

RESTORE FINAL ONLINE CONFERENCE 3RD DECEMBER 2020

Note:

1) The title should be as brief as possible; 2) Your abstract must not be longer than 300 words, and it should state briefly and clearly the purpose, methods, results and conclusions of the work; 3) Please provide a short CV + Foto for upload on www.eurestore.eu/restore-final-conference/.

Title:

Solution sets for a regenerative environment

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Abstract: (max. 300 words)

Part of the Action's objectives is to give advice and guidelines on the technological solutions' sets that designers can apply to achieve a regenerative indoor environment. Considering the main environmental aspects and how the function of the building enables them, a general framework was elaborated to collect information on technological solutions available on the market. The different technical solutions are grouped in the three main building systems: building envelope, interior elements and finishes, and active systems (Heating, Ventilation and Air Conditioning – HVAC, renewable energy systems – RES, and controls). The solutions identified range from green external and internal walls, photocatalytic coatings, to daylight redirection systems and acoustic panels. Those technical solutions underpin the creation of a regenerative indoor environment, as they serve to improve several environmental aspects. This framework of solutions aims at directing the designers towards integrated solutions sets that address different environmental aspects and separate building's subsystems. Examples of integrated solutions designed by trainees of the 4th COST RESTORE Training school, held in Venice between the 2nd and the 5th of December 2019, are summarized and discussed.

Keywords: (max.5, please use semicolons)

Technological solutions, building envelope, interior elements, active systems, design framework

Short CV: (max. 100 Words + Foto)

Dr.- Ing. Thaleia Konstantinou is an Assistant Professor at the chair of “Building Product Innovation”, in the Department of Architectural Engineering and Technology of Faculty of Architecture, Delft University of Technology, The Netherlands. She has studied Architecture and Environmental Design and Engineering. In September 2014 she concluded her PhD research at the Faculty of Architecture, Delft University of Technology, The Netherlands. Currently, her activities, related to research and education, focus on energy efficiency, circularity, façade design, industrialisation and building products, working on integrated approaches for the decarbonisation of the built environment.

