

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 1: November 18th, Monday

08.00-9.00

Registration

09.00-9.30

Room A - Opening ceremony

09.30-10.15

Key note lecture:

Arch. R. Cecchi *The archaeological sites of Rome and Pompeii. Protection as an interdisciplinary path of knowledge*

Room A - Conservation and management

10.15-11.15

Session 1 Cultural landscapes

P.M. Koufopoulos & M. Myriantheos *The Master Plan for Wadi El Deir, Sinai Egypt: Research and Interventions*

W. Wu et al. *Monitoring and Maintenance of Built Heritage within the Daily Management System: A Case Study of World Cultural Heritage Suzhou Classic Gardens in China*

L. De Marco et al. *Guidelines for eco-efficiency in the UNESCO site of Cinque Terre: an example of best practice*

A. Cazzani & C. Sangiorgio *Inventory, preservation and valorization of Historic roads In the Lombardy Region (Italy). Current policies and future plans*

11.15-11.45

Coffee break

11.45-13.00

Session 2 Historic centres and cultural landscapes

K. Basili et al. *Wear processes in architectural heritage: definition, studies, contrasting measures. The case of UNESCO World Heritage Site "Venice and its Lagoon"*

S. Pratali Maffei & A. Marin Forte *Marghera and the entrenched field of Venice: a participatory process of planning and valorization*

R. Picone *Farmhouses in the Phlegrean Fields between archaeology and architectural palimpsest. A multi-disciplinary approach*

Y. Sun *The conservation of Beijing Central Axis under the perspective of Historic Urban Landscape: rethinking the existing urban conservation system*

C. F. Carocci & C. Circo *"Needs-based architecture" in the Cyclades. A project for the enhancement and conservation of the architectural heritage and the rural landscape*

13.00-14.30

Lunch

14.30-15.15

Poster session A*

15.15-16.30

Session 3 Architectural heritage, diagnosis and conservation

F. Zangheri et al. *The chapel of the Blessed Virgin of Miracles: a multidisciplinary approach for the project of conservation and reuse*

D. Concas et al. *Santa Teresa from convent cloistered nuns to 'open' museum for the community*

C. Carocci et al. *The medieval Castle of Fossa (AQ). Analysis and restoration project*

I. Huic et al. *St. Mary on Lastre church in Beram, Istria, Croatia -multidisciplinary research, recommendations for restoration and further maintenance*

S. Dandria et al. *Granica of Cuna: from the complexity of the historical building to a composed knowledge for the project*

16.30-17.00

Coffee break

17.00-18.00

Session 4 Historic centres

G. Cardani & L. Binda *Guidelines for the masonry quality evaluation in built heritage*

E. Bersani et al. *Planning for the historic built in developing countries: challenges and opportunities through the case study of Multan (Pakistan)*

M. Faliva *New York City Local Law 11/98: consequences of administrative regulations on the conservation of buildings*

K. Penna et al. *From paper to people: The complexities of developing guidelines for preservation education in developing countries*

***All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program**

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 1: November 18th, Monday

08.00-9.00

Registration

09.00-9.30

Room A - Opening ceremony

09.30-10.15

Key note lecture:

Arch. R. Cecchi *The archaeological sites of Rome and Pompeii. Protection as an interdisciplinary path of knowledge*

Room B - ICT and new technologies

10.15-11.15

Session 1 3D survey, modeling
and monitoring

F. Fassi et al. *A yard of the future: the main spire of Milan Cathedral*

C. Pisu et al. *Multidisciplinary approach to the documentation of the XVIII century marble altars in Sardinia*

G. Fangi *Spherical photogrammetry for cultural heritage metric documentation: a critical examen six years after the beginning*

L. Pecchioli et al. *Museum of the sculptures of the basilica of Saint Silvestro integrating the visit at the catacombs of Priscilla in Rome*

11.15-11.45

Coffee break

11.45-13.00

Session 2 Structural diagnostic
and risk assessment

C. Maierhofer et al. *Monitoring of cracks in historic concrete structures using optical, thermal and acoustical methods*

