FAX REGISTRATION +43 (0) 316 / 873-4619

Herewith I registrate ..... person(s) for the
International Conference on Connections in Timber Engineering
From Research to Standards.

Name, Company and Address

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Name(s) of Further Participant(s)

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Date Signature

Registration

Registration via E-Mail or by Fax until September 1st 2017

Non-COST FP1402 Delegates:
€ 280,- (students € 80,-), taxes included.
Cancellation until September 1st 2017 is free, then
50 % of the participation fee will be invoiced.

Participation fee includes the conference proceeding
as well as lunch and coffee/tea breaks at the conference.
Optional participation at the common dinner + € 50,-;
due to limited places, these are assigned in the order of
bookings.

Bank Account

IBAN AT70 1200 0516 5610 1881
BIC BKAUATWW

Contact

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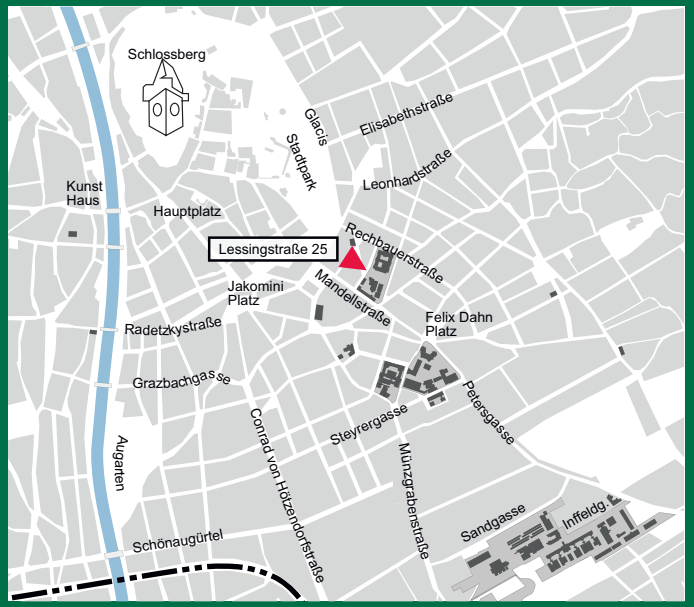
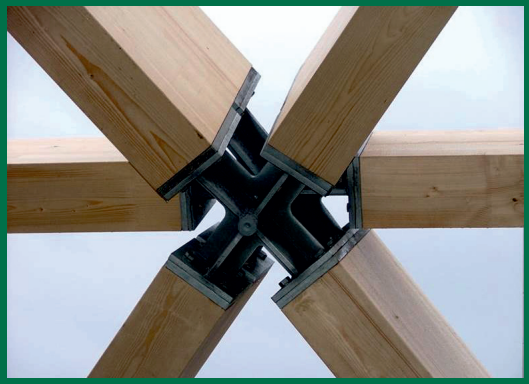
Institute of Timber Engineering and Wood Technology
A-8010 Graz, Inffeldgasse 24/I



International Conference on Connections in Timber Engineering From Research to Standards

in the frame of

COST Action FP1402



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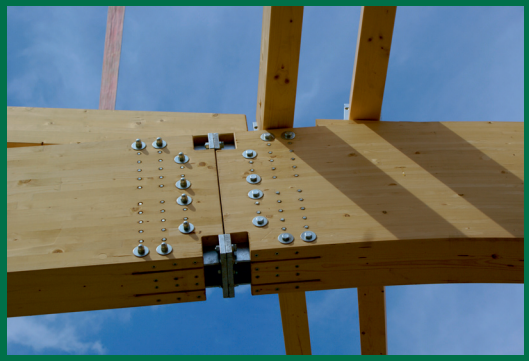

Source: WIEHAG GmbH

Graz University of Technology
CAMPUS „ALTE TECHNIK"
Lessingstraße 25, 8010 Graz
September 13th 2017
start 08:00 Auditorium „Hörsaal L"

Motivation

It is well known that timber structures succeed or fail in their connections and significant technical advances and developments in the field of timber connections have fostered the recent renaissance of timber as a structural material. Self-tapping screws are prominent amongst these innovations. They increase timber's potential by enabling strong, stiff and economic connections, widening the range for structural applications. An increased range of connection types and corresponding applications gives designers both opportunity and challenge. The result is a noticeable trend towards systemized solutions enabling quick and reliable assembly on site.

The behaviour of structures must be both reliable and safe and, for this reason, construction is highly controlled. This poses the challenge that innovation has to take place inside a framework of regulation. A lack of standardized design and construction principles for new developments could result in a variety of applied approaches that might lead to a lower reliability of structures at higher cost. A core objective for COST Action FP1402 is to provide the knowledge and methods necessary to bring these new developments into regulated building practice.

The objective of this Conference is to record the current state-of-the-art for connections in timber engineering, and to illustrate how new developments will be adopted in the next generation of Timber Design Standards (e.g. Eurocode 5:2022). It is an opportunity to hear presentations from some of the world's leading experts and to join discussions on the design, application and performance of Connections in Timber Engineering. There will be presentations on current performance indicators, (e.g. strength, stiffness and ductile vs. brittle failure modes), as well as applications of connections in cross-laminated timber and timber-concrete composite structures. The Conference will also include presentations on current developments of design rules (e.g. for brittle failure modes, reinforcement and seismic design) and give an outlook on the potential of numerical modelling and probabilistic methods for future design of efficient and reliable connections.

