

## active buildings - active cities

In the past few years, the debate on the future and sustainability of cities has heated up globally. The debate addresses our usage of limited natural resources and the need to adapt to climate change. Although cities are the main cause of CO2 emissions, they have the potential to change the way they use and produce energy in order to ensure the sustainable development of human society.

Every resident and every building can help. As interrelated elements of the urban community they can interact in powerful and synergetic ways. By considering the interplay of free space, mobility and infrastructure we can create meaningful and innovative models for the sustainable city of the future.

Our international summer school „active buildings - active cities“ aims to contribute to the inventions of new construction paradigms and to the city of the future. We consider working together in our international community essential to this creative process.

Germany plays a technologically and scientifically important role in this area. The Department of Architecture of the Technical University of Darmstadt (TU Darmstadt) has been intensively involved in the field for years. Related projects include the EnEff-Stadt research project „UrbanRe-Net“, the active houses for the U.S. Solar Decathlon in 2007 and 2009, as well as the „Effizienzhaus Plus im Altbau“ (Efficiency House Plus in Old Buildings) in Neu-Ulm. The collaboration with the Department of Building Climatology and Building Technology within the Department of Architecture at the Technical University of Munich (TU Munich) enhances our technological and design expertise to invent new approaches to sustainable urban development.



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### participants:

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### active buildings - active cities, summer school 2013

For the summer of 2013, the Department of Architecture at the TU Darmstadt (FB15) is planning an international summer school that's aim is to develop into an annual event. The summer school intends to strengthen existing international contacts, to build new networks, to collaborate on teaching methods, and to allow the participants to share knowledge with one another.

The summer school will be supervised by Prof. Manfred Hegger's Unit of Design and Energy Efficient Building and Prof. Anett-Maud Joppien's Unit of Design and Building Technology, both of which are faculties from the TU Darmstadt. They will be working along side with Prof. Dr. Gerhard Hausladen's Chair for Building Climatology and Building Engineering from the TU Munich.

The summer school will be structured by morning and afternoon lectures, workshops, and field trips. The lectures will be held by visiting experts who will discuss the subject of sustainable cities from different perspectives. The field trips will illustrate trends of urban development while the workshops will tackle specific issues in depth.

Students will work in international teams under the supervision of teachers who will offer them feedback throughout the workshop. At the end of the summer school there will be interim reviews led by the visiting experts. The final

results will be published and displayed during the closing off ceremony where there will also be guest lectures and a festive send off.

### active buildings - active cities, graduate day 2013

A graduate day will be held on Fr. July 26, 2013 for doctoral students pursuing research on the topic of sustainable architecture and cities. Students from the fields of architecture, urban studies, civil engineering and others concentrated on sustainable energy are invited.

If you are interested in presenting your research on sustainable architecture and cities, please register by submitting a written application including your curriculum vitae (CV, max. 2 DIN A4 pages) and an Abstract (max. 1 DIN A4 page).

### Participants

The summer school is aimed at master/ diplom students, graduates, young international and domestic scientists, and students of the Faculty of Architecture who have a strong interest and background in the field of sustainable building.

The goal is to have 60 students (20 from Germany, 10 from Europe, 10 from Mexico, 10 from USA, 10 from Egypt)

### Timeline

Arrival	07/21/2013
Summer school	07/22 – 08/04/2013
Departure	08/05/2013

### Course language

English Level: B2, C1

### For more information and current announcements

[http://www.ee.architektur.tu-darmstadt.de/ee/summer\\_school\\_2013/lehre\\_intro\\_2.de.jsp](http://www.ee.architektur.tu-darmstadt.de/ee/summer_school_2013/lehre_intro_2.de.jsp)