E. Vintzileou et al. *In-situ measurements using radar and boroscopy techniques: Case Study - Hagia Sophia Museum of Trabzon, Turkey*

T. D. Pereira & D. Mateus *Monitoring noise and vibration emissions in Santa Clara-a-Velha Monastery*

L. Giorgi & P. Matracchi *The towers of San Gimignano. Architectural diagnostic for knowledge and conservation*

V. Russo et al. *Interdisciplinary conservation issues of an "unstable" architecture: researches about the bell tower of St. Augustine the Greater in Naples*

13.00-14.30

Lunch

14.30-15.15

Poster session A*

15.15-16.15

Session 3 3D survey, modeling
and monitoring

C. Giannico et al. *Satellite Radar interferometry: a new monitoring tool for cultural heritage sites*

A. Furini et al. *Integrated measurement techniques for the monitoring of the ancient walls of Ferrara*

A. M. Manfredini *Documenting lost heritage. The experience of the survey of architectures damaged by the earthquake in the Emilia area, Italy*

J. Barton & R. Parsons *Use of Leading Edge Laser Scanning and Modelling Technologies for Heritage Conservation*

16.30-17.00

Coffee break

17.00-17.45

Session 4 Structural diagnostic
and risk assessment

V. Bayarri-Cayón et al. *Integration of traditional and innovative techniques to resolve a complex case: Monitoring the movement and temperature influence of the canvas in the south transept of the Church of the Convent of San Luis in San Vicente de la Barquera (Cantabria)*

A. Lionello et al. *Testing and monitoring for the control of strengthening interventions of Santa Maria Gloriosa dei Frari in Venice*

E. Coisson & F. Ottoni *Monitoring historical structures, from their past to their future*

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 1: November 18th, Monday

08.00-9.00

Registration

09.00-9.30

Room A - Opening ceremony

09.30-10.15

Key note lecture:

Arch. R. Cecchi *The archaeological sites of Rome and Pompeii. Protection as an interdisciplinary path of knowledge*

Room C - Materials, preventive conservation and maintenance

10.15-11.15

Session 1 *Diagnostic and treatments*

S. Sestini et al. *Monitoring the performance of stone conservation treatments: Technical and economic aspects*

E. Tesser et al. *The decay of silicone resins applied for the consolidation of stone in Venice*

R. Bhartia et al. *Remote Detection of Biofilms on Stone*

S. Sasso et al. *Natural biocides to prevent the microbial growth on cultural heritage*

11.15-11.45

Coffee break

11.45-12.45

Session 2 *Diagnostic and treatments*

I. Papayianni et al. *Survey of repaired and artificial stone at archaeological site of Pella five years after restoration works*

S. Voltolina et al. *Assessment of atmospheric plasma torches for cleaning of architectural surfaces*

P. Ortiz et al. *RIVUPH: an Andalusian project for risk analysis in historical cities*

R. Vecchiattini et al. *Sampling problems in the radiocarbon dating of old mortars and plasters with the "pure lime lumps" technique*

13.00-14.30

Lunch

14.30-15.15

Poster session A*

15.15-16.30

Session 3 *Environmental monitoring*

G. Litti et al. *Energy environmental monitoring in historical buildings; a simplified methodology for modeling realistic retrofitting scenarios. The case study of Schoonselhof Kasteel in Antwerp (Belgium)*

J. Sasaki et al. *Research project on the conservation of Hagia Sophia, Istanbul - results of environmental monitoring*

R. Hendrickx et al. *Hygrothermal analysis of the façades of the former veterinary school in Anderlecht (Belgium) for the risk assessment of internal thermal insulation*

A. Caratelli et al. *Indoor measurements of microclimate parameters in the Mithraeum in the Baths of Caracalla (Rome, Italy)*

H. Norrström *The EEPOCH Project - Multidisciplinarity in a Multiple Case Study*

16.30-17.00

Coffee break

17.00-17.45

Session 4 *Diagnostic and treatments*

A. Velosa et al. *Mortars in Norway from the Middle Ages to the 20th Century: conservation strategy*

D. Gulotta et al. *Long-term evaluation of the salt decay susceptibility of NHL repair mortars*

N. Masini et al. *Approach to the study of conservation of historical masonry mortars by means of the correlation between porosimetry and penetrometric test. First results*

