

more info

summerschool.cas-at.com



6/09 - 10/09 (ONLINE)
20/09 - 24/09 (ONSITE)

REEDCOB®

4TH INTERNATIONAL SUMMER SCHOOL

EARTH ARCHITECTURE
REGENERATIVE DESIGN
BIO BASED MATERIALS
SUSTAINABLE DEVELOPMENT

ORGANIZED BY



KAIROS LAB



PARTNERS



more info

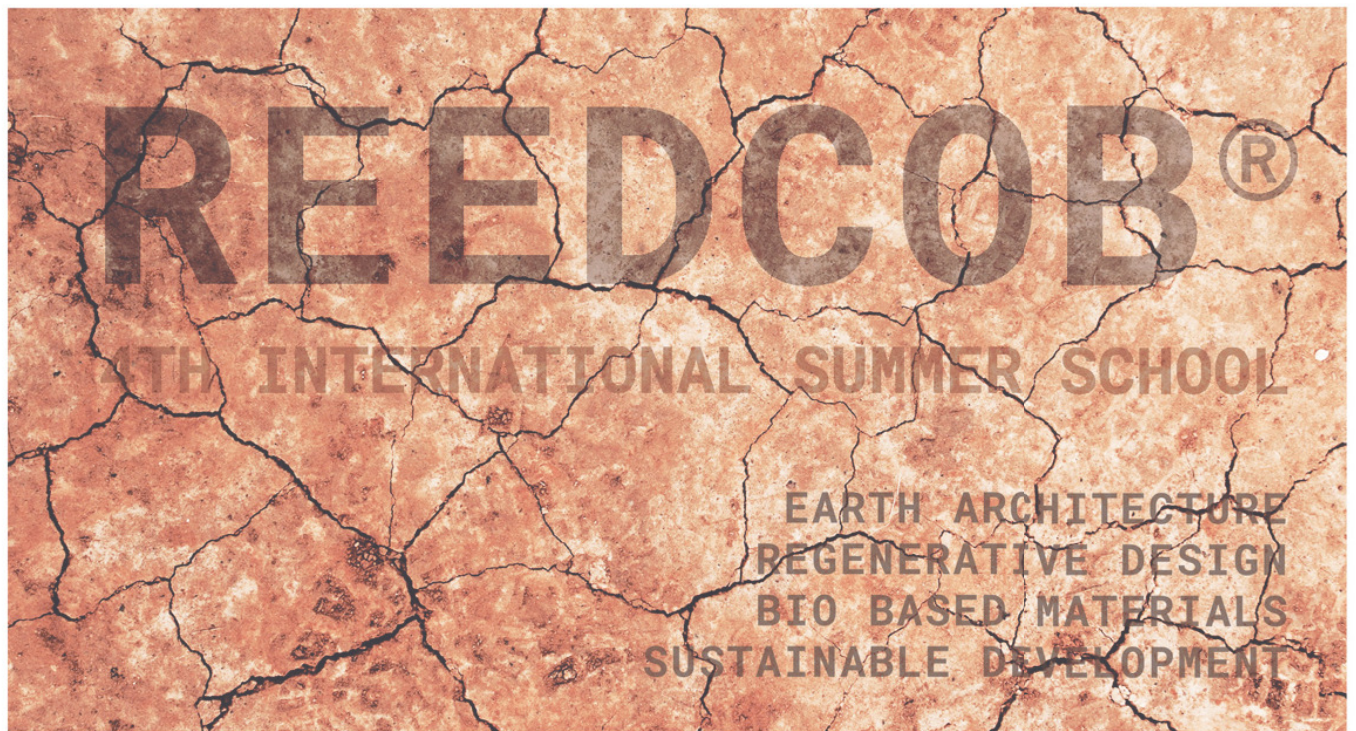
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WORKSHOP PROGRAM

ONLINE / ONSITE

6/09 - 10/09 (ONLINE)
20/09 - 24/09 (ONSITE)



ORGANIZED BY



KAIROS LAB

PARTNERS



INTRODUCTION

In 2021, the 4th **REEDCOB**[®] international summer school, will be held **ONLINE** (through ZOOM) and **ONSITE** (Egypt), depending on the global situation.

