

# Summer Workshop: Bamboo Greenhouse

Collaborative Design and Construction with Bamboo in Kamanuma, Japan



©Siena HIRAO, Kamanuma, Chiba, Japan

## Organizer:

Chair of Architectural Behaviorology<sup>\*1</sup>, IEA, ETH Zürich; Yoshiharu Tsukamoto Laboratory, Institute of SCIENCE TOKYO<sup>\*2</sup>; Small Earth association.

Learning Goal: Behavior Observation and Research / Design Development with bamboo / Research report / Building together

Teaching Team: Prof. Momoyo KAIJIMA<sup>\*1</sup>, Tanguy CAVERSACCIO<sup>\*1</sup>, Lowis GUJER<sup>\*1</sup>, Prof Yoshiharu TSUKAMOTO<sup>\*2</sup>, Siena HIRAO<sup>\*2</sup>

## Topic:

How can architecture engage with its environment, existing structures, materials, and community? This summer school invites students to the site of Satoyama landscape of Kamanuma, Chiba, Japan.

A network of farmlands and forests maintained through collective care. Facing challenges from an aging population, the community collaborates with urban visitors to preserve this unique cultural and ecological environment. The goal is to design and build a bamboo greenhouse, a multifunctional structure for tools, workshops, and gathering spaces, developed in dialogue with the site and its people.

**At ETH:** Students will analyze the site, materials, and needs, proposing design solutions through models, drawings, and mock-ups, compiled into individual project report that will be assemble into one publication.

**On-Site:** In Kamanuma, students will refine and construct the selected designs alongside local farmers and bamboo artisans, incorporating traditional craft into their proposals and learning from the place's rhythms and resources.

This workshop emphasizes architecture as a thoughtful response to a location, supporting an exchange of ideas that blends academic research with the knowledge of local practices and craft.

## Program and location:

Kick-off:	20 February	ETH ONA G27 9:00 - 12:00
Idea development:	Every Thursday 27 February - 13 March	ETH ONA G27 9:00 - 12:00
Idea competition	13 March	ETH ONA G27 9:00 - 12:00
Design development:	Every Thursday 27 March - 10 April	ETH ONA G27 9:00 - 12:00
Final Design	17 April	ETH ONA G27 9:00 - 12:00
Building preparation	2 June - 6 June	Zürich
Meeting in Tokyo	8 June	Tokyo
On site	9 June - 27 June	Kamanuma

Students: 10 students at D-ARCH

Assignment: Vertiefungsarbeit, 6 ECTS at the Chair of Architectural Behaviorology

Finances: Accommodation will be supported in Kamanuma. Participants must arrange their own travel to Tokyo.

## Application:

please apply by January 10 2025, sending an email to [gujer@arch.ethz.ch](mailto:gujer@arch.ethz.ch) with a motivation letter (1 page), a portfolio (5 pages) and cv.

Contact: [gujer@arch.ethz.ch](mailto:gujer@arch.ethz.ch)

DARCH  
Department of Architecture

ETH zürich