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 2: November 19th, Tuesday

08.30-9.00

Registration

Room A

09.00-09.45

Key note lecture:

Prof. P. Matthiae *Ebla: a Great Archaeological Discovery and an unaccomplished Park in the Scenario of the Syrian Tragedy*

Room A - Conservation and management

09.45-10.45

Session 5 *Archeological heritage*

M. Landoni *Conservation project on Nandin hall at Vat Phou archaeological site (Laos PDR)*

J. Cassar et al. *Preserving the Megalithic Temples of Malta - the interdisciplinary approach*

R. Buzancic *Restoration of Diocletian's mausoleum in Split*

G. Bagnasco Gianni et al. *Past&Present at Tarchna & Tarquinia: a flexible approach to make visible the invisible*

11.00-11.30

Coffee break

11.30-12.45

Session 6 *Archeological heritage*

F. Colosi et al. *Strategies and technologies for the knowledge, conservation and enhancement of a great historical settlement: Chan Chan, Perù*

W. Terlikowski & P. Leon Narloch *Specificity of research and reconstructions of ancient wall constructions in Syria, the area of Palmyra*

P. Pesaresi *The Herculaneum Conservation Project's programmed maintenance cycles for the archaeological site of Herculaneum*

D. Cavezzali & A. Giovagnoli *Conservation works of the Hall of Masks in the Domus Aurea, Rome*

G. Putaturo *Restoration of the Villa Reale of Monza*

12.45-14.15

Free time for lunch

14.15-15.00

Poster session B*

Room A

15.00-15.45

Key note lecture:

Prof. E. Vintzileou *The seismic behaviour of historic buildings tested on earthquake simulator*

Room A - Conservation and management

15.45-16.30

Session 7 *Architectural heritage, diagnosis and conservation*

P. Barrera & P. Bartholomew *Anthropology of Design: how Traditional Korean Architecture is redefining the terms of conservation, collaboration, and sustainable management*

A. Baila et al. *Conservation and restoration of polychrome stone mosaics in the architectures of the historical park of Villa Tatti Tallacchini: the music pavillion - Cafe house*

T.L. Park *The process surrounding the preservation of historical wooden architecture in Japan*

16.30-17.00

Coffee break

17.00-18.00

Session 8 *Architectural heritage, diagnosis and conservation*

F. Ottoni et al. *An integrated conservation process between history and hydraulics. The case of the ancient masonry "Tower of waters" in Colorno, Parma*

M. Borsotti & C. Campanella *An architectural project for existing buildings from understanding to writing*

M. Carlessi & A. Kluzer *Past, present and future of the forgotten places in the ancient "Ospedale Maggiore" (Ca' Granda) in Milan. Studies, surveys, analysis, prospects and projects*

A. Glória *The "private" cultural heritage: management, right and public fruition. The case of Cedovim manor's house (Vila Nova de Foz Côa, Portugal)*

19.30

Social dinner

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 2: November 19th, Tuesday

08.30-9.00

Registration

Room A

09.00-09.45

Key note lecture:

Prof. P. Matthiae *Ebla: a Great Archaeological Discovery and an unaccomplished Park in the Scenario of the Syrian Tragedy*

Room B - ICT and new technologies

09.45-10.45

Session 5 3D survey, modeling and monitoring

S. Janvier-Badosa et al. *Documentation and analysis of 3D mappings for monument diagnosis*

F. Dominici *Forum Pacis in Rome 320AD, procedural parametric 3D reconstruction*

A. Cardaci et al. *Integrated survey methodologies for the knowledge, restoration and valorization of modern architecture the case study of the archaeological museum of Siracusa designed by Franco Minissi*

