

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+Brechtbühl 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 & Edurne Morales, ZHAW

Workshop 9

*Canavee 0
Atelier Mateus*

Undo: Human-Robot Reconfiguring Timber

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

17:30

Welcome Reception

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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**
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 Démon *LAYERED: Spray-based mobile plaster printing*
LAYERED, Eliott 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**

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**
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**

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