

**RESTORE FINAL ONLINE CONFERENCE 3<sup>RD</sup> 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/](http://www.eurestore.eu/restore-final-conference/).

**Title:**

Monitoring and post-occupancy evaluation of a regenerative environment

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**Abstract: (max. 300 words)**

Awareness of the role played by the construction industry to respond to pressing contemporary challenges is pushing significant attention towards the comprehensive evaluation of buildings' environmental and energy performance, as well as on the application of solutions to sustain the quality of their indoor environments. In this context, the definition of appropriate methodologies for conducting monitoring campaigns and post-occupancy evaluations (POE) can offer a fundamental instrument for enhancing the design and operation of new and existing buildings. This presentation will offer a critical systematisation of the several procedures (e.g., longitudinal, point-in-time, transversal), protocols (e.g., survey questionnaires, focus groups, structured interviews, etc.) and tools (e.g., sensors, instruments, etc.) that are currently available to collect quantitative and qualitative building and occupant performance data. These methodologies have the potential to provide a significant step-change towards the systematic objective and subjective assessment (and continuous adjustment) of buildings' strategies towards their increased efficiency and the improvement of the comfort, satisfaction, health, and well-being of their users. However, given the dynamic and evolving nature of buildings, the complexity and diversity of their occupants, and the importance for these variables to be comprehensively balanced in the design and operation of the built environment, there are still many challenges that need to be tackled. In response, the presentation will also instruct a critical analysis of the current requirements of standards and certification systems to promote the administration of monitoring and POE campaigns, for then illustrating some of the avenues of development of scientific research and design practice towards a more comfortable, healthy, sustainable and, ultimately, regenerative built environment.

**Keywords: (max.5, please use semicolons )**

Well-being; comfort; standards; certification systems; post-occupancy evaluation

**Short CV: (max. 100 Words + Foto)**

Dr Sergio Altomonte is Professor of Architectural Physics at the Université catholique de Louvain (Belgium), where he directs the research group Architecture et Climat. He obtained a MArch (1998) and PhD in Environmental Design (2004) at the University La Sapienza (Italy). He was awarded a Master in Architecture and Sustainable Development (2001) at EPFL (Switzerland). He has held academic appointments in Italy, Australia (Melbourne) and UK (Nottingham), and visiting roles in Denmark (Royal Danish Academy) and the US (University of California Berkeley). His research expertise sits at the intersection between architectural design, indoor environmental quality, human psychophysics, and sustainable development.

