

SBE19 Graz



SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019
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Special Session

Stormwater Management of Buildings' Green Structures

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SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019

The SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019 is part of a major international series of conferences that focus on sustainable buildings and construction. This series, now on a three-year cycle, has become recognized as the world's preeminent conference series in this important field. Graz University of Technology will host the SBE19 in co-operation with University of Natural Resources and Life Sciences, Vienna, Karlsruhe Institute of Technology and ETH Zürich. Within this conference several Special Sessions are organized.

Objective of this Special Session

The greening of urban surfaces has recently gained the attention of urban planners and architects because green roofs or green facades have a significant influence on the mitigation of urban heat islands, storm-water retention and an improved microclimate. Such building structures also improve the air quality and thus contribute to a reduction of health problems, by capturing CO₂, heavy metals, volatile organic compounds and other air pollutants. Green spaces also have positive impacts on the quality of social life, because they can be used as community gardens or recreational areas. Another environmental advantage is that they contribute to an increase in urban biodiversity. Despite recognized general advantages green structures require adapted urban and building design, and extensive lifetime maintenance. Multidisciplinary assessment is needed to determine the actual benefits at particular micro and macro location.

The Special Session will be organized as knowledge exchange forum among the researchers, designers, urban planners and producers of market available solutions in field of urban green areas and green building structures.

This Special Session intends to cover the following topics:

- latest research in field of technology, environment and socio advantages with focus on technology solutions, urban heat island mitigation, air pollutant capture, precipitation management, grey water cleaning, decreasing of noise exposure, urban gardening
- stormwater management and its importance in green roof design: modelling, tools for assessment, evaluation of green infrastructures' storm water mitigation effect (short and long term)
- stormwater argument for green infrastructure (green roofs, walls) implementation: regulatory background, market reviews, importance of stormwater management in decision making process for green infrastructure, cities' stormwater management cases
- users experience including stormwater best case examples

Submitting Abstracts

Authors willing to present a paper at this Special Session are kindly invited to submit a 150 - 250 word abstract in accordance with the topic until **15 November 2018** through the online submission system available on sbe19.tugraz.at. Please indicate in the submission system that you would like to submit an abstract to this particular Special Session.

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In Cooperation with:

ETH zürich



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Karlsruher Institut für Technologie



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