



## Events Programme

### CONFERENCES AND MEETINGS

#### FRIDAY 20<sup>th</sup> APRIL

**10:30 a.m., Neri 1 Room (South Entrance – South Hall– 1<sup>st</sup> Floor)**  
**“CASAENERGYPIU’ - Prefabricated buildings in wood with earthquake-proof positive energy balance”**  
by Wolfhaus - Wolfssystem

#### Programme

**Michael Obermair**, architect and expert in design and innovation  
**CasaEnergyPiù: how to design a house that produces more energy than it consumes and makes you profit**

**Simon Keller**, engineer and expert in technological development  
**Absolute earthquake-proofing is possible.** Structural system evaluation and vibrating table test of a 4-floor wooden building (with video-testimony)

**2:30 p.m., Noce Room (Hall A6)**  
**“How to translate product benefits into sales opportunities”**  
by Consorzio LegnoLegno

#### Programme

SPEAKER: **Simone Castagnaro**, Technical Department Sales Manager at Consorzio LegnoLegno  
The aim of this presentation is to provide door and window makers the practical tools for understanding the customer’s needs and translating the various studies carried out on the product into tangible benefits for him. The presentation will also include a look at the new studies for improving the thermal performance of doors and windows and guaranteeing performance of the laying seam.

#### SATURDAY 21<sup>st</sup> APRIL

**2 p.m. Tiglio Room (Hall A6)**  
**“Parametric architecture 2”- Morphogenesis and generation.**  
**Generating and building complex forms: design, architecture, landscapes.**  
By Ordine degli Architetti PPC of the Province of Rimini

#### Programme

**SPEAKERS:**

**Roberto Ricci** – President of the Architects Association of Rimini  
**Pierluigi Pianori** – Director of the Architects Association of Rimini  
**Andrea Bugli** – Ecologic Study of London  
**Alessio Erioli** - Lecturer at the University of Bologna  
**Fulvio Wirz** - Zaha Hadid Architects Office of London  
**Lorenzo Vianello** – Architect, Norman Foster Office of London

**2:30 p.m., Noce Room (Hall A6)**

**“MY NEW HOME. Savings, simplicity, speed of wooden houses: a sustainable and comfortable solution”**

Sponsored by I.N.B.A.R. – National Institute of Bio-Architecture



**Programme**

**SPEAKERS:**

**Giovanni Sasso** – Vice-President of INBAR – National Institute of Bio-Architecture  
**Daniela Brighi** – Engineer, Studio Sassobrigli

Our society's consumption of energy for heating can be reduced by 90% maintaining the same or better levels of service. The current building fleet requires, in fact, an average consumption of 20 cubic metres of natural gas per square metre of building each year. Today, the best building solutions make it possible for consumptions to be reduced to less than 1.5 cubic metres per year. Homes that are able to stay within these values pay off on their initial investment in a short time thanks to system simplification and consumption equalling almost zero, as below certain consumption levels, the simple presence of people contributes remarkably to heating.

Wooden homes in Italy easily achieve the best insulation performance. However, they must be built using the right materials and applications must be absolutely correct. Though insulation averts the threat of condensation and mould, when insulating, it is necessary to focus on maintaining wall transpirability. Of course wood guarantees transpirability, but it is necessary to pay attention to all the materials where, among insulators, natural materials in particular ensure transpirability.

Alongside winter insulation, wooden homes must also use the newest strategies for facing the issue of summer, with a shell able to absorb heat, determined by the exchange of air, of people or appliances, and release it in a prolonged period of time.

Following dispersions, systems operation also absorbs a considerable part of consumptions.

If my home is well insulated, the heating system must be suited for it. Examples of over-dimensioning are an everyday occurrence, but building with reduced consumptions can afford adequately simple and streamlined systems, to the advantage of one's pocket.

The technologies available are extremely efficient and present vast margins of future improvement. Nonetheless, to reduce daily waste, it is necessary to save upstream, during the building planning stage.