G. Bearman et al. *Citizen Science and Mobile Phone Cameras as Tools for Monitoring World Heritage*

11.00-11.30

Coffee break

11.30-12.45

Session 6 Structural diagnostic and risk assessment

T. Boothby *Ars sine scientia: how incorrect design theories lead to correct designs*

S. Arangio et al. *Basic modeling for the forensic investigation of the collapse of a masonry structure*

K. Papadopoulos & E. Vintzileou *The new 'poles and empolia' for the columns of the ancient greek temple of Apollo Epikourios*

M. Vasic et al. *A multidisciplinary approach for the assessment of great historical structures: ties of "Duomo di Milano"*

S. Arangio et al. *Pushover seismic analysis of masonry buildings with different commercial codes*

12.45-14.15

Free time for lunch

14.15-15.00

Poster session B*

Room A

15.00-15.45

Key note lecture:

Prof. E. Vintzileou *The seismic behaviour of historic buildings tested on earthquake simulator*

Room B - ICT and new technologies

15.45-16.30

Invited lecture:

Dr. N. Proctor *Can talk save our cultural heritage? How the Smithsonian is bringing mobile social media to UNESCO's World Heritage Sites*

Session 7 Cultural heritage communication and valorization

B. Benedetti & S. Montanari *Methodology and technology in two new museums in Saudi Arabia*

16.30-17.00

Coffee break

17.00-17.45

Session 8 Cultural heritage communication and valorization

M. Negrini & N. Di Blas *Digital Storytelling for Cultural Heritag: a Modular, Multi-channel, Multi-scenario Approach*

G. D'Amico et al. *Onna project: a natural interaction installation and mobile solution for cultural heritage*

E. Oliviero & M. Barcaro *Scigno, enriching the visitor's experience with a tablet*

19.30

Social dinner

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 2: November 19th, Tuesday

08.30-9.00

Registration

Room A

09.00-09.45

Key note lecture:

Prof. P. Matthiae *Ebla: a Great Archaeological Discovery and an unaccomplished Park in the Scenario of the Syrian Tragedy*

Room C - Materials, preventive conservation and maintenance

09.45-11.00

Invited lecture:

Prof. R. Prykryl *Pre- and post-restoration investigation of stone monuments and buildings: approaches, interpretations, and consequences*

Session 5 *Environmental monitoring*

C. Pasquarella et al. *An integrated approach to the preventive conservation of cultural heritage: Computational Fluid Dynamics application*

C. Pasquarella et al. *An integrated approach to the preventive conservation of cultural heritage: indoor biological environmental monitoring*

Rosina & Rotta *Environmental protection and control systems for architectural and archaeological heritage*

11.00-11.30

Coffee break

11.30-12.45

Session 6 *Diagnostic and treatments*

A. Bonazza et al. *Pollution effects on typical Florentine lithotypes: a multidisciplinary approach*

C. Di Benedetto et al. *The Neapolitan Yellow Tuff: experimental investigations about effectiveness of antiswelling treatment*

S. Lugli et al. *Barium silicate consolidation of historical sandstones*

V. Tornari & A. Moropoulou *Crack micromorphology detection in stone samples by digital holographic speckle pattern interferometry*

L. Brizi & P. Fantazzini *Internal structure of porous media studied by the apparent water self-diffusion coefficient in the field gradient of a portable single-sided NMR instrument*

12.45-14.15

Free time for lunch

14.15-15.00

Poster session B*

Room A

15.00-15.45

Key note lecture:

Prof. E. Vintzileou *The seismic behaviour of historic buildings tested on earthquake simulator*

15.45-16.30

Session 7 *Diagnostic and treatments*

N. Proietti et al. *MOdihMA at Sforza Castle in Milano: Innovative Techniques for MOisture Detection in Historical Masonry*

M. Rossetto. *Capillary rising damp in historical buildings: electrophysical charge neutralization technology - a needful "zero impact" instrument to prevent and resolve the problem once and for all*

R. Radi et al. *The study of ground water effect and risks on the safety of the Archaeological Islamic buildings in Egypt applied on Azabk El- Youssefi Madrasa*