The **ONLINE** period will be held from the 6th September to the 10th September. The **ONSITE** period will be held from the 20th September to the 24th September.

This Summer School is organized by CAS Studio, Ezbet Project, the FCT/NOVA of Lisbon University, Atoms Studio, Kairos Lab, ASU University of Cairo and MSA University.

Portugal, the south of Europe, Egypt, the middle east and the north of Africa have a historical reputation on earth buildings namely rammed earth, adobe and wattle and daub.

At this moment there is an increasing interest about earth constructions and its environmental, economic and social positive impacts.

OBJECTIVES

To promote a building technology called “ReedCob” made with earth and reed canes, as an excellent sustainable technology to small/medium size buildings. This technology started to be developed by CAS Studio and the Eng. Fernando Cartaxo in 2013 and then in 2014 with the fundamental contribution for M&A of the Civil Engineering Dept. of the FCT/NOVA of Lisbon.

After 7 years of monitoring and assessment and construction developments this technology its being developed in the architectural point of view by CAS Studio. Due to its characteristics, this technology can have important impacts in the social, cultural economical and ecological aspects both in the global north and south.

PROGRAM (ONLINE / ONSITE)

The **ONLINE** period will be developed during 5 mornings, including lectures from professional experts and academics, practical exercises to be made remotely, lab sessions about the technology of reed canes and earth and its application in contemporary architecture.

Practice and Theory classes

- Lectures about earth construction principles, earth architecture, low and high tech building technologies, bio based materials, ecological architecture, vernacular, bioclimatics, low tech and high tech technologies, 3d printing and contemporary architecture;

QUICK INFORMATION:

COORDINATION

CAS Studio: Paulo Carneiro, Alina Jerónimo
FCT/NOVA: Paulina Faria, Vitor Silva
Ezbet Project: Manal El Shahat, Islam El Dardaa
Kairos Lab: Samy Afify, Ahmed Toimah
Atoms Studio: Mahmoud El Salamouny
ASU Cairo: Mohamed El Fayoumy, Ahemd Habib
MSA University: Adel Fahmy

PARTICIPANTS

The workshop it's oriented mostly to architecture and engineering students and young professionals and researchers interested on sustainable building technologies.

DATES

6th September - 10th September (ONLINE)
20th September - 24th September 2021 (ONSITE)

WORKSHOP FEES (3 OPTIONS)*:

OPTION A (ONLINE)

(early registration before 25th July) = **340 Euros****
(late registration after 25th July) = **400 Euros****

OPTION B (ONSITE)

(early registration before 25th July) = **620 Euros*****
(late registration after 25th July)= **680 Euros*****

OPTION C (ONLINE + ONSITE)

(early registration before 25th July) = **680 Euros*****
(late registration after 25th July)= **740 Euros*****

*There is one scholarship available

* 2021 Registrations will have a 20% discount in the 2022 Summer School

** and *** VAT included

***Included:

- accommodation+breakfast+lunch+dinner in double bedroom for 6 nights in Tunis village;
- transportation from Cairo to Tunis village in Fayoum (and return);
- farewell dinner and night in tent in the desert;
- all materials and tools for the practical workshop;

WORKSHOP LOCATION

ONLINE
(5 days of lectures + practical exercises)

ONSITE
(5 days hands on experience in El Fayoum Oasis, Egypt)

MORE INFO

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- Practical sessions with hands on dirt exercises;
- Laboratory tests broadcasted about mechanic and thermal resistance;

The **ONSITE** period will be developed in Egypt during 5 days, including:

- Practical training sessions with hands on dirt (walls, plasters and renders with reedcob, ceb and rammed earth);
- Color: Rendering and Plastering with bio based materials and pigments;

ONSITE Background

This year's onsite phase is planned to take place in Fayoum, Egypt, close to the natural park.