However, a sustainable home does not look only at its own consumptions. From a global viewpoint, it avoids materials that do not transpire, are highly flammable, expensive to recycle, by-products of oil, environmentally high-danger and let off toxic compounds, in favour of natural materials, such as wood fibre, cork, straw, calcium silicate, flax, hemp and cellulose.

The sustainable home is the result of an ethical approach, respectful of the environment, cycles and ecosystems, of the social and geopolitical aspects, of quality and comfort.

For more information [www.inbar.it](http://www.inbar.it)

**MONDAY 23<sup>rd</sup> APRIL**

**1:00 p.m., Tiglio Room (Hall A6)**

*Study Day*

**Planning, calculating and building**

**WOODEN HOMES**

**(as per Technical building regulations, Ministerial Decree of 14 January 2008)**

This study day will focus on the problems concerning the planning, calculation and construction of wooden homes in light of the current regulations in force.

Wood, whether solid or recomposed, such as laminar or crossed-board panels, is successfully becoming an important alternative in residential construction with documentable advantages compared to traditional buildings.

The conditions for fully exploiting the opportunities that today wood is able to offer are a plus and particular compared to traditional materials, as wood is an organic material with characteristics that require additional know-how and attention that this study day will attempt to highlight.

The seminar is aimed at company technicians, professionals and all those who in different ways work in the wood construction sector. In particular, the programme is designed not only to illustrate the state of the art of carpentry, the architectural, physical and technical design using wood and the application scenarios of this material, but it also aims toward professional and training updating. The seminars are held by university teachers and distinguished experts.

### **Programme**

1:00 p.m. Registration and distribution of the teaching material

1:30 p.m. – 2:25 p.m. Module 1 (**Prof. Franco Laner**, IUAV University of Venice)  
Basic knowledge for planning and calculating using wood

2:25 p.m. – 3:20 p.m. Modulo 2 (**Claudio Pellanda, architect**)  
The many requirements for designing the shell of a wooden home, with special reference to the physiological comfort and energy savings.

Coffee break

3:40 p.m. – 4:35 p.m. Modulo 3 (**Maurizio Follesa, engineer**)  
Safety checks and constructional details of wooden structures

4:35 p.m. – 5:30 p.m. Modulo 4 (**Prof. Franco Laner**)  
Design opportunities using wood.  
Durability and maintenance.

5:30 p.m. – 5:45 p.m. Optional test consisting of 30 questions

At the end of the day, a test has been scheduled consisting of 30 questions regarding the subjects covered to establish how much was learned. Those with the best results will receive a prize consisting of books!

Each attendee will receive the teaching material, including a book by Franco Laner, *Le Guide*, as well as a voucher for the coffee break and the certificate of attendance.

The course registration fee is **€ 50.00**, including VAT, 50% of which is tax-deductible as a training cost.

Sponsored by the Collegio Geometri Rimini and good for acquiring 4 Professional Training Credits.

For information and registration:

[info@percorsi-legno.it](mailto:info@percorsi-legno.it)

[www.percorsi-legno.it](http://www.percorsi-legno.it)

## SPECIAL EVENTS AND EXHIBITS

FROM FRIDAY 20<sup>TH</sup> APRIL TO TUESDAY 24<sup>TH</sup> APRIL

(Hall C2)

**ART EXHIBITION: SCULPTURE AND WOOD TURNING**

**(From the Alps)**

by A.I.T.A.

**International Association for Craftsman Turning**

Strada Torino, 50 – 10040 – Cumiana (TO)

Exhibit Area featuring Craftsman Turning Works, Wooden Art Sculptures and Artistic Pyrography by Maestro Renzo Gaioni.

Info: [tornitura.aita@gmail.com](mailto:tornitura.aita@gmail.com)

(Hall C5)

**Sculptures by Pietro Arnoldi**

*Programme updated to 6 April, 2012.*