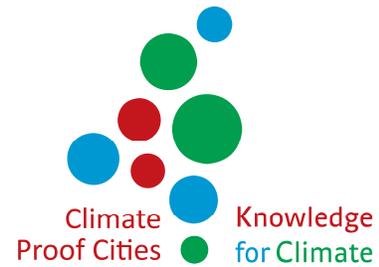


# Newsletter

## Climate Proof Cities



Issue 2 – May 2012

### Introduction

The newsletter keeps you updated twice a year on the developments within the Climate Proof Cities consortium. CPC is one of the eight themes within the research programme Knowledge for Climate (KfC). The objective of this consortium is to strengthen the adaptive capacity and to reduce the vulnerability of the urban system against climate change and to develop strategies and policy instruments for adapting our cities and buildings.

In this newsletter we will give you an update on past events such as the CPC Spring School in Manchester, the consortium meetings in January and April and our presence at the ICLEI Conference on Resilient Cities in Bonn. We will also introduce Twan van Hooff as a new postdoc in the CPC programme.

### Spring school Manchester April 2012

April 1<sup>st</sup>, the CPC Spring School at the University of Manchester (UoM) kicked off. 10 PhD students from the Netherlands, 9 from the UK and 2 from Germany (of 12 different nationalities in total) gathered to explore the 'science-policy' interface in the field of climate change adaptation in cities. The inspiring 4-day programme included presentations of many key speakers in the area of climate adaptation, various panel discussions and interactive workshops and site visits based on actual case studies in the Manchester area.

The programme struck a good balance between practitioners and academics. Presentations of the various scientific experts in the field provided valuable information and suggestions on all the different aspects of the CPC Programme. Some examples:

- Roger Street, Technical director of UK Climate Impacts Programme (UKCIP), for example, shared with us valuable lessons from the Adaptation and Resilience to a Changing Climate (ARCC) programme (more or less comparable to KfC) on how to make sure your research will be put to practice, stating that "research is not being done, if it's not being disseminated". Besides communication, integration was a major topic. "Integration should not be the last step of the research", as Iain White (UoM) put it.
- Geoff Levermore (UoM) and Andreas Matzarakis (University of Freiburg) discussed the Urban Heat Island effect for Manchester and Freiburg respectively, and both conclude that important contributors are the sky view factor and wind speed.
- John Broderick of the Tyndall Centre updated those present with the latest findings on climate change; currently we are heading for a 4 °C rise in temperature by 2070, making demand-side policy crucial in avoiding the 2 degree tipping point. He concluded that we should "Mitigate for 2°C, adapt to 4°C!" As Jeremy cited Will Steffen in his presentation on urban climate governance: "this is the critical decade".
- More green, though, might be the answer, as Roland Ennos (UoM) claims that cities could be climate proofed by adding 10% more green space to city centres, thereby cooling surfaces by 4°C.

These are only a few examples of the many scientific speakers presenting at the spring school. In addition, the panel discussions with stakeholders were of high relevance to the group, especially to find out how important it is to involve end-users and how to communicate the research results to policy-makers and practitioners in the right way.



The 4 cases studies were a good opportunity to apply our knowledge on climate adaptation in practical real world situations and sharing each other's expertise. The mixture of teams from different nationalities added to the exchange of ideas and contacts. Site visits provided extra opportunities for networking while gathering case study information. Though time was limited, the different teams were able to give some recommendations on further issues to be addressed.

In short we may say that the Spring School has produced useful contacts and insights for the CPC research programme.

### **Consortium meeting January 13 in Delft**

January 13 a CPC consortium meeting was held at the University of Delft, covering work package and case meetings, a presentation of Andy van den Dobbelaer on Energy Neutral Design and the New Year's drinks. The meeting was very fruitful and the day appeared too short in the end to discuss all relevant topics.

### **Consortium meeting April 26 in Utrecht**

April 26 the second CPC consortium meeting of 2012 was held at TNO in Utrecht. One of the topics of the meeting was on progress in the work packages and case studies. Several projects are at their final stages and will be completed shortly/after this year:

- 2.2: Human Health Impacts
- 2.3: Sensitivity & vulnerability
- 2.4: Neighbourhood typology



- 3.3: Rainfall interception in cities
- 3.4: Water & energy systems

An update of the results of these and the other projects, will be given at the next consortium meeting where PhD's and project leaders will present last year's outcomes.

Also, a brainstorm was being facilitated on the final result of the total programme in 2014 and of the case studies separately. The concept of a cost-effectiveness curve as a

principle for harmonizing the information on all the adaptation measures that we are investigating was being presented. Making the results of individual projects comparable is an important step towards serving our stakeholders with information for choosing of and deciding on the implementation of adaptation measures.

