

# Future of Construction 2024

USI Mendrisio, Switzerland  
5-7 November

# Programme

## Workshops

Tuesday, 05.11.24

10:30 – 17:30

### Workshop 1

*Turconi 1  
FMAA Lab*

#### Future Earth\*

Sacha Cutajar, USI  
Ema Krakovska, TU Munich  
Joschua Gosslar, TU Braunschweig

*\*This workshop spans over two days and starts on Monday, November 4*

### Workshop 2

*Turconi 1  
Blumer Lab*

#### From Waste to Resource

Beril Onalan, Eleftherios Triantafyllidis & Ioanna Mitropoulou, ETH Zurich

### Workshop 3

*Villa Argentina 0  
V0.03 (Sala Riunioni)*

#### Preserving Knowledge & Data in Digital Fabrication

Adrian Pöllinger, Laurence Crouzet & Li Cheng, ETH Zurich

### Workshop 4

*Canavee +3  
FMAA Lab*

#### Architecture and AI

Pierre Chèvremont, Lidor Gilad, Stefano Hu & Andrea Suardi, Itten+Brechbühl AG

### Workshop 5

*Canavee 0  
Galleria*

#### Augmented Carpentry

Andrea Settimi, EPFL

### Workshop 6

*Villa Argentina +1  
V 1.07*

#### Learning from "Failure"

Kim Nørgaard Helmersen, ETH Zurich  
Anastasia Bedova, USI Startup Centre

### Workshop 7

*Turconi 1  
TAM Teatro*

#### Scaling New Materials for Net Zero

Sacha Cisar, Radicant AG  
Nabila Pranoto, Holcim Group  
Thibault Demoulin, Oxara AG  
Chrissie Muhr, Experimental Foundation  
Kika Brockstedt, revalu  
Götz Hilber, Rematter Earth

### Workshop 8

*Canavee 0  
Galleria*

#### Collaborative Structure

Yves Ebnöther, Konrad Graser, David Jenny & Eburne Morales, ZHAW

### Workshop 9

*Canavee 0  
Atelier Mateus*

#### Undo: Human-Robot Reconfiguring Timber

Eleni Skevaki, Marirena Kladefтира, Ziqi Wang,  
Jingwen Wang, Sihui Wu & Stefana Parascho, EPFL

17:30

#### Welcome Reception

Palazzo Canavée

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## Symposium Day 1

Wednesday, 06.11.24

- 09:00 – 09:30 **Introduction to Future of Construction 2024**  
**Ena Lloret-Fritschi**, USI & **Silke Langenberg**, ETH Zurich
- 09:30 – 09:45 **Welcome**  
**Luisa Lambertini**, Rector USI  
**Walter Angonese**, Dean, Accademia di architettura USI
- Session 1**      **Activating Building Cultures**
- 09:45 – 10:30 **Keynote** **Stuart Smith** *Living in a Material World*  
ARUP / Holcim Foundation for Sustainable Construction
- 10:30 – 11:00 **Talks**  
**Jacqueline Pauli**, ZPF Ingenieure / ETH Zurich *The Future of Structures*  
**Matthias Brenner**, ETH Zurich *High-Tech Heritage: WAAM for Façade Repair*
- 11:00 – 11:30 **Coffee Break**
- 11:30 – 12:00 **Industry Insights**  
**BETONSUISSE**, Patrick Suppiger *Concrete Award 2025: Tradition & Future*  
**RE-WIN**, Martina Bischof *Reuse, Resilience and Reconstruction*  
**Quadra Ligna**, Jochen Ganz *Robots in Preservation*
- 12:00 – 12:45 **Panel Discussion** moderated by  
**Konrad Graser**, ZHAW & **Valens Frangez**, Halter
- 13:00 – 14:45 **Lunch Break and Poster Session**
- Session 2**      **Digitizing Processes**
- 14:45 – 15:15 **Talks**  
**Ana Anton**, ETH Zurich *Tor Alva: Bridging Tradition and Innovation*  
**Robert Flatt**, ETH Zurich *Sustainability of (Digital) Concrete*
- 15:15 – 15:45 **Industry Insights**  
**European Cultural Centre**, Hadi El Hage *Venice: Platform for Novelty in Construction*  
**Foldcast**, Fabio Amicarelli & *Foldcast SlabX: from Research to Industry*  
**Müller-Steinag**, Cédric Domon *LAYERED: Spray-based mobile plaster printing*  
**LAYERED**, Elliott Sounigo
- 15:45 – 16:30 **Panel Discussion** moderated by  
**Birgitta Schock**, SIA & **David Jenny**, ZHAW
- 16:30 – 17:15 **Keynote** **Mario Carpo** *AI Tectonics, or the culture wars of building technology*  
UCL Bartlett
- 17:30 – 18:00 **Closing Day 1 | Poster Awards**  
**Ena Lloret-Fritschi**, USI & **Silke Langenberg**, ETH Zurich  
Handover to **NCCR DFAB** and **Design++** for Future of Construction 2026
- 18:00 **Opening Party**  
Palazzo Turconi

