



Image: Stadt Zürich

Call for Papers and Workshop Proposals:

## Sustainable Built Environment (SBE) Regional Conference 2016

### Expanding Boundaries: Systems Thinking for the Built Environment

13.-17.06.2016 ETH Zürich, Switzerland

#### Call for Papers and Workshops

Consuming over 40% of total primary energy, the built environment is in the focus of worldwide strategies and measures towards a more sustainable future. To provide resilient solutions, a simple optimisation of individual technologies will not be sufficient. In contrast, whole-system thinking reveals and exploits connections between otherwise disparate parts. Each system interacts with others on different scales (materials, components, buildings, cities) and domains (ecology, economy and social).

The need for such system thinking is reflected by the current shift in research from the perspective of single buildings to small urban neighborhoods and districts. The expansion of system boundaries opens up vast opportunities for interaction and synergies but also poses challenges due to an increase in complexity.

We are delighted to announce the regional conference SBE 2016 as a platform to discuss this shift between students, researchers and professionals and to foster system thinking in the built environment. It will take place from June 13-17.2016 in Zurich. The conference is part of the international SBE series of conferences focusing on a sustainable built environment. It will be accompanied by workshops and site visits of recent, cutting edge building projects in and around Zürich.

We hereby issue the call for scientific papers and workshop proposals on the following topics. We welcome contributions on **novel methods, tools and case studies**.



## Topics

### Integrated approaches to energy and resource efficiency

- Urban mining, transformable structures
- Systemic approaches and case studies for sustainable buildings, districts and areas (e.g. 2000 W Society)

### Distributed energy systems and infrastructure for buildings and cities

- Multi-domain and / or, multiscale modeling, simulation and optimization of sustainable buildings and districts
- Integrated approaches for energy generation and climatization of buildings and districts

### Novel life-cycle oriented building and construction materials

- Recent developments, re- / upcycling, alternative materials, aspects of material life expectancy

### Approaches to user and stakeholder involvement and interaction

- Conceptual frameworks and aspects of implementation
- User participation (efficiency, sufficiency) and the role of the municipality

### Economic models and policy development for fast and efficient implementation

- Policy development, innovative business models
- Constraints / success factors for implementation
- Demographic challenges
- Alternative approaches (shareconomy etc.)

Papers must be unpublished and not under submission elsewhere.



Image: ETH Zürich

## Workshops

SBE 16 Zurich offers slots for workshops that focus on the conference topics. The 2-day workshops are conducted on the 13.-14.06., two days prior to the conference.

The workshops aim to provide an opportunity for students, researchers and professionals for focused debates, hands-on experiences and exploration of new methods or technologies (e.g. new software). The workshop results will be

presented at the conference. Workshop proposals need to be submitted by the dates listed below, providing the following information:

- 1 page description of objectives, content, schedule and relation to the conference topics
- Min / max amount of participants
- Targeted participants and required skillset
- 2-3 reference images or graphics
- CV of the workshop tutors
- Technical equipment required

The workshops will be selected by the organizing committee in terms of relevance for the conference theme, benefit for the participants and feasibility.

## Important Dates

01.08.2015	Deadline abstract submission
01.10.2015	Abstract acceptance notification
01.12.2015	Deadline full paper submission
15.11.2015	Deadline workshop submission
15.01.2016	Results paper /workshop review process
15.02.2016	Deadline final papers
13.-17.06.2016	Conference

For recent updates please visit [www.sbe16.ethz.ch](http://www.sbe16.ethz.ch)

## Conference Organization

Chair of Sustainable Construction  
Prof. Dr. Guillaume Habert  
[www.ibi.ethz.ch](http://www.ibi.ethz.ch)



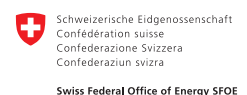
Chair of Architecture & Building Systems  
Prof. Dr. Arno Schlueter  
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