



# **Climate-KIC Ph.D. Thematic Summer School 2014 'Transforming the Future Built Environment'**

## **Making and Prototyping for a Sustainable Future**

<http://www.climate-kic.org/events/phd-summer-school-transforming-the-future-built-environment>

**July 7 – 18, 2014  
Rotterdam**



# Summer School Theme



## Transforming the future built environment

This two-week dynamic programme will take place in Rotterdam, the Netherlands, and addresses the challenges of refurbishing the existing building stock

It is organised in close collaboration with the partners from the Climate-KIC Flagship 'Building Technologies Accelerator' (BTA).

### **About BTA**

To support the transformation of the built environment, BTA aims to stimulate the dissemination and acceleration of new low carbon technologies into the market.

BTA also addresses the climate impact of new building technologies combined with human interaction.

# Summer School Theme



## Prototyping and fabrication technologies

During this Summer School, you will.....

- Learn **design methods** as well as **innovative prototyping** and **fabrication technologies** in the development of product- and service-systems for the future built environment.
- Apply these in **the real-life context** taking into account challenges of **new low carbon technologies** as well as acceptance of **multiple stakeholders**.
- **Use prototyping as an insight-giving tool** to facilitate communication among different urban development stakeholders.
- Be encouraged to consider product and services that can **accelerate the adoption process**.

# Summer School Theme



## Prototyping and fabrication technologies

Get to work at the **Fablab Rotterdam** and **RDM Makerspace** to make your concept tangible. Prototype your idea in the real world by using a carcass at Heijplaat, the creative hotspot for building in Rotterdam. Heijplaat also hosts innovative projects like Concept House Village, Aquadock and Earthship.

Get your hands 'dirty' with tools like **3D printing**, **Lasercutting**, **Sketching**, **Context mapping** and more! Together we will create a sustainable future by making and prototyping the built environment!

For more information about the innovative projects on Heijplaat, have a look at the following websites:

- [www.concepthousevillage.nl](http://www.concepthousevillage.nl)
- [www.rdmcampus.nl](http://www.rdmcampus.nl)
- [www.rdm-makerspace.nl](http://www.rdm-makerspace.nl) (currently only in Dutch)

# Summer School Program



## Key Note Speakers

- [Prof. dr. ir. Arjan van Timmeren](#), Delft University of Technology  
(speaker on Urban Design & Innovative Facades)
- [Prof. dr. Pieter Jan Stappers](#), Delft University of Technology  
(speaker on Context Mapping / Value of Prototyping)
- [Research Professor Peter Troxler](#), Rotterdam University of Applied Sciences  
(speaker on revolution in the Make Industry and Fablabs)
- [Prof. dr. David Keyson](#), Delft University of Technology  
(speaker on Energy Management Systems)
- Katrin Hauser, Manager of the Climate-KIC Flagship Building Technologies Accelerator (BTA) (speaker on Climate-KIC, BTA and business modeling)

***More information about other key note speakers and the other internationally renowned experts that are involved with this programme will follow shortly!***

# Summer School Program



## Program week one: 7<sup>th</sup>-11<sup>th</sup> of July

### **Sunday, July 6th**

Arrival day, voluntary welcome dinner

### **Monday, July 7th**

Welcome session

Keynotes (Theme, Urban Design & Second Skin)

Case introduction: gather & analyse

### **Tuesday, July 8th**

Co-creation session: generate

Workshop Visual Thinking

Keynotes (Sustainability, Urban Design)

### **Wednesday, July 9th**

Co-creation session: choose

2D or 3D Prototyping workshop

Keynote (Prototyping)

### **Thursday, July 10th**

Co-creation session: prototype

2D or 3D Prototyping workshop

Workshop Visioning the future

### **Friday, July 11th**

Excursion in Rotterdam

Case study

Co-creation session: gather

### **WEEKEND**

Time for the group to work on assignments

Exploring Rotterdam (North Sea Jazz Festival)

Workshop around Rotterdam

# Summer School Program



## Program week two: 14<sup>th</sup>-18<sup>th</sup> of July

### **Monday, July 14th**

Keynote

Co-creation sessions: generate & prototype

Dragons Den of first concepts

### **Tuesday, July 15th**

Keynotes (Businessmodelling)

Co-creation session: businessmodelling

Excursion Heijplaat

### **Wednesday, July 16th**

Keynote (Electronics, Internet of Things)

Workshop Electronics

World Cafe with external partners

### **Thursday, July 17th**

Co-creation sessions: work on the case

Preparation for the final presentation

### **Friday, July 18th**

Presentation of group works to a jury consisting  
of academic experts on transition  
management, practitioners and city  
representatives

Announcement of jury decision

Debriefing Session

# Organizational Issues



## How to apply

The application form can be found here:

<https://docs.google.com/forms/d/1j8whxsxJZIZ2zulrOJZMgi6PjTTwMMvqf5FpeL5ZIWM/viewform>

## Application Deadline

The deadline for the second round of application forms is **Monday 2<sup>nd</sup> June, 2014**

*Places are limited!*

*Applications submitted after the deadline will be marked late and will be considered after the review of applications received on or before 2<sup>nd</sup> June. Letters of acceptance will be sent out in early June.*



# Organizational Issues



## Who can participate?

We welcome all candidates with an interest in the built environment, climate change, making and prototyping and design, including: Ph.D.'s, postdocs, excellent Master students and driven professionals. Climate KIC Ph.D.'s have priority to participate in this Summer School.

