



# 2009 SENSE Symposium 1 December 2009

## Climate Proofing Cities

**Programme** (final draft 3 November 2009)

Venue: Van der Valk Hotel Volendam, Wagenweg 1, Katwoude

### 1 December

10.00–10.30 **Registration**

10.30–12.00 **Opening Plenary**

Chair: ERNST WORRELL, SENSE Research School and Utrecht University

Speakers:

- MICHELE BETSILL, Colorado State University
- CHRIS ZEVENBERGEN, Technical University Delft and UNESCO-IHE, Delft

12.00–13.00 **Lunch (included in registration fee)**

13.00–14.15 **Parallel session 'Balancing adaptation& mitigation I'**

Chair: KRISTINE KERN, Wageningen University

- IAN MCGREGOR, University of Technology, Sydney (UTS) and LOUIS LABEL  
U-Turn needed to create sustainable cities for adaptation and mitigation
- PETER BOSCH, TNO, Utrecht  
Mitigation, adaptation and water management in cities
- EMMY BERGSMAN, JOYEETA GUPTA et al., VU University Amsterdam  
Climate change and individual responsibility in adaptive capacity: the Dutch case

**Parallel session 'Future city design- research I'**

Chair: HENK MOLL, Groningen University

- BERT VAN HOVE, B.J. HEUSINKVELD et al., Wageningen University  
Observing the urban climate system
- LISETTE KLOK, SANDER ZWART et al., TNO, Utrecht  
The heat island of Rotterdam derived from satellite imagery
- GERT-JAN STEENEVELD, S. KOOPMANS et al., Wageningen University  
Quantification of the urban heat island effect in the Netherlands: exploring long term observations by hobby meteorologists

**Parallel session 'Future city design- design I'**

Chair: ARJEN HOEKSTRA, Technical University Twente

- SANDA LENZHOLZER, Wageningen University



- Research and design for thermal comfort in Dutch public spaces
- LAURA KLEEREKOPER, Technical University Delft  
Design measures to prepare urban areas for the Urban heat island effect
- STEFANIA MUNARETTO AND PIER VELLINGA, Foscara University Venice IT  
To what extent are Venice and its lagoon climate proof?

#### **Parallel session 'Greening the city I'**

Chair: ROB LEUVEN, Radboud University Nijmegen

- HELEEN MEES  
Climate greening the cities: Spatial planning, governance capacity and green space
- DEREK VOLLMER, The National Academies, Washington USA  
Realizing the 'green' in urban green space
- KIM VERMONDEN, ROB LEUVEN et al., Radboud University Nijmegen  
Key factors for biodiversity of water systems in climate proof cities

#### **Parallel session 'Public health and urbanization I'**

Chair: MAUD HUYNEN, Maastricht University

- ANNA MARIA DE RODA HUSMAN AND M. BRAKS, RIVM, Bilthoven  
Cholera and malaria in Volendam
- HEIN DAANEN AND RIES SIMONS, TNO, Soesterberg  
Climate related morbidity and mortality in the elderly- why do they get ill and die?
- SARA MULDER, Wageningen University  
Increased human health impacts of natural pathogens as a result of climate change

14.15–14.30

**Coffee/tea break**

14.30–15.45

#### **Parallel session 'Balancing adaptation& mitigation II'**

Chair: KRISTINE KERN, Wageningen University

- MAYA VAN DEN BERG, Technical University Twente  
Motivations for local climate adaptation in Dutch municipalities
- FLORENCE RUDOLF, Insa Strasbourg FR  
Citizens against climate change: how far can the networking of citizens be a programme for a low carbon city
- TIM GROTENHUIS, HUUB RIJNAARTS et al., Wageningen University  
Sustainable energy technology and quality of the subsoil in urban areas

#### **Parallel session 'Future city design- research II'**

Chair: HENK MOLL, Groningen University

- CLAUDIA AGUDELO AND W. LEDUC, Wageningen University  
Urban harvest approach, a resource based tool for urban design



- HIDDE LEIJNSE , REMKO UJLENHOET ET AL., Wageningen University  
Real-time monitoring of extreme rainfall over urban areas using radio links from commercial mobile telecom networks
- MAHDI ZARGHAMI, University of Tabriz (Iran)  
Climate change impacts on water availability for Tabriz mega-city

#### **Parallel session 'Future city design- design II'**

Chair: ARJEN HOEKSTRA, Technical University Twente

- KARL-HEINZ GAUDRY, University of Freiburg, DE  
Calakmul & Campeche: pioneering in sustainable spatial planning
- MARIA GUERREIRO AND ISRAEL GUARDA, Lisboa University PT  
Bioclimatic urbanism and regional design in Portugal
- ARWIN VAN BUUREN AND JURIAN EDELENBOS, Erasmus University Rotterdam  
Creating waterproof cities

#### **Parallel session 'Greening the city II'**

Chair: ROB LEUVEN, Radboud University Nijmegen

- KLAAS METSELAAR, HARM GOOREN ET AL., Wageningen University  
Water balance of green roofs and possible natural vegetation types
- MARJOLEIN HELDER, D. STRIK ET AL.  
The electricity producing green roof – The ultimate solution for climate mitigation in the city?
- FAHRIA MASUM, Technical University Muenchen  
Management of urban natural environment: Need for peoples' participation

#### **Parallel session 'Public health and urbanization II'**

Chair: MAUD HUYNEN, Maastricht University

- DICK VAN DER KOOIJ, PAUL VAN DER WIELEN ET AL., KWR Water Cycle Research Institute  
Legionella pneumophila and other opportunistic microbial pathogens in engineered water systems: a potential public health threat intensified by climate change
- FALENDRA KUMAR SUDAN, University of Jammu, India  
Mumbai floods: A case study of impacts, vulnerability and adaptability
- ETHEL BRITS, IDES BOONE ET AL., Institute of Public Health (IPH), Brussels BE  
Monitoring the effects of climate change on health in Belgium

15.45–16.00

**Coffee/tea break**

16.00–17.00

#### **Closing Plenary—University research and societal demands**

Chair: FLORRIE DE PATER, Kennis voor Klimaat and VU University Amsterdam

Keynote speaker: PIER VELLINGA, Wageningen University

Discussants:



- RUBEN VERBAAN, Dura Vermeer Construction Company
- JUPIJN HAFFMANS, Milieucentrum Amsterdam NGO
- ARIE VOORBURG, ARCADIS Consultancy
- ALDERMAN OF DUTCH MUNICIPALITY (to be confirmed)

17.00

**Closing**

18.00–19.30

**PM Welcome reception, 2009 Amsterdam Conference**