Innovations in Timber Construction

Timber construction is experiencing unprecedented change and growth both locally and internationally. New and innovative developments continue to occur in technology, materials, design, prefabrication, supply and construction approaches. This WoodSolutions seminar will focus on some of the latest innovations in Australia and abroad in timber construction.

We are very fortunate to have visiting Australia Professor Christophe Sigrist - one of Europe’s foremost timber engineers. Professor Sigrist, along with four of Australia’s leading timber experts, will present and discuss:

- the latest innovation and advances in timber design and construction in Europe and illustrate this with a selection of the state-of-the-art projects;
- the new innovative approaches to timber building design, prefabrication and delivery, particularly:
  - the critical importance of ‘early contractor involvement (ECI),’
  - effective Building Information Modelling (BIM) techniques, and
  - the evolving use of Augmented and Virtual Reality technologies;
- the latest advances in mass timber product construction using CLT, LVL and Glulam products to provide an optimized timber solution;
- the newest WS Technical Design Guide #46 Wood Construction Systems’ which will be launched and discussed at the seminar by its author.

The seminar is a must for all building and design professionals including architects, building designers, engineers, builders, developers, educators and students.
Program

12.15pm  Registration – Performance Space Library at the Dock

12.30pm  Welcome & Introduction - Adam Jones, WoodSolutions

Innovations and Advances in European Timber Construction
Professor Christophe Sigrist, Berne University of Applied Sciences
Central Europe is one of the most innovative regions of the world for timber products, processes and applications. Christophe will provide an overview of the recent developments in timber construction from, small to large buildings, and from simple to complex structures. He will highlight interesting ideas regarding materials, processes, connections and assembly and show their application in recent projects.

Early Contractor Involvement – improving the efficiency of prefabricated project delivery
Rob De Brincat, Manager Innovation Atelier Projects
A common theme in the successful delivery of timber projects using prefabricated systems, is the utilization of early contractor involvement (ECI). Rob will present and discuss these innovative new and efficient approaches using practical and real project examples.

Innovation in BIM Technology
Dr Paul Kremer, Senior Manager XLam
Key to successful prefabricated timber construction solutions is the utilization of effective and coordinated Building Information Modeling (BIM) technologies. Paul will discuss how BIM can practically and realistically be implemented in the timber design, fabrication and assembly process and also explore the exciting new potential opportunities for the emerging technologies of Augmented Reality and Virtual Reality.

Afternoon Tea & Networking

Guide for Wood Construction Systems
Assoc Professor Greg Nolan, School of Architecture and Design UTAS
The latest WoodSolutions Technical Design Guide #46 Wood Construction Systems has been developed to assist building professionals to confidently explore conceptual structural designs for timber-rich buildings and structures. In this presentation, the author Greg Nolan will launch the guide and discuss the key sections and their use in the design process.

Innovation in Mass-timber Products
Dr David Bylund, Team Leader, Wesbeam
The interest in mass-timber continues to grow globally. Today it’s not just CLT, but also the use of glulam and new LVL products used in combination to provide efficient and optimized timber building solutions. David will discuss the new innovations in mass-timber products and construction system design and supply solutions.

5.00pm finish

Click Here to Register

For further information, contact jones@woodsolutions.com.au

Date:  Tuesday 23rd October 2018, 12.30 – 5.00pm, Registration 12.15pm
Venue:  Library at the Dock, Docklands, Melbourne (easy to access by free CBD tram down Collins St)

Please note: WoodSolutions reserves the right to cancel this event and/or change the program and speakers without notice. Registrants may be contacted by WoodSolutions about future seminars and events.

Resourced by Forest and Wood Products Australia Ltd (FWPA) and the Australian Government, WoodSolutions is an industry initiative designed to provide information on timber and wood products to individuals and companies involved in building design and construction. WoodSolutions is a collaborative effort between FWPA members and forest and wood product levy partners and is supported by timber industry peak bodies and technical associations.