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Erasmus+

BIØN
Building Impact Zero Network

LearnBIØN

Design and Build with Økm (local and recycled materials)

BIØN – Building Impact Zero Network is a group of partners active in low environmental impact building techniques with positive social impact. Our aim is to share knowledge, practices and experiences in order to contribute to built environments and our communities.

The Learn BIØN project aims at building and sharing knowledge across borders and involves 7 partners from 5 European countries. As part of this network and as its coordinator, ARCò Architecture and Cooperation will organize the sixth workshop of this 3-year project.

More info at: www.bi0n.eu or www.ar-co.org/it/scuola/home/intro/index.php

_ what?

Design and Build with Økm (Local and Recycled Materials) in a real context, prototyping 1:1 object for the development of new activities of the local community. The aim is to create a physical and theoretical space for a discussion on the local sustainability exploring the potential of alternative and low cost building techniques. Why local and recycled materials? Mainly for the necessity of a responsible use of natural and unconventional resources, valorizing and respecting local architectural tradition and culture and looking for appropriate techniques with little processing or transporting and low environmental and economic costs. The workshop will be a four-week training and a hands-on experience. A balanced process between theory and practice will approach in detail the different materials and the earthship techniques. The most important topics of this training are: How natural or recycled materials can be used in building; Properties of some natural and recycled materials; Building with Earthship and Earthbags techniques - their principles, uses and forms, types of structures, finishings, types of coating, maintenance.

_ who?

ARCò is a cooperative founded in 2012 by a group of architects and engineers dedicated to the production of sustainable architecture and landscape design. Its projects are based on the constant pursuing of social, economical and environmental sustainability. For this reason, ARCò explores the local traditional techniques, in order to guarantee that the construction phase can be run independently by the communities involved. This approach has brought ARCò into the world of international cooperation, where it can use its skills to face and solve the different issues of humanitarian emergency. ARCò has experience in research and training in Italy and abroad to explore building techniques using different natural and recycled materials in order to analyze the material's performance and its application in the field.

_ where?

The workshop will take place in the south of Milan in **Casa Chiaravalle** (address: via sant'Arialdo 69), that is

a place confiscated from the organized crime that in the next future will become a reception centre for immigrants. In Casa Chiaravalle Passepartout- Network of social enterprises has launched a series of actions aimed at dialogue and integration of this space with the world. Passepartout is a network of social enterprises, which manages an innovative and sustainable system of diffused reception. It is made up of five social cooperatives operating in the Milan area. Casa Chiaravalle is located just outside the Milan area, in the agricultural landscape, but it is quite near the city. Milan, as is well known, is a dynamic reality, which translates in a rich calendar of opportunities.

_ when?

The workshop will take place from **June 4th until June 29th, 2018**. Participants are welcome to arrive on Sunday 3rd of June. Working days are from Monday to Friday:

Monday-Thursday h. 9.00-13.00, 14.00-18.00;

Friday h 9.00-13.00, 14.00-17.30
h 17.30-19.30 guest lecture.

During the weekends, an additional non-mandatory program of lectures and field trips will be proposed.

The complete course is divided in 4 weeks of 40 working hours each. Participants are free to sign for the individual week modules, where basic notions about the techniques used will be provided, or the full course. According to the actual course of the building project, slight adjustments in the program are possible. Even though the program has a theoretical framework, the major focus is a hands-on approach, learn by doing.

The **4 weekly modules** are:

- **MODULE 1** (from 4th until 8th June, 2018)
EARTHBAGS : BUILD WITH EARTHBAGS
- **MODULE 2** (from 11th until 15th June, 2018)
EARTHSHIPS: RECYCLE OF BOTTLES
- **MODULE 3** (from 18th until 22nd June, 2018)
FINISHINGS AND PLASTERS
- **MODULE 4** (from 25th until 29th June, 2018)
LOW TECH WOODEN FRAMES AND FINISHINGS

The schedule of the conferences is:

- 08.06.2018, h. 17.30-19.30

Guidelines to build masonry houses and schools in Malawi to resist natural disasters", lecturer Vassilis Mpampatsikos

