

Spring Campus, March 27 -31, 2017

**Workshop: “Climate Change in Cities. Mitigation, Adaptation”, March 28, 2017**

*Organized by Prof. Dr. Sahar Sodoudi*

Abstract:

More than half of the world’s population lives in cities. By 2030 this number will have swollen to 70%, with urban growth concentrated in Africa and Asia. Cities face two major problems; climate change (due to the increase in greenhouse gases) and Urban Heat Island (due to urbanization and land cover change). Urban Heat Island will be intensified by global warming and more frequent heat waves, leading to enhanced heat stress for people, animals and plants in urban areas.

Strategies to mitigate both climate change and urban heat island, as well as adapt our cities to climate change, are required to keep our cities livable and resilient. These strategies should be evaluated in term of their effectiveness and feasibility. Combined mitigation and adaptation strategies should be designed which not only improve the outdoor urban climate, but also reduce indoor energy demand and at the same time decrease the risk of heat stress (depending on thermal perception of the human body).

Adaption action will be more successful if we narrow the gap between science and decision making. Therefore, this workshop will show how science can support decision making to adapt our cities to climate change. As important as urban climatology is for sustainable development, urban and landscape management and planning, which also have to cope with changing socio economic, political and ecological conditions. Meanwhile, measures must be taken to achieve Energy efficiency, sustainable water and wastewater management, and reduce the risk of disaster.

In this workshop, scientists from different disciplines are invited to discuss mitigation and adaptation strategies in different cities, and their contribution to decision making.