

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 Gossler, 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 Helmerson, 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

Future of Construction 2024

USI Mendrisio, Switzerland
5-7 November

Programme

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, 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**

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 *Mallable 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 *Forum Future of Construction*
Zukunft Bauen, Birgitta Schock

12:15 – 13:00 **Panel Discussion** moderated by
Karin 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**

Future of Construction 2024

USI Mendrisio, Switzerland
5-7 November

Main Sponsor



**HOLCIM
FOUNDATION**
SUSTAINABLE CONSTRUCTION

Workshop Sponsors



Outreach Partner



Netzwerk Nachhaltiges Bauen Schweiz
Réseau Construction durable Suisse
Network Costruzione Sostenibile Svizzera
Sustainable Construction Network Switzerland

Supported by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Departement des Innern EDI
Bundesamt für Kultur BAK



BETONSUISSE

Hosts



Accademia
di
architettura

ETH zürich

Partners



National Centre of Competence
in Research
Digital Fabrication



School of Architecture,
Design and Civil Engineering

EPFL

sia

schweizerischer ingenieur- und architektenverein
société suisse des ingénieurs et des architectes
società svizzera degli ingegneri e degli architetti
swiss society of engineers and architects



Bund Schweizer Architektinnen und Architekten
Fédération des Architectes Suisses
Federazione Architetto e Architetti Svizzeri
Federaziun Architectas ed Architects Svizzers



USI
Startup
Centre