

EWCHP-2013

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3rd European Workshop

on Cultural Heritage Preservation

Bozen / Bolzano, Italy, September 16 to 18, 2013

www.3encult.eu/en/ewchp



Training day

Wednesday, September 18 2013

MORNING SESSION 9:00 – 12:00

Innovative Technology for Mitigation of Pollutant Impact for Museums, Archives and Libraries

Coordinators: Elin Marie Dahlin, Terje Grontoft and Karin Drda-Kuehn

Description: The workshop is a practical training session on measurements, mitigation and preventive conservation strategy. It will demonstrate the MEMORI dosimeter technology developed in the EU project MEMORI. The MEMORI technology is an instrument for preventive conservation with the aim of reducing costs to provide long term benefits for cultural heritage collections. The participants will get the opportunity to apply the air quality evaluation methodology developed in MEMORI.

Target audiences: conservators in museums, archives and libraries

Assessment of the potential for energy improvements in historic buildings: Practice, standards, case studies (3ENCULT, EFFESUS, Spara och bevara, CEN)

Coordinators: Tor Broström, Alexandra Troi

Description: Starting from the experiences in 3ENCULT, EFFESUS and Spara och Bevara and together with representatives from European standardization groups on “Energy Efficiency of Historic Buildings” (CEN TC346 WG8) and “Energy Performance of Buildings (EPBD)” (CEN TC89), the participants discuss approaches how to best assess the potential for energy retrofit in historic building and how to best guide the development of conservation compatible solution for the specific building

Target audiences: architects, engineers, conservators, Local Authorities, owners of historic building

Comprehensive diagnosis and multidisciplinary approach for conservation compatible energy retrofit (3ENCULT)

- **Coordinators:** Francesca Roberti, Dagmar Exner
- **Description:** During a visit of the Public Weigh House, a listed medieval building in the historic centre of Bozen/Bolzano and case study of 3ENCULT project, the comprehensive diagnosis performed there within the project – including both heritage and energy related aspects and ranging from the building historians study over IR-thermography and Blower Door Test and Thermal Fluxes to material and construction detail analyses – is explained and practically shown. Moreover, the support of this multidisciplinary diagnosis and following design phase by a further developed Raumbuch is presented.
- **Target audiences:** architects, engineers, conservators

3ENCULT is co-funded by the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 260162.



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AFTERNOON SESSION 13:00 to 16:00

Indoor air quality monitoring (CETIEB) [tbc]

- **Coordinator:** Jürgen Frick
- **Description:** The workshop presents the results of the CETIEB projects [detailed programme coming soon].
- **Target audiences:** conservation scientists, architects, engineers, conservators

Energy efficiency of the windows in the historic context (3ENCULT)

- **Coordinators:** Mathilde Andre, Dagmar Exner and Franz Freundorfer
- **Description:** The workshop presents a correct procedure for conserving the cultural heritage values and upgrading the energy performance of a historic building – with a focus on windows. First, a visit in the historic center of Bolzano/Bozen permits to show and to compare the esthetical value of old and new windows, glasses and frames. Second, in the beautiful building of the Public Weigh House (case study of the 3ENCULT Project) the solutions developed for conservation compatible highly energy efficient windows – for cases where the original window or has to be replaced – are presented and discussed. Finally, the participants investigate how the presented solution details can also be used for repairing and enhancing existing windows and how the concepts can be applied in different regional window construction traditions.
- **Target audiences:** architects, engineers, conservators

AFTERNOON SESSION 13:00 to 17:00

NanoMaterials for cultural heritage (NanomeCH cluster)

- **Coordinator:** Adriana Bernardi
- **Relators:** Francesca Becherini, Matteo Chiurato, Monica Favaro, Rodorico Giorgi, Martin Labouré, Alessandro Patelli, Luc Pockelé, Stefano Voltolina
- **Description:** The organization, focus and activities of the NanomeCH CLUSTER will be presented through research developed within three projects of the cluster, namely “NANOMATCH, NANOforART and “PANNA” currently in progress. In the workshop the application of innovative nanomaterials such as nanolimes and metal alkoxides products for the conservation treatment of different substrates and nano-sponges for cleaning will be discussed and the development and use of an innovative plasma-torch for soft cleaning and surface protection will be reported. The application methodologies, the laboratory tests, the preliminary results, the studies on the impact on human health and environment and the first concepts of application guidelines will be discussed. Finally, the advantages and drawbacks of different commercially available plasma devices and the new plasma-torch during the removal of polymers, graffiti, organic and inorganic dirt will be covered. The market impact and opportunities for the involved SMEs will also be addressed.
- **Target audiences:** scientists in CH, restorers, end users, policy makers in CH, sellers of products for CH, material science/scientists, chemist/chemistry, physic/physics

(for more information see specific program)

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