

SBE19 Graz

TRANSITION TOWARDS A NET ZERO CARBON BUILT ENVIRONMENT

The SBE19 Graz conference is part of a major international series of conferences that focuses on sustainable buildings and construction. The series was launched by the International Council for Research and Innovation in Building and Construction (CIB) and the International Initiative for a Sustainable Built Environment (iSBE) two decades ago, and these partners were subsequently joined by the Sustainable Building and Climate Initiative (SBCI) of UN Environment and the International Federation of Consulting Engineers (FIDIC).

The series, now on a three-year cycle, has become recognized as the world's preeminent conference series in this important field. The series consists of a first year of planning, followed by a series of regional conferences in the second year, and culminating in a global event during the third year. In 2019, SBE19 Graz will be one of the regional conferences, while the global conference *World Sustainable Built Environment Conference (WSBE2020)* will be held in Gothenburg, Sweden in 2020.

The thematic umbrella of the WSBE2020 will be the United Nations SUSTAINABLE DEVELOPMENT GOALS (UN SDGs). SBE19 Graz will be organized in thematic line with this conference. In addition, a focus should be put on approaches for implementation of sustainable developments. Graz University of Technology will host this conference in co-operation with University of Natural Resources and Life Sciences, Vienna and for the first time internationally with Karlsruhe Institute of Technology and ETH Zürich.

INTERNATIONAL CO-OWNERS



SBE19 Graz

SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019

CONFERENCE CHAIRS

- **Alexander Passer** (Graz University of Technology)
- **Michael Monsberger** (Graz University of Technology)
- **Helga Kromp-Kolb** (University of Natural Resources and Life Sciences, Vienna)
- **Thomas Lützkendorf** (Karlsruhe Institute of Technology)
- **Guillaume Habert** (ETH Zürich)

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IN CO-OPERATION WITH



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SBE19 Graz

SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019

11 - 14 September 2019
Graz University of Technology, Austria



Conference Topics

Assessment & Certification

- Life Cycle Sustainability Assessment (LCSA)
- Environmental Product Declaration (EPD) and Product Environmental Footprint (PEF)
- Legal and economic frameworks
- Standardisation and legislation
- Building sustainability certification
- Sustainability performance of buildings / Case Studies

Design & Decision-Making Process

- Integrated design process / life cycle design
- Designing under future climate risks
- Designing for resilient buildings
- Net Zero Emissions / resource efficient / plus-energy buildings
- Life Cycle perspective in high quality refurbishment
- Building services for sustainable buildings
- Sustainability through building automation
- User integration
- Managing complexity in design and construction
- Building Information Modeling (BIM)

Cities & Infrastructure

- Circular Economy for the Built Environment (emerging business models, bottom up initiatives, etc.)
- District evaluation and optimization
- Cities as temporal carbon and energy storage
- Retrofit European building stock
- Holistic approaches based on SDG11

Innovation & Implementation

- Innovative products and systems for sustainable buildings
- Demonstration projects (building, district development, etc.)
- Smart building systems
- Best practice policies and implementation

DEADLINES

- > **Early Bird Registration:** 31 May 2019
- > **Presenting Author - Late Registration:** 23 June 2019

The Venue

Graz is the capital of Styria and the second largest city in Austria, with about 284,000 inhabitants. The city of Graz hosts four universities and two universities of applied sciences with all together 50,000 students. Graz is located in the foothills of the Alps at the river Mur and impresses you with a mild climate and vineyards in the region of southern Styria ("Austrian Tuscany"). In the year 2003 Graz has been the European capital of culture and since 2011 it is selected an UNESCO city of design. The marvellous historic city centre, which is declared as a world heritage of UNESCO, is placed around the Schlossberg with the well-known Clock Tower "Uhrturm".

Graz University of Technology

Science, Passion, Technology: Established more than 200 years ago, Graz University of Technology currently hosts 12,000 students in the fields of natural sciences and engineering. The 1,000 graduates per year are in high demand on the employment market. The unique and strong networking with regional and international business partners is a crucial factor of success for the University on the different fields of activities. The mission of the Graz University of Technology is driven by strong passion for a responsible and sustainable development of our society, economy and environment.

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