



# SBE19 Graz

SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019  
Graz, 11–14 September 2019



## SPECIAL SESSION

### *Sustainable use of resources in urban planning*

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13 Sept 2019, 11.30am-01.00pm | Rechbauerstraße 12, 8010 Graz

## 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 cooperation with University of Natural Resources and Life Sciences, Vienna, Karlsruhe Institute of Technology and ETH Zürich. Within this conference several Special Sessions are organized.

## KEYWORDS AND OBJECTIVE OF THIS SPECIAL SESSION

*Urban planning, resource efficiency, urban climate, urban heat island, radiation balance, biomass heating, mitigating of pollution, Life-Cycle Assessment, nature-based solutions, ecosystem services, urban green spaces, nature conservation in urban environment, participatory planning, engagement of stakeholders, green areas and gentrification*

According to the UN, today 55% of the world's population live in cities. Until 2050 this share will grow up to 68%. Therefore, natural environment, quality of life and the sustainable use of resources are essential questions for urban planners. In this special session we deal with different aspects of urban life, from the aspect of resource-utilization. However, in our work we face both sides of alternative and innovative technologies and concepts, therefore, in this session we focus on both the potentials and the threats of some trends in urban planning:

- Planning with nature: Management of urban green spaces: a climatic and social benefit or a luxurious solution?
- Planning with climate: Green roofs, cool roofs, or hot energy collecting arrays? Relations between urban climate and radiation balance;
- Planning with energy: Users role in energy efficiency; Biomass heating: a potential or a weapon? How to mitigate concentrated pollution due to heating? Anthropogenic heat sources in the city.
- Participatory planning: engaging civil society in urban decision-making: a reality or an ideal? The listed topics are highly disputed among urban planners and we tend to investigate the opportunities and barriers of conscious resource-utilization. The objective of the session is to ensure a platform for topics that are interesting both for energy experts and urban planners. On the other hand, we have the ambition to present results that are of high interest for decision-makers too.

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