Here we will be building a 4x4 meters structure to shelter a mother care in a disadvantaged place called Musa Mizar village. The Summer School participants accommodation will be at a nearby touristic destination called Tunis village.

Musa Mizar village is an economic disadvantaged agricultural village which is one of 10 villages that were built in Fayoum Gouvernante in the 1960's.

Since then, it is lacking infrastructure and suffering from the lack of drinking water. The main source of income for its inhabitants is agriculture; which also suffered from the lack of irrigation water for years. Most of the houses that were built in the 1960s deteriorated over years with no maintenance. Some of those houses were restored by their owners, while many other couldn't afford it.

Our local partners, the MSA University and Prof. Adel Fahmy are currently working on renovating some of the most needing house using natural materials and earth building techniques. In this sense doing this year's Summer School will be a useful training both for the participants and for the local beneficiaries and for the environment, because it will be used as materials earth (reedcob, rammed earth and CEB techniques, renderings and plasters) and a bamboo structure.

Tunis village was also a poor agricultural village that grown into a touristic village. This transformation was due to many artists who decided to move to the village which overlooks a magnificent view of Qaroun Lake and to help the community to develop by themselves. On the top of these artists was Evelyne Porret, who was known as "the lady of Tunis village." Evelyne was a Swiss potterer who moved to Tunis village in the 1980s and founded her Pottery School to teach the children of the village a craft that would help them improve their family's economic situation. Many of her students have today their own workshops in Tunis village and some of their works even reached exhibitions in Europe.

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Prof. Adel Fahmy also decided to build himself a home in Tunis village in the 1980s. And over the years he trained generations of Masons on different vernacular building techniques. Some of them also became contractors and continued to build the village using same techniques.

Some of them also became contractors and continued to build the village using same techniques. Nowadays, Tunis village is a favorite Touristic destination for Egyptians as well as foreign tourists.

Fayoum Gouvernante can be considered the north-eastern gate of The Great Sand Sea. Accordingly, the two villages are nearby many interesting destinations.

There are some natural picturesque attractions like Al-Rayan waterfalls, Magic Lake, Sand dunes, and the Museum of Whales which inhabited Fayoum desert millions of years ago.

There are also some archeological sites ranging from Ancient Egyptians time to Greco-Romans, Such as Medinet Madi, Sok-nopaiou Nesos, Qasr el-Sagha and Qaroun Palace.

At the end of the Summer School there will be a farewell dinner and sunrise in the desert.

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reedcob® schedule

ONLINE

SEPTEMBER 2021

GMT+1/London/Lisbon TIME

6 Monday (EARTH AN INTRO)

welcome / presentation	9:00
L1 - towards an holistic thinking - CAS Studio	9:30
L2 - earth architecture intro - CAS Studio	10:30
L3 - reedcob structure - Carlos Chastre	11:30
EXE - exercise meeting	12:30

7 Tuesday (BIOMATERIALS)

L4 - bioplastics - Clara Davis	9:00
L5 - biobased / earth plasters - Paulina Faria	10:00
L6 - earth 3d printing - WASP	11:00
L7 - bio materials - Hanaa Dahy	12:00
SP1 - students/yp presentation 1	13:00

8 Wednesday (VERNACULAR/COMMUNITY)

L8 - vernacular architecture 1 - Adel Fahmy	9:00
L9 - vernacular architecture 1 - Manal El Shahat	10:00
L10 - participatory design 2 - Li Wan	11:00
L11 - participatory design 3 - Yutaka Sho	12:00
F - film about earth architecture	13:00

9 Thursday (BIOCLIMATICS)

L12 - bioclimatics 1 - Marwa Dabaieh	9:00
L13 - bioclimatics 2 - Shaharin Annisa	10:00
L14 - bioclimatics 3 - Joaquin Karcher	11:00
SP2 - students/yp presentation 2	12:00
EXE - exercise meeting	13:00