The day concluded with a presentation by prof. Edward Ng and Dr Ren Chao of the Chinese University of Hong Kong. Their story on how to use urban climate maps was very inspiring. All in all this was again a useful occasion to exchange ideas and business cards in order to achieve good and integrated results in the end.

### **Introduction: Twan van Hooff**

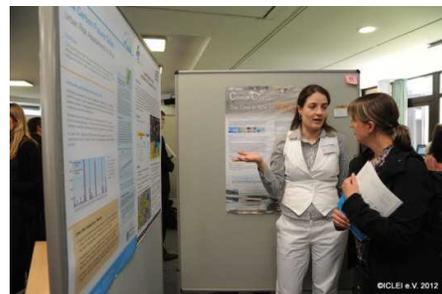
Twan van Hooff will be working as a postdoc at the Unit Buildings Physics and Services at Eindhoven University of Technology from July 1, 2012. He will work on project 3.5 of the CPC project, which is titled "Adaptation measures at the building scale: adaptive building envelopes and occupants".



This project focuses on adaptation measures at the building scale in general, and on adaptation of the building envelope and the adaptive behaviour of building occupants in particular. The idea is to develop activity-based models (ABM) for residential and office buildings for integration in Building Energy Simulation (BES). In addition, the performance of adaptation measures at the building envelope will be assessed using BES.

### **ICLEI Conference Resilient Cities, Bonn**

CPC was present at the international conference of ICLEI (a worldwide network of local governments committed to sustainable development) on climate adaptation with a poster showing some of the results that were also presented in the 2011 yearly report. Our approach of an integrated large scale research programme received quite some attention.



# Agenda 2012

## May 2012

- 12 - 15 May - Resilient Cities 2012 - 3rd World Congress on Cities and Adaptation to Climate Change (ICLEI Bonn)
- 13 - 18 May - IWA World Congress on Water, Climate & Energy 2012
- 23 May - Core team meeting (2-5 pm)

## June 2012

- 7 June - SBR Duurzaamheidscongres 2012 - Klimaatadaptatie van gebouwen (Venlo) - **New!**
- 13 - 15 June - Water & the City, symposium TU-DELFT
- 17 - 20 June - Conference on Urban Environmental Pollution, Amsterdam, the Netherlands
- 25 - 27 June - The Mediterranean City: A Conference on Climate Change Adaptation

## July 2012

- 24 - 27 July - International Urban Planning and Environment Association's 10th Symposium

## August 2012

- 6 - 10 Aug - 8th International Conference on Urban Climate (ICUC8)
- 29 - 31 Aug - Nordic International Conference on Climate Change Adaptation: "Adaptation Research Meets Adaptation Decision-Making" (Helsinki, Finland) - **New!**

## September 2012

- 5 Sep - Core team meeting (2-5 pm)

## October 2012

- 4 Oct - Midterm Assessment Knowledge for Climate
- 11 - 12 Oct - Conference Energy and Climate Change (Promitheas, Greece)
- 25 Oct - CPC Yearly Event 2012 (members only)

## November 2012

- 21 Nov - Steering group meeting (1-5 pm)
- 28 Nov - Core team meeting (2-5 pm)

## December 2012

- Dec - Second yearly report CPC

## Contact information

### Consortium leader

Ronald Albers MSc. MPA  
TNO  
P.O. Box 80015  
3508 TA Utrecht  
The Netherlands  
T +31 88 866 20 01  
E [ronald.albers@tno.nl](mailto:ronald.albers@tno.nl)  
W [www.knowledgeforclimate.org/climateproofcities](http://www.knowledgeforclimate.org/climateproofcities)

### Programme Office Knowledge for Climate

Secretariat:  
c/o University of Utrecht  
P.O. Box 80115  
3508 TC Utrecht  
The Netherlands  
T +31 88 335 7881  
E [office@kennisvoorklimaat.nl](mailto:office@kennisvoorklimaat.nl)

Communication:  
c/o Alterra, Wageningen UR  
P.O. Box 47  
6700 AA Wageningen  
The Netherlands  
T +31 317 48 6540  
E [info@kennisvoorklimaat.nl](mailto:info@kennisvoorklimaat.nl)

The research programme Knowledge for Climate is co-financed by the Ministry of Infrastructure and the Environment.

## Consortium partners



**Foreign research partners:** University of Manchester, University of Kassel, Albert-Ludwigs-Universität Freiburg

Frequency newsletter: Twice a year

If you want to subscribe to this newsletter, please contact Vera Rovers at [vera.rovers@tno.nl](mailto:vera.rovers@tno.nl)

See for other newsletters of consortia of Knowledge for Climate: <http://www.klimaatonderzoeknederland.nl/nieuws/nieuwsbrieven>

Or fill in the [application form for consortium newsletters](#)