

#EUCircularTalk – 26.3.2025
Continuing Education at ETHZ
Regenerative Materials

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Chair of Sustainable Construction



CAS/DAS ETH in Regenerative Materials



Haus Rauch, Austria, 2008



Center of research and discovery on biodiversity, France, 2014



Kopfbau Halle 118 – ZHAW Exhibition, Switzerland, 2021



International teaching programs entirely dedicated to
earth, bio-based and reused materials and construction techniques.

CAS/DAS ETH in Regenerative Materials

ETH zürich | School for Continuing Education



DBAUG

CAS-RM-ESS
(Every year, FS)
Next edition: Jan 2026

ETH zürich | School for Continuing Education



DBAUG

CAS-RM-HYGRO
(Every two years, HS)
Next edition: Sept 2025

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DBAUG

CAS-RM-STRUCT
(Every two years, HS)
Next edition: Sept 2026

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DBAUG

DAS-RM
(Combining two CAS-RM)

CAS/DAS ETH in Regenerative Materials



Theoretical and experimental lectures



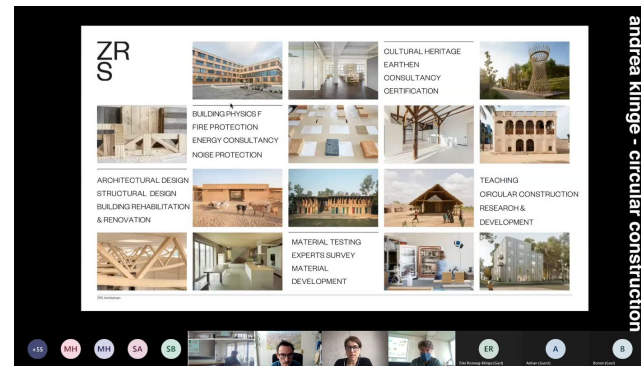
Participative engagement



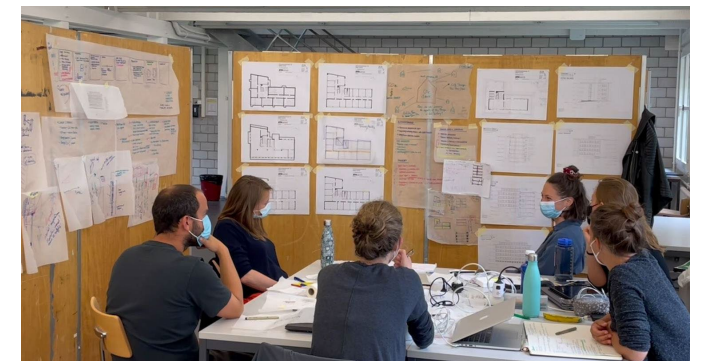
Hands-on exercises



Visits of inspiring projects



Digital guest lectures (public)



Project-based learning

CAS ETH in Regenerative Materials - Essentials

Module 1 : Discovering Regenerative Materials (KW5)	Monday 27.1.25 - Friday 31.1.25
Module 2 : Earth construction (KW10)	Monday 3.3.25 - Friday 7.3.25
Module 3 : Bio-based construction (KW15)	Monday 7.4.25 - Friday 11.4.25
Module 4 : Re-valuing the building stock (KW20)	Monday 12.5.25 - Friday 16.5.25
Module 5 : Regenerative renovation (KW25)	Monday 16.6.25 - Friday 20.6.25

This program is structured with **five Modules of one week each, distributed over one semester.**

They aim to question our conventional construction techniques to promote regenerative building materials from resource extraction to construction site, during building operation and until the end of its use.

Target Audience

Participants 2024 edition

18 people

10 countries

Bjerner Anna
Sweden
MSc Architecture
Architect

Beatriz Lage Caro Quintiliano
Portugal
MSc Architecture
Architect

Eileen Dorer Li
Switzerland
Dipl.-Ing.
Architecture
Architect /
Consultant

Leonard Jurij Von Aster
Germany
MSc Architecture
Founder, Creative
Director and CEO

Sheida Vahedi
Switzerland
MSc Architecture
Co-founder
Architect project
leader

Constanze Hopf
Germany
MSc Civil
Engineering
Project Manager

Irene Giubbini
Switzerland
MSc Architecture
Project Manager

Letizia Morgante
Italy
MSc Architecture
Architect

Soheil Shahnazari
Iran
MSc Architecture
Architect

Cristina Pop
Romania
MSc Architecture
Project Leader
Design

Johanna Mühlich
Germany
MA Interior design
Project lead

Marine Cobo Molina
Switzerland/Spain
MSc Architecture
Project Manager/
Architect

Tim Ost
Belgium
MSc Architecture
Design principle

Duarte Goncalves Ferreira Brito
Portugal
Dipl. Architecture
Project Leader /
Architect

Karin Hanning Lundberg
Sweden
MA Architecture
Correspondent
Architecture Magazin

Markéta Korbéusová
Czech Republic
Dipl.-Ing. Architecture
Project Leader/
Architect

Patrick Krecl
Switzerland
MSc Architecture
Project Manager

Verena Jacob
Germany
MSc Architecture
Project manager

**Project managers, engineers, architects, building contractors,
members of city technical services, NGO representatives...**

A limited group of professionals to favor intense interactions and high-quality learning.