16.30-17.00

Coffee break

17.00-18.00

Session 8 *Environmental monitoring*

A. Bernardi et al. *Application of innovative technologies for energy storage to Cultural Heritage buildings*

M. Filippi et al. *The Accreditation Process for Museums in Regione Piemonte. Preventive Conservation and Indoor Environment Monitoring*

A. Grimoldi et al. *From rest/cons to en/eff: indoor environment and building preservation*

L. De Santoli et al. *Multidisciplinary approach for renewal of historical center: the case study of Ceglie Messapica (BR)*

19.30

Social dinner

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 3: November 20th, Wednesday

8.30-9.00

Registration

Room A

9.00-09.45

Key note lecture: Prof. E. Vassallo *Il restauro della Basilica palladiana di Vicenza: continuità progetto-cantiere*

Room A - Conservation and management

09.45-10.30

Session 9 *Architectural heritage, diagnosis and conservation*

A. Saisi et al. *Dynamic and seismic assessment of the Gabbia tower in Mantua, Italy*
 I. Stoyanova *Promoting a Nineteenth-century Italian Technology: the Crystal Skies of the Milanese Gallery "Vittorio Emanuele II"*
 G. Vella & E. Messina *Fruition and valorization of disused manufacturing settlements: the "tonnare" of the Gulf of Castellammare case-studies*

11.00-11.30

Coffee break

11.30-12.45

Session 10 *20th Century and industrial architectural heritage*

A. Sanna & G. Monni *Recovery, reuse of designs of the Carbonia's dwelling. Proposal for a "Handbook for the Recovery of Modernist Building"*
 Y. Salman et al. *A Model for an Integrated Multi-disciplinary Approach for the Preservation of 20th Century and Modernist Architectural Heritage*
 R. Lozano Galvez *The multidisciplinary in the protection of the 20th Century architectonic patrimony*
 P. Della Vedova *Instruments for the preservation and promotion of the 20th century built heritage: the case study of Legnano (MI)*
 D. Sarti & L. Varra *The organization of a districtual museum: the Textile Museum of Prato between the preservation of an industrial heritage and the development of a sustainable system*

12.45-14.15

Lunch

14.15-15.00

Poster session C*

15.00-17.00

Session 11 *Historic centres and cultural landscapes*

E. Invernizzi & M. M. Locatelli *Central Karakorum National Park and the Northern Areas territory: the "Cultural Heritage Routes" Project*
 N. Berlucchi *A fortress for Brescia: the enhancement of the Castle and the Cidneo Hill*
 K. Rajangam & P. Modi *Nakshay - a community led culture mapping initiative an attempt towards best practices and successful conservation*
 P. Giandebiaggi et al. *The "survey of memory". Cultural heritage in cemeteries: development of a catalogue protocol from the "representation" of multidisciplinary researches*
 P. Gasparoli & A.T. Ronchi *Crespi d'Adda. Beyond the Management Plan: regulatory instruments for the management of built heritage transformations*
 M. Achenza et al. *The 'earthen cities' itinerary*
 J. Bruin et al. *Knowledge is Power: Monitoring the World Heritage site of Amsterdam, a policy analysis*
 K. Rajangam & P. Modi *Heritage information management package (himp) -technology and experience driven approach towards efficiently managing india's built heritage sites*

17.00

Closing remarks

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 3: November 20th, Wednesday

8.30-9.00

Registration

Room A

9.00-09.45

Key note lecture:

Prof. E. Vassallo *Il restauro della Basilica palladiana di Vicenza: continuità progetto-cantiere*

Room B - ICT and new technologies

09.45-11.00

Session 9 3D survey, modeling and monitoring

S. Hermon et al. *Documenting Architectonic Heritage in Conflict Areas. The case of Agia Marina Church, Derynia, Cyprus*

L. Guerriero et al. *Multidisciplinary analysis: the Early Christian complex in Cimitile (Italy)*

G. Verdiani et al. *The Piacenza Cathedral, from the digital survey to a complete multimedia documentation*

S. Bortolotto et al. *Complex Archaeological Sites: An integrated stratigraphic framework for progressive knowledge acquisition and representation*