- 15.06.2018, h. 17.30-19.30

La leggerezza nell'architettura in terra: le tecniche della quincha e della terrapaglia", lecturer Stefan Pollak di AKO - Architettura a Kilometro Zero

- 22.06.2018, h. 17.30-19.30

From the ground to the roof: a path across building a load bearing Compressed Earth Block structure",

lecturer Tânia Teixeira di Oficinas do Convento
-29.06.2018, h. 17.30-19.30

Tecniche costruttive per l'architettura contemporanea in terra cruda", lecturer Sergio Sabbadini

_ food and accomodation

Breakfast and lunch are included in the participant fee and will be held at Casa Chiaravalle. As soon as we have the final participants list, we will devise different solutions to help you get better organized. Accommodation is not included in the participant fee, but the first 6 people who will register within May 15th can camp in Casa Chiaravalle by bringing their own tent. For the others, the city offers different solutions as hostels, guesthouses, B&B, hotel, etc. We are working to find other accomodations to offer as scholarships. Get in contact with us for more info.

_ how to arrive

Closer airport: Milano Linate, Milano Malpensa, Orio Al Serio.

Arriving from the airports to Milan by bus:

- bus from Milano Linate, 1.50 €;

- bus 8 € from Milano Malpensa, 5 € from Orio Al Serio.

Arriving from the Milano Malpensa airport also by train: take the train Malpensa Express (13 €).

From Milano Centrale Station: you can take metro line M3 (San Donato direction) up to Corvetto, then the bus 77 (bus stop "Cimitero di Chiaravalle") and walk for 400 meters or you can rent a bike.

_ fees

Entire course: 800 € (discount* - 650 €)

Week modules: 250 € (discount* - 200 €)

Discount fees:

* for students and unemployed under status proof. Those who will register within May 15th, architects from Ordine degli Architetti PPC della Provincia di Milano, architects from other Ordine degli Architetti (till 10 years from the first application) and engineers (till 10 years from the first application at the Ordine degli Ingegneri) will be eligible for the discount fee. We will provide **5 scholarships** for migrants and NEET to take part to the workshop. For those 5 people the fee will be free.

Fee includes breakfast and lunch, educational printouts and insurance. Building materials and tools will be provided. The certificate of participation will be granted.

The best of the course will be awarded a scholarship to go to Montemor o Novo in Portugal from 13rd to 19th of July in order to demonstrate the techniques learnt during the course.

CREDITS RECOGNITION FOR STUDENTS AND ARCHITECTS

- For **STUDENTS**:

the students can request **1 or 2 cfu** for each weekly module. A certificate of attendance with the information about the number of working hours will be issued, which then must be validated by the University of origin.

- For **ARCHITECTS**:

the event is accredited by Ordine degli Architetti PPC della Provincia di Milano. Architects can request to the Ordine the recognition of:

-8cfp per weekly module (the minimum frequency for the recognition of cfp must be at least 80 % of the total duration of the individual module);

-2cfp per conference (the minimum frequency for the recognition of cfp must be 100 %). Participants to the weekly module cannot request also the recognition of 2cfp related to the conference.

Payment details

name: ARCÒ SOCIETÀ' COOPERATIVA
IBAN: IT50J0335901600100000066650
BIC/SWIFT: BCITITMX
bank: BANCA PROSSIMA S.P.A.

Refund policy

The submission fee can be refunded 90% for registrations cancelled before the 28th of May 2018. Later cancellations can not be refunded.

_application

Participants from all over the world are eligible. In order to apply, please complete the online application form linked here:

<https://form.jotformeu.com/80994014473359> .

In case of doubts, contact us workshop@ar-co.org

Be aware that the discount for students or unemployed and for licensed architects and engineers can only be issued if a respective proof of status is attached to your application.

In case of over registration, the selection of participants will be based on CV. The choice will be unappealable.

_calendar

- **application deadline:** 28/05
- **participant's selection announcement:** 29/05
- **payment deadline:** 31/05
- **date of preliminary meeting:** 03/06
- **workshop inauguration:** 04/06

_contacts

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co finanziato



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