Time and Place
On-site check-in will open at 8:00 a.m.
Program will begin at 8:30 a.m. and the
day will conclude at 12:45 p.m.

September 12 • Austin, TX
Sullivan's
300 Colorado Street, Suite 200
Austin, TX 78701

September 13 • Houston, TX
Del Frisco’s Double Eagle
5061 Westheimer Road, Suite 8060
Houston, TX 77056

September 14 • Plano, TX
Del Frisco’s Double Eagle
5905 Legacy Drive
Plano, TX 75024

Education Credits
3.0 AIA/CES HSW LUs or PDH credits

Fee
$30 (includes lunch)

WoodWorks is an approved AIA provider.
Exposed Connections in Timber Trusses and Structures

Designing for Beauty and Function

Presented by:

RL “Ben” Brungraber, PhD, PE, Fire Tower Engineered Timber
Ilana Danzig, PEng, PE, MEng, Equilibrium Consulting

COURSE DESCRIPTION

In timber designs where the structure is an integral part of the architecture, detailing for trusses and member intersections can be particularly challenging. Presented by renowned timber specialists, this workshop will provide insight relevant to both engineers and architects on heavy timber trusses, glulam post and beam and mass timber component connections. Timber truss topics include an overview of heavy timber truss configurations, guidance on their applications and important design considerations. An introduction to modern timber connections will review guiding principles of mass timber connections, custom and prefabricated hardware, codes, and design considerations using project examples. Among topics included are methods for achieving fire resistance, design simplicity and construction efficiency.

SPEAKERS

RL “Ben” Brungraber, PhD, PE
Fire Tower Engineered Timber

Ben Brungraber earned a MS from Colorado State University in Timber Structures and a PhD in Mortise and Tenon Joinery from Stanford, which to his clients’ collective relief, explains the nickname Dr. Joint. Before partnering in his own design and engineering firm, Fire Tower Engineered Timber, he taught at the University of Connecticut and worked as an engineer for Benson Woodworking Co. He has also served on the Board of Directors of the Timber Frame Guild of North America.

Ilana Danzig, PEng, PE, MEng
Equilibrium Consulting

Ilana graduated from the University of Alberta with a BS in Civil Engineering, and spent four years working for Pomeroy Consulting Engineers / GENIVAR on institutional projects such as schools, recreation facilities, and seismic retrofits in British Columbia. In 2012, Ilana attended the University of British Columbia for a Masters in Structural Engineering, where she studied dynamics, seismic design, and timber structures. Her research focused on timber engineering in high-seismic zones, particularly CLT diaphragm and shear wall connections. Ilana joined Equilibrium Consulting in 2013 and has since worked on a wide range of projects. She is currently leading the structural team designing the new Oregon State University College of Forestry.

Agenda

8:00 – 8:30 a.m.  CHECK-IN / REGISTRATION

8:30 – 8:40 a.m.  Welcome and Introduction

8:40 – 10:10 a.m.  Designing Mass Timber Connections for Function, Simplicity and Elegance
Ilana Danzig

10:10 – 10:30 a.m.  BREAK

10:30 – 12 p.m.  Heavy Timber Trusses: The Art and Design of Exposed Connections
Ben Brungraber

12:00 – 12:45 p.m.  LUNCH / CERTIFICATES

Content Rating

Technical engineering content: 1 (low) to 5 (high)
Architectural-focused content: 1 (low) to 5 (high)

About WoodWorks

Free design and engineering support for wood buildings

WoodWorks provides free resources related to the design, engineering and construction of non-residential and multi-family wood buildings. Our objective is to make it easier to build code-compliant wood buildings more efficiently and at less cost.

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Visit woodworks.org or email help@woodworks.org

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