10 Friday (CONTEMPORARY CASES)

L15 - contemporary case 1 - Guy Valentine	9:00
L16 - contemporary case 2 - Sebastian Niemann	10:00
L17 - contemporary case 3 - Waleed Arafa	11:00
SP3 - students/yp presentation 3	12:00

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reedcob® onsite schedule

SEPTEMBER 2021

LOCAL TIME

20 Monday (Main Structure)

welcome in Tunis village (Fayoum Oasis)	8:30
warming up	9:30
hands on building	9:30
lunch	14:00
free time / group activities	
dinner	19:30

21 Tuesday (Walls)

warming up	8:30
hands on building	9:00
lunch	14:00
free time / group activities	
dinner	19:30

22 Wednesday (Walls)

welcome	8:30
warming up	9:30
hands on building	9:30
lunch	14:00
free time / group activities	
dinner	19:30

23 Thursday (Renders/Plasters)

warming up	8:30
hands on building	9:00
lunch	14:00
free time / group activities	
dinner	19:30

24 Friday (Renders/Plasters)

warming up	8:30
hands on building	9:00
lunch	14:00
free time / group activities	
farewell night and sunrise in the desert	19:30

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SUMMER SCHOOL INFORMATION

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- transportation from Cairo to Tunis village in Fayoum (and return);
- farewell dinner and night in double room tent in the desert;
- all materials and tools for the practical workshop (safety equipment not included)

2021 Registrations will have a 20% discount in the 2022 Summer School

MATERIALS, TOOLS, EQUIPMENT

SUMMER SCHOOL INFORMATION

1) ONLINE

To a better understanding of the theory and practical exercises during the ONLINE period, the student should have (not mandatory) the following materials and tools:

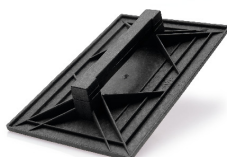
- 2 to 3 liters of earth (rich in clay, no organic matter) excavated 50cm from the surface
- 2 Liters of cleaned sand (0-2mm)
- 2 Liters of straw (wheat, oat, etc.) dried and cut (5 to 10cm)
- 1 Liter aerial lime
- 2 used floor tiles of approx. 33x33cm



small mason trowel



tray



plastic/wooden trowel



33x33cm used tile



3 recycled bottles (750ml)



30cm ruler

CONDITIONS OF PARTICIPATION (please read it carefully)

- Please note that it is not possible to refund the summer school fee in case of withdrawal of the participation due to an individual reason of the participant and if the reason is not directly attributable to the summer school organization.
- The refund will only be possible if the summer school is cancelled due to the global pandemic situation and before its start. In case of total cancellation the total refund will be made.
- The organization highly recommends the participants to buy an airplane ticket and accommodation in Egypt with a cancellation, insurance or refund option.
- In case of withdrawal from the participant or the cancellation of the Summer School, in any case the organization of this Summer School is responsible for any refund of the participant's travel or accommodation costs.
- Participants need to follow international requirements for the pandemics, regarding the 72 hours test or any other requirements made by the Egyptian government.
- All international participants need to have an international health insurance valid and with coverage to Egypt during the time of the trip. This can be acquired in www.worldnomads.com, www.imglobal.com (from 25 to 50 euros for 6 days) or similar websites.
- Each student must use safety equipment to his/her own responsibility during the ONLINE and ONSITE practical exercises. Gloves, eyeglasses, tools and clothes ready to be get dirty! Tools and materials will be provided by organizers in the ONSITE part.
- Onsite there will be a group responsible for keeping all tools disinfected as well as disinfection material for the participants.
- The visa application is the participant's responsibility. The organization will provide a visa letter if required by the participants.
- The registration, payments and all information requests are made to:

summerschool@cas-at.com or info@cas-at.com

Previous SUMMER SCHOOLS

The ONLINE 2020 REEDCOB summer school had 50 participants (14 lecturers and 36 students) from 14 nationalities. Since its start in 8 the REEDCOB Summer School had more than 120 participants!

















