



## THE NANOMATCH PROJECT

Government authorities, restoration architects and conservation scientists have always had to face the problem of deterioration of historic building materials, in particular stone, wood and glass; an issue that has become more and more urgent since climate change has worsened natural decay and the impact of atmospheric pollution.

In addition, in recent years socio-economic requirements have claimed for a more sustainable use of existing building heritage. The NANOMATCH project will address this issue through the development of a class of innovative consolidants specifically designed to meet the requirements of the historic substrates and to identify high performance products to recondition the market dedicated to the conservation of the built heritage.

Combining the most recent advances in the fields of nanotechnologies and conservation science, the NANOMATCH project will address these issues by developing a new class of innovative nano-structured materials, tailored specifically to historic materials and adapted to a climate change context. They will provide enhanced sustainability, compatibility and efficiency compared to conventional conservation products, thus offering a real alternative and renewing the market dedicated to the conservation of the built heritage.

## PROGRAMME

### October 17<sup>th</sup>, 2014

09.00 - 09.30: **Registration**

09.30: **Welcome**

*Adriana Bernardi, Coordinator of the NANOMATCH project*

09.40-10.00: **Methodological approach to stone consolidation of the Ducal palace in Venice by innovative materials**

*Arianna Abbate, Fondazione Musei Civici di Venezia; Claudio Menichelli, Soprintendenza BAPPSAD di Venezia e Laguna*

10.00-10.20: **The importance of nature based solutions for innovating cities and the built environment (including historical buildings)**

*Project Officer Marie Yeroyanni, European Commission*

10.20: **Session 1**

**Presentation of the NANOMATCH project**

*Adriana Bernardi, CNR-ISAC*

- **Calcium alkoxides. Innovative nanostructured precursors for the consolidation of stone, wall paintings and for the deacidification of wood**  
*Monica Favaro, CNR-IENI*
- **Alluminium alkoxides. Innovative precursors for the protection of glass;**  
*Gerhard Schottner, Fraunhofer ISC*

11.20 – 11.40: *Coffee Break*

11.40: **Session 2**

- **Application and workability of calcium alkoxides on stone, wall paintings and wood**  
*Iulian Olteanu, DUCT srl*

- **Application and workability of aluminium alkoxides on glass**

*Ulrike Brinkmann, HDK*

- **Invited speaker: Innovative materials for stone/mortar treatment**

*Janja Ranogajec, project coordinator, University of Novi Sad*

- **Invited speaker: EU project PANNA Project and "Full-life Protocol"**

*Alessandro Patelli, project coordinator, Veneto Nanotech SCpA*

13.00 – 14.30: *Lunch*

14.30: **Session 3**

- **Laboratory tests for the assessment of the efficacy, compatibility and durability of alkoxides consolidants**  
*Elsa Bourignon, LRMH*
- **Evaluation of treatment performance on the site: Florence, Cologne, Bucharest and Oviedo case studies**  
*Francesca Becherini, CNR-ISAC*
- **Safety issues dealing with nanomaterials and Market perspectives**  
*Luc Pockele, RED srl*
- **Guidelines and advices for the use of metal alkoxides in the conservation field**  
*Rob Van Hees, TNO*

16.30: **Discussion about innovative and nano-materials for conservation and perspectives**

17.00: **Guided visit of the Correr Museum**

18.00: **End of the day**



## REGISTRATION

For registration, please fill in the registration form, which is available on <http://www.nanomatch-project.eu>

As the number of participants is limited, participation will be made available on a first come first serve basis, and you will be informed directly after registering.

There is no participant fee.

### Organizing Committee:

CNR-ISAC, Adriana Bernardi  
CNR-IENI, Monica Favaro  
Fraunhofer ISC-IZKK, Sabrina Rota

### In collaboration with:

Fondazione Musei Civici di Venezia



## LOCATION / PARTNERS

### Location for the Conference

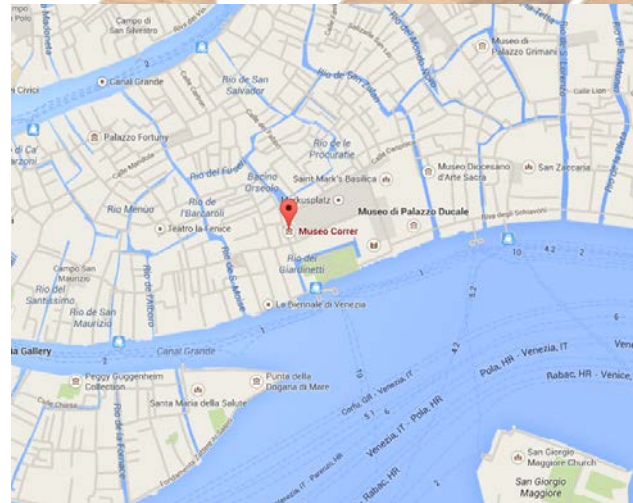
#### Museo Correr

Salone da Ballo  
Piazza San Marco  
Venice, Italy

[correr.visitmuve.it](http://correr.visitmuve.it)

#### ENTRANCE:

Ala Napoleonica  
Scalone monumentale



© Google maps

### Scientific Committee:



# NANOMATCH FINAL CONFERENCE



October 17th, 2014,  
Museo Correr,  
Venice, Italy