

REEDCOB WORKSHOP PROGRAM

ONLINE

The to Min Capatica Campus I on the Capatica C international summer workshop architecture with reed and earth

7th-11th September 2020

organization



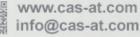




partners



Brainternational summer school



info / registration:

INTRODUCTION

The 3rd **REEDCOB** international summer workshop 2020 will be held online with part of the program at the campus of the Civil Engineering of the FCT/NOVA University of Lisbon. The period will be from the 7th to the 11th September. It is organized by CAS Studio Architecture in partnership with the Civil Engineering Department of the FCT/NOVA University.

Portugal has a historical reputation on earth buildings namely rammed earth and adobe. 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 4 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 developing and developed countries.

Furthermore, during the workshop other earth based techniques will be introduced such as adobe, rammed earth, cob, etc.

PROGRAM

The workshop will be developed during 5 mornings, including lectures from professional experts and academics, simple 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

- Practical sessions with hands on dirt exercises;

- Lectures about earth construction principles, earth architecture, ecological architecture, vernacular and contemporary architecture;

- Laboratory tests about mechanic and thermal resistance;

QUICK INFORMATION:

COORDINATION

CAS Studio: Paulo Carneiro, Alina Jerónimo FCT/NOVA: Paulina Faria, Vitor Silva

PARTICIPANTS

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

DATES

7th September to 11th September 2020

WORKSHOP FEES:

130 Euros* (early registration until 15th August)

180 Euros* (late registration 16th August - 6th September)

*VAT included

* 2020 Registrations will have a 20% discount for the 2021 Summer workshop

WORKSHOP LOCATION

ONLINE

MORE INFO

PREVIOUS WORKSHOPS www.cas-at.com/summerschoolpro

REGISTRATION / FAQ info@cas-at.com

(\mathbf{r}) 0 Т

DISCOVER MORE AT: www.cas-at.com/summerschoolpro

FAQ/REGISTRATION: info@cas-at.com

SEPTEMBER 2020

7 Monday (EARTH - AN INTRO)

L1-EARTH ARCHITECTURE INTRO BY PAULO CARNEIRO	
LAB1-EARTH MATERIAL BASICS BY ALINA JERONIMO	
PS1-EARTH PRACTICE BY CAS STUDIO	

8 Tuesday (STRUCTURE)

L2-EARTH PLASTERS/RENDERS BY PAULINA FARIA	
L3-EARTH STRUCTURAL ANALYSIS BY CARLOS CHASTRE	
LAB2 - MATERIALS RESISTANCE BY VITOR SILVA	
PS2-EARTH PLASTER EXERCISES BY CAS STUDIO	
SP1-STUDENTS PRESENTATION BY STUDENTS	

9 Wednesday (VERNACULAR)

	1 ву	MARWA DABAIEH	
	2 ву	HANAAÀ MSALLAK	
		AHMED SAMI El Fayoumi	
	f pv		

10 Thursday (COMMUNITY)

L8-PARTICIPATORY DESIGN1 BY MANAL EL-SAHAT	
L9-PARTICIPATORY DESIGN2 BY YUTAKA SHO	
SP2-STUDENTS PRESENTATION BY STUDENTS	
F-FILM ABOUT EARTH BUILDINGS THE FUTURE OF MUD	

11 Friday (CASE STUDIES)

		BY SEBASTIAN NIEMANN	
		BY ANNISA SHAHARIN	
		BY JOAQUIN KARCHER	
	FION BY S	TUDENTS	

7 Monday (EARTH - AN INTRO)



PAULO CARNEIRO EARTH ARCH/ SUSTAINABLE DESIGN

9:30 AM



EARTH ARCHITECTURE/SUSTAINABLE TECH

09:30 AI

8 Tuesday (structure)



09:30 AI

9 Wednesday (VERNACULAR)



MARWA DABAIEH ENERGY EFFICIENCY/VERNACULAR ARCH

09:30 AM



HANAÀ MSALLAK URBAN MANAGMENT/VERNACULAR ARCH



CARLOS CHASTRE

STRUCTURES / NEW MATERIALS

AHMED SAMI SUSTAINABLE LANDSCAPING



MOHAMED EL-FAYOUMI SUSTAINABLE URBAN PLANNING

11:30 AM



VITOR SILVA

STRENGTH OF MATERIALS

ADEL FAHMY SUSTAINABLE MATERIALS/TECHNOLOGIES

12:30 AM

10 Thursday (community)



 VITAKA SHO

 POST CONFLICT/PARTICIPATORY DESIGN

 10:30 AM





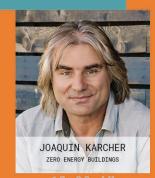
SEBASTIAN NIEMANN ENVIRONMENTAL HOUSING TYPOLOGIES

10:00 AM



SHAHARIN ANNISA COMMUNITY EMPOWERMENT

11:00 AM



WORKSHOP

The workshop fee is: 130 Euros* (early registration until the 15th August)

180 Euros* (late registration 16th August - 4th September)

*VAT (Value Added Tax) included

To a better understanding of the theory and practical exercises 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 aprox. 33x33cm

- Each student must use safety equipment to their own responsability: gloves, eyeglasses, tools and clothes ready to be get dirty!



CONDITIONS

-Please note that is not possible to refund the workshop fee in case of withdrawal of the participation in the workshop due to reasons not directly attributable to the workshop organization.

-The registration and requests for information are made to: info@cas-at.com

2019 WORKSHOP

The 2019 REEDCOB workshop had 38 participants from 12 nationalities:

- 2 Assistant Professors and 6 Students from Landscape architecture program, Faculty of Engineering, Ain Shams University Cairo, Egypt.

- 1 Assistant Professor/Researcher and 8 Students from the Faculty of Architecture, Architectural Engineering and Urban Planning of the University Catholic of Louvain, Belgium.

- 1 Lecturer/Researcher and 7 Students from the Institute of Urban Planning and Design, University of Stuttgart, Germany.

- 1 Professor from the Department of Architecture of the University of the Free State Bloemfontein, South Africa.

- 2 Lecturers and 6 Students from the Civil and Environmental Engineering Department, FCT/NOVA University of Lisbon, Portugal.

- 4 Architecture Professionals working in Qatar, Germany, France and Portugal.









