

Nano Rome, 20-23 September 2016 Innovation Conference & Exhibition

WORKSHOP

"NANOCOATINGS FOR ARCHITECTURAL SURFACES"

Sep. 21st 9.00-13.00

Università Roma La Sapienza - Facoltà di Ingegneria Civile ed Industriale
Via Eudossiana, 18 Roma

Co-organized and Sponsored by: NanoSilv S.r.l., NanoPhos SA.

Institutional Patronage: Ordine degli Architetti, Pianificatori, Paesaggisti e Conservatori di Roma e Provincia

Chair: Prof. Federica Fernandez – Università San Raffaele Roma

The workshop aims at offering more insight on some applications of nanotechnology for the construction sector, with particular reference to highly innovative solutions for the protection of architectural surfaces. During the session, in particular, various environmentally friendly treatments will be presented: self-cleaning, photocatalytic de-polluting, protectives and bactericides, coatings with thermal performances. All products help to increase the durability of the construction elements, to improve the performances of building materials, contributing to a better energy efficiency and safety of buildings, providing in the meanwhile a greater comfort to the interior of living environments.

It will be highlighted how all the presented technologies help to enhance the sustainability of buildings by prolonging the durability of the surfaces, reducing maintenance operations, enabling them to improve air quality and to reduce the energy consumption of buildings.

The first part of the session, after an introduction on issues related to the deterioration of natural stone materials, will concern the solutions based on nanotechnology for the protection of surfaces, such as water repellent treatments and photocatalytic TiO₂-based products.

The second part of the session, will address the problems related to heat transfer as well as energy efficiency of the buildings, with the presentation of the possibilities offered by innovative thermal reflective coatings that repel infrared radiation, allowing high energy savings.



Programme

9.00 a.m. – Institutional Welcome - Ordine degli Architetti di Roma e Provincia.

Chair: **Federica Fernandez**, expert on Nanotechnologies e nanomaterials for Architecture and Cultural Heritage, Università San Raffaele Roma.

9.30-10.00 – “Deterioration problems of natural stone materials and introduction to the use of nano-structured materials for conservation”

Lucia Toniolo, Politecnico di Milano - Dipartimento di Chimica, Materiali ed Ingegneria Chimica "G. Natta".

10.00-11.00 - “Nanocoatings for the surfaces protection and air depollution”

Ioannis Arabatzis, NanoPhos SA – Founder & Managing Director.

11.00-11.30 Break

11.30-12.30 “High-performance and low thickness thermoreflective systems for energy-saving buildings”

Stefano Silvestrin, Managing Direction NanoSilv s.r.l.

12.30-13.00 Conclusion and questions.

Event is free. Pre-registration requested before September 16, 2016.

For general and registration enquiries, please contact:

Arch. Luisa Gaglio email: luisagaglio@gmail.com

La partecipazione all’evento riconosce agli Architetti iscritti ad un Ordine d’Italia n. 4 crediti formativi.

Codice identificativo ARRM 1144

Prenotazione obbligatoria online: <http://www.architettiroma.it/formazione>



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