SOS Urban Lab

SAPIENZA UNIVERSITÀ DI ROMA

The potential of the Built Environment in climate-related challenges

Online seminar - Monday, 9 May 2022

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The increase in frequency and intensity of extreme weather events related to climate change, which put cities and citizens at risk, urges to go towards more sustainable development, and resilient practices able to adapt to these challenges.
In this panorama, the webinar aims to gather the research network of the SOS Urban Lab to discuss the built environment potential in mitigating climate-related challenges, from a multi-scalar and multi-disciplinary perspective. The Invited Speakers will share their innovative vision to address the complexity of intervening on the built environment under the lenses of sustainability, resilience, and adaptation.
This event is open to everyone who conducts research, study and work in the Architecture Engineering and Construction sector and shares the intention to create a more liveable, comfortable, and safe built environment. The event is also an opportunity to create new connections to the SOS Urban Lab network in view of future joint initiatives.

SOS Urban Lab
FOUNDER:
Carlo Cecere
SCIENTIFIC COORDINATOR:
Marco Ferrero
SCIENTIFIC COMMITTEE:
Adriana Ciardiello
Simona Mannucci
Michele Morganti
Olga Palusci
Arianna Peduzzi
Federica Rosso

Programme

13:30 – 14:00 Welcome and Opening Marco Ferrero

14:00 Introduction to Session 1 Microclimate adaptation and Regenerative design
Michele Morganti and Olga Palusci

1- Microclimate adaptation and Regenerative design

14:05 Bert Blocken - *Thermal climate adaptation: from building to city* (TU Eindhoven)
14:20 Helena Coch with Agnese Salvati - *Architecture, Energy and Environment* (Universitat Politécnica de Catalunya)
14:35 Alessandro Rogora - *New Proposals for Sustainable Design: The Imitation Game as an Experience of Shared Co-design* (Politecnico di Milano)

5 Minutes Q&A

14:55 Introduction to Session 2 Complexities and uncertainties
Simona Mannucci and Adriana Ciardiello

2- Complexities and uncertainties

15:00 Benoit Beckers - *Radiation Modeling for Urban Physics* (PAU University)
15:15 Michela Turrin - *Computational optimization for multidisciplinary design explorations* (TU Delft)
15:30 Jan H. Kwakkel - *Uncertainty in urban design: a model-based approach to increase adaptation in the planning process* (TU Delft)

5 Minutes Q&A

15:50 Introduction to Session 3 Sustainable and Innovative Construction Components
Federica Rosso and Arianna Peduzzi

3- Sustainable and Innovative Construction Components

16:00 Anna Laura Pisello - *Urban Heat Island: better knowledge of the anthropogenic phenomenon and its countermeasures through innovative materials* (Università degli Studi di Perugia, EAP Lab)
16:15 Paola Villoria Saez - *Reducing housing sector environmental impact: new perspectives for C&D waste from management to novel uses* (Universidad Politécnica de Madrid, Grupo TEMA)
16:30 José Navarro Navarro - *Experiences of sustainable technical design in the context of the built heritage: from the Alhambra in Granada to the Foro Italico in Rome* (Universidad de Granada)

5 Minutes Q&A

16:50 - 17:00 Closing Carlo Cecere