## Symposium Day 2

Thursday, 07.11.24

- 09:30 – 09:45 **Welcome**  
**Selen Ercan Jenny**, USI & **Orkun Kasap**, ETH Zurich
- Session 3**      **Defining Materials**
- 09:45 – 10:30 **Keynote** **Roger Boltshauser** *Material Based*  
Boltshauser Architekten / ETH Zurich
- 10:30 – 11:15 **Talks**  
**Tsz Yan Ng**, University of Michigan *Hygroscopic Envelope-Building Enclosures*  
**Viviana Pozzoli**, Equipo de Arquitectura *Down to Earth*  
**Fabio Gramazio**, ETH Zurich *Malleable Bricks*
- 11:15 – 11:45 **Coffee Break**
- 11:45 – 12:15 **Industry Insights**  
**T2CM**, Claudia Eugenin Soto *Circular Economy: Tailings as Construction Material*  
**Design ++**, Anton Savov *What is Design++*  
**Zukunft Bauen**, Birgitta Schock *Forum Future of Construction*
- 12:15 – 13:00 **Panel Discussion** moderated by  
**Kathrin Dörfler**, TU Munich & **Bernd Bickel**, ETH Zurich
- 13:00 – 14:45 **Lunch Break**
- Session 4**      **Changing Traditions**
- 14:45 – 15:15 **Talks**  
**Maik Ilmer** & **Felix Thies**, Ilmer Thies *Circular Building, Müllerstrasse Zürich*  
**Quintus Miller**, Miller & Maranta / USI *As found is a small affair: it's about being careful*
- 15:15 – 15:45 **Industry Insights**  
**Holcim**, Clemens Woegerbauer *Turning in Circles - and loving it!*  
**Scandens**, Kuba Szczesniak *Digital Transformation in Renovation Planning*  
**irmos**, Yves Reuland *Data in the Debris: Insights to Preserve Buildings*
- 15:45 – 16:30 **Panel Discussion** moderated by  
**Muck Petzet**, Muck Petzet Architekten / USI & **Ludovica Molo**, Studio we / BSA
- 16:30 – 17:15 **Keynote** **Annette Gigon** *open end...*  
Gigon Guyer Architekten
- 17:30 – 18:00 **Closing Day 2**  
**Ena Lloret-Fritschi**, USI & **Silke Langenberg**, ETH Zurich
- 18:00 **Closing Apéro**  
Palazzo Canavée

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## Main Sponsor



**HOLCIM  
FOUNDATION**  
SUSTAINABLE CONSTRUCTION

## Workshop Sponsors



## Outreach Partner



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**BETONSUISSE**

## Hosts



Accademia  
di  
architettura

**ETH** zürich

## Partners



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