30 VISIT TO NATURAL HISTORY MUSEUM WITH WINE DEGUSTATION



Poster Session

1	<i>TiO₂ self-cleaning basic sol coatings for limestones</i>	I. Alfieri, L. Bergamonti, F. Bondioli, P. P. Lottici, A. Lorenzi, G. Predieri
2	<i>Nanochrystral cellulose suspension: synthesis, characterization and application on organic substrates</i>	F. Bartolone, L. F. Liotta, F. Puleo, M. Sebastianelli, F. Palla
3	<i>Synthesis and characterization of cellulose nanocrystals for ancient wood consolidation</i>	R. Basile, L. Bergamonti, F. Fernandez, C. Graiff, A. Haghghi, C. Isca, P. Paolo, P.P. Lottici, B. Pizzo, G. Predieri
4	<i>Biostatic effect of polyamidoamines on the biodegradation of adhesives for paper restoration</i>	L. Bergamonti, V. Antonazzo, M. Branchi, C. Isca, P. P. Lottici, G. Predieri, L. Tireni, F. Zanella, F. Bondioli
5	<i>Improvements in bones and stones consolidation using vacuum system method</i>	L. Campanella, F. Grimaldi, R. Angeloni, R. Reale
6	<i>Production of Antibacterial Mortar and Algae Fiber Reinforced Cement</i>	E. Oyku Cerit, A. Timurogullari
7	<i>Eco-friendly extract of Brassica campestris for a sustainable inhibition of Cor-Ten corrosion</i>	M. P. Casaleotto, V. Figà, A. Privitera, M. Bruno
8	<i>Conservation and 3D modeling: a multidisciplinary approach for the study of the main portal of the cathedral of Monreale</i>	M. Lo Brutto, G. Dardanelli, D. Ebolese, G. Milazzo, C. Pipitone, R. Sciortino
9	<i>Use of oils for the protection of clay mortars</i>	A. Karozou, M. Stefanidou
10	<i>Performance evaluation of a green innovative consolidant applied on Cadiz Roman Theatre</i>	G. M. C. Gemelli, A. Gil Montero, M.J. Mosquera, F. Fernandez
11	<i>Cleaning intervention on a polychrome mosaic deriving from the archeological complex of Piazza della Vittoria: removal of organic substances present on the work surface</i>	P. Mancuso, N. Muratore, L. Pellegrino
12	<i>Watery methods for cleaning of wall surfaces</i>	R. Mirabella, L. Pellegrino, F. Palla
13	<i>Use of biotechnology in the conservation field: removal of sulphates on wall paintings with sulphate-reducing bacteria and bioconsolidation of wall paintings and stuccos</i>	E. Panella, C. Giovannone, M. Bartolini, V. Fondi
14	<i>Hybrid inorganic-organic systems as sustainable materials for conservative treatments of paper and wood</i>	G. Predieri, L. Bergamonti, C. Isca, C. Graiff, P. P. Lottici
15	<i>Paints for mineral and wooden surfaces historically used for interior and exterior in the northern region of Europe until the middle of 20th century. Their opportunities in restoration and renovation processes</i>	L. Rozentale
16	<i>The use of Posidonia oceanica for Restoration and Conservation of Artworks</i>	U. Santamaria, F. Morresi, F. Fratini, S. Bani, M. Ludmilla Putska, S. Colesanti
17	<i>Kilga Conference Study Egypt: from the Historical Dimension to Restoration. Study and Application of Stabilized Microemulsions in Allosite Nanotubes</i>	F. M. Semilia, G. Lazzara, G. Ingù, G. Tonini
18	<i>Molecular tailoring of nanostructured materials for a sustainable preventive conservation of Cultural Heritage</i>	A. Privitera, M. L. Testa, R. Zagami, A. Mazzaglia, M. P. Casaleotto
19	<i>Evaluation in laboratory and in situ of bioproducts for cleaning rust stains on stone surfaces</i>	L. Luvidi, A. Macchia, F. Prestileo, L. Rivaroli, E. M. Stella
20	<i>BIONANOSCULP, an ongoing project in biotechnology applications for preventive conservation of outdoor sculptures</i>	N. Silva, R. C. Pullar, M. M. E. Pintado, E. Vieira, P. R. Moreira
21	<i>Contemporary art: cleaning strategies</i>	A. Giordano, V. Rotolo, S. Schiavone, F. Palla
22	<i>Return to nature: feasibility of the use of cork as thermal insulation for enhance both technical and conceptual building restoration</i>	I. Ruiz Bazán, J. Sierra-Pérez



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