MOOC ETH in Regenerative Materials and Construction

Format: Massive Open Online Course

Partnership: Inbar, Amaco, Hilti Foundation

Territorial audience: Global

Pre-requisites and intended audience: open for all with interest in sustainability in construction, including suppliers builders carpenters public sector, etc.

Content: regenerative sustainability in construction: system thinking, materials and technologies

Scope: disseminate, educate, create momentum, inform on further resources and valuable trainings and directories for professional

Accessibility: online course, open access



Atlas of Regenerative Materials

Project. Atlas of Regenerative Materials

Partnership: ETHZ, EPFL

Territorial audience:

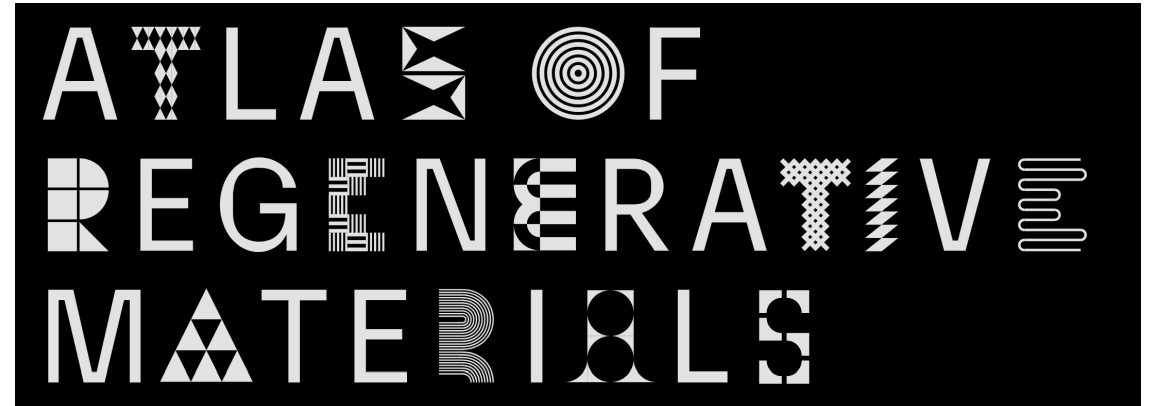
First step: Switzerland

Long term: Connect with existing database in Europe and elsewhere

Content: non-profit website that assembles and interconnects knowledge about construction with bio- and geo-sourced building materials.

Scope: collaboration of researchers from academia and industry, create a comprehensive and reliable repository

Accessibility: open access, community-driven web repository



FILTERS

Type here...

- Natural Resources **2**
- Building Materials
- Technical Constructions
- Professionals
- Buildings
- Intervention Type

- Earth
- Rock
- Straw
- Hemp
- Wood
- Other Fibers

- Map
- List



Professional

TERRABLOC

- Material Producer
- Earth

For over 10 years, Terrabloc has produced sustainable, locally sourced earth-based materials, transforming excavation waste into stabilized compressed earth blocks (CEBs) for masonry construction. This recycling of excavation soil into a valuable building resource exemplifies circular economy principles and innovation. External life-cycle analyses confirm that Terrabloc products have significantly lower embodied energy than conventional materials like plaster, reinforced concrete, or fired bricks.

Professional

Atelier SCHMIDT GmbH

- Architect
- Straw

Atelier Schmidt was created by Werner Schmidt, a Swiss architect whose atypical career began with an apprenticeship as a mason. He graduated in architecture from the University of Applied Arts in Vienna in 1989. In the same year, he set up his own architectural practice in the Grisons region of Switzerland. He enjoys international recognition as a pioneer in the use of straw as both insulation and structural material. To date, he has designed over 20 buildings incorporating straw, located in Switzerland, Germany and South Tyrol, 10 of which use load-bearing straw bales.



Professional

LEHMAG AG

- Material Producer
- Earth

Professional

LEHMAG AG

- Material Producer
- Earth

Professional

atba

- Architect
- Building Physics
- Earth
- Wood
- Straw

Founded in 1999 by Stéphane Fuchs, atba became a corporation in 2008, with employee ownership introduced in 2015. Our team includes architects, draftsmen, construction economists, thermal engineers, and administrative staff, dedicated to merging architecture and ecology within a financially responsible approach. Architecture, healthy living spaces, the environment, and renewable energy are at the heart of our work, aimed at creating enduring designs that meet your desires.

Thank you for your interest!
Any questions?

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ETHZ

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sc.ibi.ethz.ch/cas-edu