



## TIMBER CONSTRUCTION COSTRUZIONI IN LEGNO

Corso aperto agli studenti delle Facoltà di Architettura e di Ingegneria Civile e a professionisti architetti e ingegneri.

Lingua di insegnamento: Inglese.

### CORSO PER CREDITI LIBERI

3-4 Maggio 2012 – 9:00-19:00

5 Maggio 2012 – 9:00-13:00

Asilo Sella, Aula AllPc secondo piano

Lungomare Garibaldi, Alghero

2 CFU per gli studenti che frequenteranno tutte le lezioni e che supereranno un esame scritto finale.

**Prof. Gerhard Schickhofer, Graz University of Technology, Austria**

Visiting Professor at the University of Sassari

e con la partecipazione di

**Stephen John, University of Canterbury, Christchurch, Nuova Zelanda**

**Andreas Ringhofer, Graz University of Technology, Austria**

### Course Description

The course contains the essential aspects of the so-called solid timber construction technique with cross laminated timber (CLT). The requirements of the primary material “board” are met; in particular it will be gone into detail concerning questions of grading, finger jointing and the use of different timber species. After that it will be dealt with different production processes of CLT and the difference of its resulting products. A short overview about the essential characteristics of CLT and their influencing parameters as well as the design of CLT wall and ceiling elements is given. In addition to that the students are familiarised with the software package “CLTdesigner” by means of examples. The necessary joining technique in order to connect CLT-elements will also be dealt with. Finally leading details are presented and possible wall, roof and floor constructions will be discussed. Some of above mentioned topics are presented in more detail and additional topics complete the course. In the course also already realised objects (predominantly located in Austria) are presented and used to demonstrate the theoretical background. The aim is that students gain all necessary information to be able to handle easy projects independently after this course.

### Univ.-Prof. Dipl.-Ing. Dr.techn. Gerhard SCHICKHOFER

Prof. Schickhofer studied civil engineering at Graz University of Technology and graduated with distinction in 1990 (diploma) and 1994 (doctorate). For his research work he has received different awards (e.g. Josef-Umdasch-Award for his doctoral thesis on “Cross-Laminated Timber” in 1995, the Research Funding Association Award in the area “added value” also for “Cross-Laminated-Timber” in 1998 and the European Innovation Award for the project “Tanno meets Gemini” in 2004), in his field of activity he has published more than 220 publications and given numerous speeches. In 1999 he habilitated and became an associate professor, since 2002 he is manager and scientific director of the Competence Centre “holz.bau forschungs gmbh”. In 2004 he was appointed to a professorship and became the head of the Institute of Timber Engineering and Wood Technology at Graz University of Technology. During his career Prof. Schickhofer has been responsible for about 200 R&D projects with an overall budget of more than 11 million euros, was involved in transfer activities in form of more than 20 conferences, workshops and seminars, and has supervised more than 110 diploma theses and numerous doctoral theses. Between 2008 and 2011 he also carried out successfully the duties of a deputy dean at the Faculty of Civil Engineering.



Università degli Studi di Sassari  
**Facoltà di Architettura**