### **Climate-KIC Label**

Climate-KIC Ph.D.'s in year 2 or 3 can use this thematic Summer School to obtain the [Climate-KIC label](#). All Climate KIC PhD students should take part in a thematic summer school in their second or third year.

# Organizational Issues



## Costs

### **Climate-KIC Ph.D.'s**

The admission for Climate-KIC Ph.D.'s is free. Climate-KIC covers the full costs of the programme including accommodation (in double rooms) and breakfast, lunches and dinners 5 times per week and local transportation. All participants need to cover the travel costs to/from Rotterdam themselves.

### **Other participants**

All other participants are required to pay a €490,- admission fee which covers access to the full Summer School programme, lunches and dinners 5 times per week and local transportation. Accommodation costs and travel costs to/from Rotterdam are to be paid by the participants at their own expense.

## English

The summer school will be held in English, in order to participate, candidates should have sufficient language skills.

# Curious about Rotterdam?

## Activities in Rotterdam & surroundings

- North Sea Jazz Festival:  
[www.northseajazz.com/en](http://www.northseajazz.com/en)
- Visitors information  
Rotterdam  
[www.en.rotterdam.info/visitors/](http://www.en.rotterdam.info/visitors/)
- Visitors Information Delft  
[www.delft.nl/delften/Tourists](http://www.delft.nl/delften/Tourists)

# Preliminary Program Ph.D. Summerschool

## Monday 7th of July



## Tuesday 8th of July



## Wednesday 9th of July



## Thursday 10th of July



team

plenary

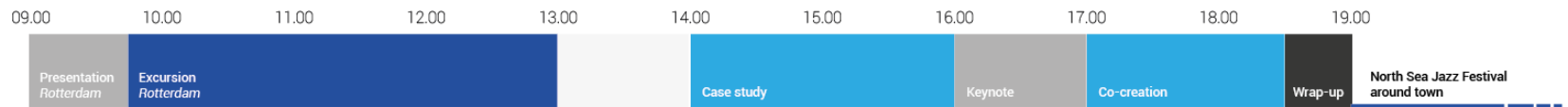
keynote

workshop

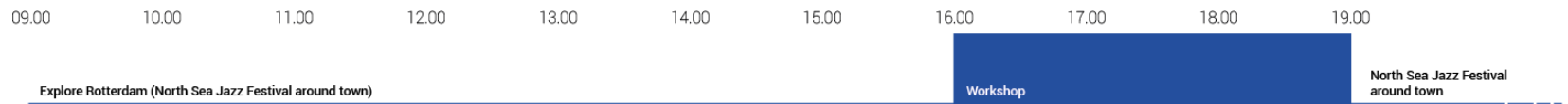
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# Preliminary Program Ph.D. Summerschool

## Friday 11th of July



## Saturday 12th of July



## Sunday 13th of July

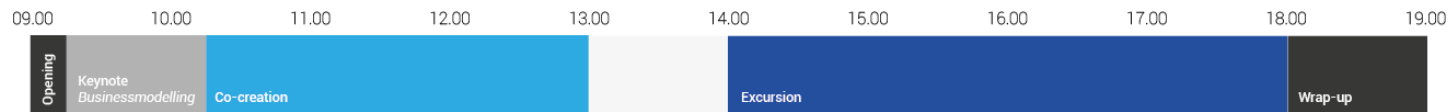


## Monday 14th of July



# Preliminary Program Ph.D. Summerschool

## Tuesday 15th of July



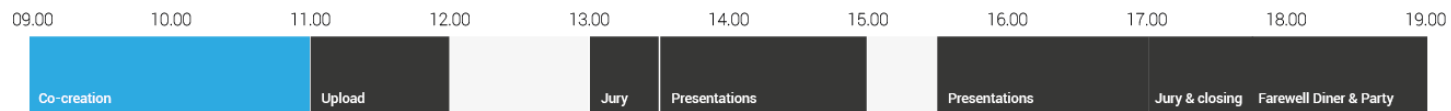
## Wednesday 16th of July



## Thursday 17th of July



## Friday 18th of July



team



plenary



keynote



workshop



break



Questions?

Email: [phdsummerschool@tudelft.nl](mailto:phdsummerschool@tudelft.nl)

Website:

<http://www.climate-kic.org/events/phd-summer-school-transforming-the-future-built-environment/>

