



2021 SEAC FALL SEMINAR

Thursday, October 7th

Overview of Mass Timber Construction in 2021

Presented by: Gregory R. Kingsley, PhD, PE, P.Eng. President and CEO, KL&A Inc. Structural Engineers and Builders, Golden, CO

The introduction and evolution of mass timber in the IBC may represent the most rapid development of a new, major structural material in the building code in the history of modern codes. It is hard to keep up. This presentation will include a rapid fire introduction to mass timber products and systems from the perspective of a structural engineer, with an emphasis on the new tall-wood provisions that created three entirely new building types in the 2021 IBC. General structural design will be addressed, including topics in connection design, diaphragm design, shear wall design, vibration and acoustics. A topic that is the centerpiece of mass timber design, design for fire resistance, will be addressed.

As a non-commodified material, mass timber often necessarily includes early engagement of fabricators and builders, not to mention estimators who may not be familiar with the systems. Structural engineers, too, may struggle to implement “the usual” solutions which have worked well for decades with other materials, but may not be right for mass timber.

Finally, a discussion of cost, value, and structural optimization will address the newest structural design criteria – embodied carbon – and the biggest roadblock to mass timber construction, even before the pandemic interrupted supply chains worldwide: cost.

Getting the Load from Here to There: Load Paths, Diaphragms, and other Essentials

*Presented by: Ron Klemencic, PE, SE, Hon. AIA, NAC, NAE
Chairman and CEO of Magnusson Klemencic and Assoc., Seattle, WA*

A complete load path which adequately and reliably delivers horizontal wind or seismic forces to primary vertical bracing elements of a building is essential to meeting performance objectives. Often, the analysis and design of Diaphragms, Chords, and Collectors are left to the end of the design process and are not well-considered.

In particular, diaphragm deformations, transfer forces due to offsets in the lateral bracing system, or back-stay effects associated with substructures are simply overlooked. This presentation will provide guidance regarding best practices and will highlight issues to identify and address early in the design process to ensure the desired design outcome.

LOCATION*:

Doubletree by Hilton Denver - Westminster
8773 Yates Drive Westminster, CO 80031

*SEAC follows CDC and local authorities guidelines.

SEMINAR SCHEDULE: 4 PDH

7:00am - 7:40am

Registration/ Breakfast/ Networking with Sponsors

7:40am - 9:45am

Announcements/ Overview of Mass Timber Construction in 2021

9:45am - 10:00am

Break/ Meeting with Students/ Networking with Sponsors/ Raffle

10:00am - 12:00pm

Getting the Load from Here to There: Load Paths, Diaphragm, and other Essentials

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SEAC Fall Seminar Payment

www.seacolorado.org

Early Registration and Payment:

Deadline: Friday, September 24th

Regular Registration Online Payment

Closes: Monday, October 4th

Refer to page 3 and 4 for additional information and the in-person seminar or webinar fees.

Gregory R. Kingsley, Ph.D., P.E., P.Eng.



Gregory R. Kingsley, Ph.D., P.E., P.Eng. is the President and CEO of KL&A Inc., Structural Engineers and Builders in Golden, Colorado.

Greg Kingsley spent his early career and education focused on structural masonry design and research, culminating in a pseudo-dynamic test on a full-scale 5-story building at the University of California, San Diego, and then another full-scale test of a 2-story unreinforced masonry building at the University of Pavia in Italy. In 1995, he joined a Colorado structural engineering and construction firm, KL&A Inc., which he has led since 2003 as President and CEO. Since 2006, KL&A Inc. has been consistently voted one of the top 10 best structural engineering firms to work for in the United States, and now has over 90 structural engineers, steel detailers, and construction managers, civil engineers and land surveyors in four offices in Colorado and Wyoming. His current passion is for innovative wood structures (like the Aspen Art Museum with Shigeru Ban Architects), and in the rapidly growing field of mass timber construction, which he considers our best hope for marrying carbon sequestration with environmental responsibility.

Ron Klemencic, PE, SE, Hon. AIA, NAC, NAE



Ron, Chairman and C.E.O. of MKA, is known for his creative yet practical design solutions. A past 5-year Chairman of the Council on Tall Buildings and Urban Habitat, Ron's focus is complex high-rise and mixed-use designs. He has worked on projects in 29 states and 25 countries, with developments up to 8.4-million square feet, and is sought out by developers, architects, and contractors for his creativity, "big picture" approach, and unique ability to consistently produce cost-effective, innovative designs. Ron continues to lead the advancement of performance-based seismic design of tall buildings through initiatives including as the PEER TBI Guidelines and design of buildings, such as the 1,070-foot-tall Salesforce Tower in San Francisco and Rainier Square Tower in Seattle.

REGISTRATION INFORMATION

REGISTER EARLY TO RECEIVE THE DISCOUNT

Early Registration and Payment Deadline: Friday, September 24th

Members: \$125.00 Non-Members: \$165.00 Students: \$30.00

Group Discount for in-person attendance only: 5-9 people... 10%; 10+ people ...20%

Regular Registration Fee Online/ Payment at the Door

Members: \$150.00 Non-Members: \$190.00 Students: \$40.00

Members & Non-members & Students RSVP Online at:

<http://seacolorado.org/event/seac-fall-seminar/>

Online payment closes on Monday, October 4th

PAYING BY CHECK – SEMINAR REGISTRATION FORM

Make your check payable to: SEAC

Mail to the address listed below along with this Registration Form:

SEAC, PO Box 441069, Aurora, CO 80044

Please list all attendee names and contact information. Clarify if PDH certificate is needed.

Company Name	Attendee Names (Last Name, First Name)	SEAC member (Y/N)	Fee Amount	PDH Certificate
TOTAL FEE				

Free Parking is available next to the hotel
RTD Station is nearby (easy walk)



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