N. Masini et al. *Enhancement of the information content available from non invasive diagnostics for restoration and knowledge of architectural heritage*

11.00-11.30

Coffee break

11.30-12.45

Session 10 Structural diagnostics and risk assessment

R. Fabbri *Complex monumental heritage: problems and operational programs for post seismic restoration*

A. G. Mazzeri *Mantua Ducal Palace: One Year after the Earthquake. From Emergency Management to Seismic Improvement and Programmed Maintenance*

M. Dolce et al. *Constructive features and seismic vulnerability of historic centres through the rapid assessment of historic building stocks. The experience of Ferrara, Italy*

C. F. Carocci & A. Scudero *The restoration project of the church of Saint Agata in Tussillo (AQ, Italy) within the framework of the post-earthquake reconstruction plan*

K. Nedvědová & R. Pergl *Cultural Heritage and Floods*

12.45-14.15

Lunch

14.15-15.00

Poster session C*

15.00-16.00

Session 11 3D survey, modeling and monitoring

F. Niccolucci et al. *Quality control in the production of 3D documentation of monuments*

G. Guidi et al. *Quick textured mesh generation in Cultural Heritage digitization*

P. Ronzino et al. *Built Heritage metadata schemas and the integration of architectural datasets using CIDOC-CRM*

E. Demetrescu et al. *CONNEXT: CONNecting metadata to web3D interactive applications of large archaeological contEXTs*

16.00-16.45

Session 12 Structural diagnostics and risk assessment

M. Riggio et al. *Degradation of wooden surfaces in historical buildings: integrated sensing and modeling techniques for monitoring and conservation*

M. S. Okten et al. *A structural design case study on reconstruction of a historical timber mansion*

V. Sousa et al. *Asset management of built heritage: Application to wood-framing elements of the National Palace of Sintra*

Room A

17.00

Closing remarks

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program

BUILT HERITAGE 2013 - Monitoring Conservation Management

Day 3: November 20th, Wednesday

8.30-9.00

Registration

Room A

9.00-09.45

Key note lecture: Prof. E. Vassallo *Il restauro della Basilica palladiana di Vicenza: continuità progetto-cantiere*

Room C - Materials, preventive conservation and maintenance

09.45-11.00

Invited lecture: Prof. E. Dohene *Measuring Change in Art: The case for citizen science and time-lapse imaging of material cultural heritage*

Session 9 *Diagnostic and treatments*

L. Brambilla et al. *Experimental study on the influence of the environment on the properties of vegetal resins used in the conservation of Cham temples in Vietnam*

A. Verganelaki et al. *Synthesis and characterization of a calcium Oxalate-silica nano-composite for stone conservation*

G. Cappelletti et al. *Transparent hybrid films for stone preventive conservation*

11.00-11.30

Coffee break

11.30-12.45

Session 10 *Diagnostic and treatments*

T. Dreyfuss & J. Cassar *Ammonium oxalate treatment application in the presence of soluble salts: laboratory results on soft limestone*

M. Matteini et al. *Ammonium phosphates to consolidate carbonatic stone materials: an inorganic-mineral treatment greatly promising*

E. Sassoni & E. Franzoni *Evaluation of hydroxyapatite effects in marble consolidation and behaviour towards thermal weathering*

M. Favaro et al. *Calcium and magnesium alkoxides for conservation treatment of stone and wood in built heritage*

S. Tamburini et al. *Geopolymers as strenghtening materials for Built Heritage*

12.45-14.15

Lunch

14.15-15.00

Poster session C*

15.00-16.00

Session 11 *Environmental monitoring*

R. S. Adhikari et al. *Historical buildings: energy performance and enhancement*

M. Legnér & A. Luciani *The historical indoor climate. A long-term approach to conservation environments within heritage buildings*

F. Romano et al. *Temperature and humidity in museum display case: a simulation tool and experimental validation*

G. Cavaglià et al. *Intervention strategies for the energy retrofit of the built heritage: a case study in Turin*

Room A

17.00

Closing remarks

*All posters will be displayed for the duration of the Conference. Authors are invited to stand near their posters during the session indicated in the poster program