It is intended that this COST Action FP1402 Conference will contribute to a high-quality and open scientific and technical dialogue within the timber engineering community. It thereby adheres to the main principle of the COST Programme, which is to strengthen Europe in scientific and technological research, for peaceful purposes, through the support of cooperation and interaction between researchers and practitioners.

For many years, the team of the Institute of Timber Engineering and Wood Technology at Graz University of Technology has been working at the forefront of timber engineering research and innovation. In 2013, in collaboration with COST Action FP1004, they hosted a very successful “Conference on Cross Laminated Timber”. For this current Conference on “Connections in Timber Engineering”, Graz University of Technology, with COST Action FP1402, is once again bringing together researchers and practitioners from around the world to increase understanding of current and future timber connection research and to discuss applications.

Philipp Dietsch, Chair COST FP1402

Sponsorship

SPAX® HECO® SCHRAUBEN MAYR MELNHOF HOLZ

Programme

08^{00} - 09^{00}	**Registration**	
09^{00} - 09^{30}	**Opening and conference overview**	P. Dietsch R. Brandner
09^{30} - 10^{00}	**The practical design of dowel-type connections in timber engineering structures according to Ec5**	A. Brunauer
10^{00} - 10^{30}	**Assessment of existing safety formats for timber connections - How probabilistic approaches can influence joint design in timber engineering**	R. Jockwer G. Fink J. Köhler
10^{30} - 11^{00}	**Ductility in timber structures - Requirements & possibilities**	F. Brühl
11^{00} - 11^{30}	**Coffee sponsored by SPAX International GmbH & Co. KG**	
11^{30} - 12^{00}	**Impact of standards and EADs on the determination of single fastener properties**	J. Munch-Andersen
12^{00} - 12^{30}	**Nailed joints: Investigation on input parameters for design**	C. Sandhaas R. Görlacher
12^{30} - 13^{00}	**Design approaches for dowel-type connections in CLT structures and their verification**	A. Ringhofer R. Brandner H. J. Blaß
13^{00} - 14^{00}	**Lunch**	
14^{00} - 14^{30}	**Performance of dowel-type fasteners for hybrid timber structures**	A. Dias
14^{30} - 15^{00}	**Push-out vs. beam: Can the results of experimental stiffnesses of TCC-connectors be transfered?**	J. Schänzlin S. Mönch
15^{00} - 15^{30}	**Numerical modeling of the load distribution in multiple fastener joints**	T. K. Bader J.-F. Bocquet M. Schweigler R. Lemaitre
15^{30} - 16^{00}	**Coffee sponsored by HECO-Schrauben GmbH & Co. KG**	
16^{00} - 16^{30}	**Brittle failure of connections loaded parallel to grain**	P. Quenneville
16^{30} - 17^{00}	**Brittle failure of connections loaded perpendicular to grain**	R. Jockwer P. Dietsch
17^{00} - 17^{30}	**Reinforcement of timber structures - a new section for EC5**	P. Dietsch A. Brunauer
17^{30} - 18^{00}	**Summary and recommendations regarding the seismic design of timber connections**	R. Tomasi D. P. Pasca
18^{00}	**Closure**	
19^{00}	**Common dinner at “Landhauskeller” (optional)**	

Moderation

R. Brandner
A. Ringhofer

Speakers

DI
Alfons BRUNAUER
WIEHAG GmbH
Altheim (AT)

DI Dr.techn.
Thomas K. BADER
Department of Building Technology
Linnaeus University
Växjö (SE)

Ass.Prof. DI(FH) Dr.techn.
Reinhard BRANDNER
Institute of Timber Engineering and Wood Technology
Graz University of Technology
Graz (AT)

DI
Frank BRÜHL
WIEHAG GmbH
Altheim (AT)

Prof. Dr.
Alfredo DIAS
Department of Civil Engineering
University of Coimbra
Coimbra (PT)

Dr.-Ing.
Philipp DIETSCH
Chair for Timber Structures and Building Construction
Technical University of Munich
Munich (DE)

Dr.
Robert JOCKWER
Institute of Structural Engineering
ETH Zürich
Zürich (CH)

Prof. Dr.
Jochen KÖHLER
Department of Structural Engineering
NTNU
Trondheim (NO)

Dr.
Jørgen MUNCH-ANDERSEN
Danish Timber Information
Lyngby (DK)

Prof. Dr.
Pierre QUENNEVILLE
Department of Civil and Environmental Engineering
The University of Auckland
Auckland (NZ)

DI Dr.techn.
Andreas RINGHOFER
Institute of Timber Engineering and Wood Technology
Graz University of Technology
Graz (AT)

Dr.ir.
Carmen SANDHAAS
Timber Structures and Building Construction
Karlsruhe Institute of Technology
Karlsruhe (DE)

Prof. Dr.-Ing. habil.
Jörg SCHÄNZLIN
University of Applied Sciences Biberach
Biberach (DE)

Prof. Dr.
Roberto TOMASI
Faculty of Science and Technology
Norwegian University of Life Sciences
Oslo (NO)

Hosts

Institute of Timber Engineering and Wood Technology
Graz University of Technology
COST Action FP1402

cost FP1402

TU Graz
Graz University of Technology

lignum
study research engineering test center