

# Touching Cellulose

[Rethink construction] 13 - 24 September 2021

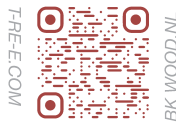
Open Public Lecture Series & Registered Student Workshop

Introduction

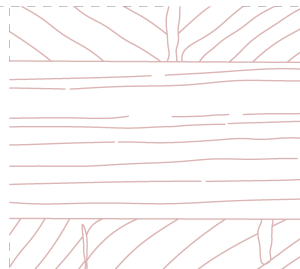
Next generation of wood architecture. Architecture and the building industry are in need of a paradigm shift, due to the growing awareness of their huge contribution to global climate change and ongoing depletion of mineral resources. In order to counter carbon emissions and sourcing building material sustainably, future design and construction is unthinkable without a massive use of timber, the only structural building material that stores carbon while it grows in our forests! The introduction of mass timber at the end of the 20th century as an alternative to concrete and steel was already a huge innovation for the construction industry. Now it is time for the **next generation of wood architecture** in which computer aided design and robotic manufacturing go hand in hand with a revival of craftsmanship and wood building culture.

Touching Cellulose is initiated by **Gilbert Koskamp** and further developed with **Anne Beim**, **Felix Waechter** and **Pierre Jennen** together with **Delft University of Technology**, the **Royal Danish Academy** and **Technical University of Darmstadt Germany**.

This year Touching Cellulose is a two part online series launched on 23 April 2021. These lectures, which are found online on the Touching Cellulose website, include speakers like Fabio Gramazio and Pablo van der Lugt. For the second part, **13-24 September 2021**, we are hosting online seminars that are open to the public until the 22<sup>nd</sup> and a international design workshop for registered students.



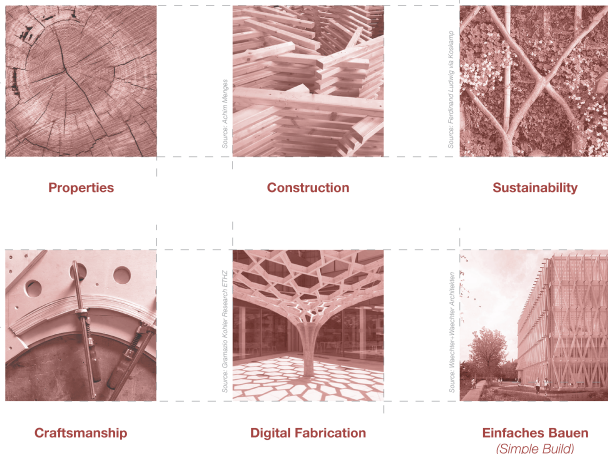
Touching Cellulose Website



Workshop



The aim of the ten day workshop is to **touch and learn about the building culture of wooden architecture**. The first week explores timber design through analytical tools, i.e. 2D and 3D drawing and model-making of preselected case studies. During the second week, a utilitarian wood construction will be developed through the case study analysis and presented in drawings and physical form. Participants will have resources available to them including personalized studio sessions and recorded online lectures. Design will be carried out in international mixed groups and presented as a manifesto of Touching Cellulose.



Organised by:



Week 1

## Programme Lineup

- Mon | 13<sup>th</sup>**  
0845 - 0930 **Opening Lecture & Tools for TREE\_TimberREengineered**  
Ing. Arch **Gilbert Koskamp** - TU Delft, Ssse|OvO, NL
- 0930 - 1100 **Keynote Lecture: Inventive Dedication 'draw it we build it' | No Limits**  
Dipl. Ing. ETH|SIA H.Prof **Hermann Blumer** - FH Aachen, DE - Creation Holz AG, CH
- 1645 - 1815 **Radical [wood] Tectonics | The detail is crucial**  
Prof. **Anne Beim** - Royal Danish Academy, CINARK, DK
- Tues | 14<sup>th</sup>**  
0845 - 1015 **Rethink Structure | Timber Structuralism**  
Prof. **Felix Waechter** - TU Darmstadt, Waechter&Waechter Architekten, DE
- 1645 - 1815 **Design Challenges of a Mass Timber Office Building | T3 Bayside Toronto**  
**Elizabeth Nichols** MSc - New York, US
- Wed | 15<sup>th</sup>**  
0845 - 0930 **Circular Social | Wood anchored - LCV Lifecycle value**  
Ir. **Oscar Vos** - krf Amsterdam, NL
- 0930 - 1015 **City Wood Pavilion | Insights in assembly of wet sawn wood**  
Ir. **Florian Eckardt** - architectinamsterdam, NL
- 1645 - 1815 **Future Tree | Complex Timber Structures and Digital Concrete**  
Dr. **Aleksandra Anna Apolinarska** - Gramazio Kohler Research, ETH, CH
- Thurs | 16<sup>th</sup>**  
0845 - 1015 **Craft and Timber | Frluftsbygning (Outdoor Building), Silkeborg**  
**Simeon Østerlund Bamford** cand.arch. MAA - ReVaerk Arkitektur, DK
- 1645 - 1815 **Didactic Architecture | Furbished by construction**  
Ir. **Mechthild Stuhlmacher** - Korteknie Stuhlmacher Architekten, BE, NL
- Fri | 17<sup>th</sup>**  
0845 - 1015 **Prototyping with PAPER | Constructed by Cellulose**  
Prof. **Ulrich Knaack** - TU Darmstadt, DE
- 1645 - 1815 **BAUBOTANIK | Build with Tree and Time**  
Prof. Dr. **Ferdinand Ludwig** - TU Munich, DE

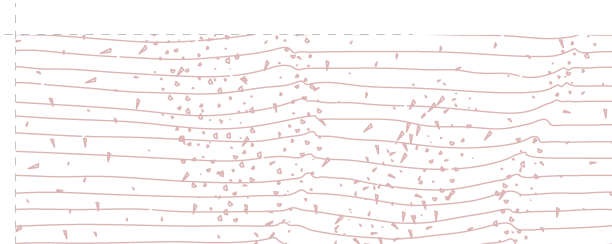
Week 2

- Mon | 20<sup>th</sup>**  
0845 - 0945 **Made almost entirely of wood | Re-use meets craftsmanship**  
Ir. **Pierre Jennen** MSc - TU Delft, Ssse|OvO, NL
- 1645 - 1815 **Intelligent Fabrication with Timber | Resolution of Tectonics**  
Prof. **Achim Menges** - TU Stuttgart, DE
- Tues | 21<sup>st</sup>**  
0845 - 0930 **Regional regenerative building materials | Building methods and products**  
**Bouwtuin** - TU Delft, NL
- 0930 - 1015 **ONE TOOL for a complete building | Resolution of joinery**  
Ir. **Nick Krouwel** - ANK Atelier Krouwel, NL
- 1645 - 1815 **Building Culture of Simplification | Insight in Deciduous Timber**  
Dipl. Ing. **Anne Niemann** - TU Munich, DE
- Wed | 22<sup>nd</sup>**  
0845 - 1015 **Case Study | Landwirtschaftliches Zentrum (Agricultural Center), Salez CH**  
**Andy Senn**, Architekt BSA SIA - AndySenn Office, CH
- 1645 - 1815 **Timber Construction | History**  
Lecturer Not Confirmed

\*Time in Central European Time (CET)

Past Lectures

Past Lectures by **Pablo van der Lugt**, **Fabio Gramazio**, **Edmund Green & Ludvig Sundberg**, **Anne Beim**, **Felix Waechter** available online.



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