

TRILLIUM DELL TIMBERWORKS & FARM

MASS TIMBER

USING
MINDFUL
TECHNOLOGIES
TO DESIGN
OUR BUILT
FUTURE

JUNE 11

8AM-10PM
KNOXVILLE, IL

SATURDAY, JUNE 11: 8:00-8:45 Check-in & Tours

9:00-10:00 Rick Collins- Owner, Trillium Dell Timberworks: AIA Accredited-Timber Framing: Applications in Commercial Construction

10:15-10:30 Break
Coffee service, light refreshments

10:30-11:30 Joe Miller- Ph.D., P.E., P.Eng. Fire Tower Engineered Timber: Mass Timber Product Selection

12:00-1:45 Farm Raised Lunch

1:00-3:00 Hands-On in the Shop: Illinois Native Wood ID & Joint Busting
PPE/safety equipment provided

3:00-4:00 Greg Swiss- CEM, EIT, Building Analyst, Cyclone Energy Group:
Is Solar Passive Passé?

4:00-4:15 Break
Beverages and light refreshments

4:15-5:15 Will Denton-Project Manager, Trillium Dell Timberworks:
CLT in Chicago! Chicago Horizon, A Case Study

5:30-7:00 Timber & Prairie Walk & Talk

7:00 Locally Sourced Dinner & Featuring Music by: Frank F. Sidney's Western Bandit Volunteers

SUNDAY, JUNE 12: (OPTIONAL) 6:00- 8:00 Early Bird Coffee and Continental fresh baked goodies from our favorite coffee house

8:00-11:00 Local Timberframe Tour:
The King Barn, Conlee Residence, Appleton Pavilion, Johnson Residence

LIMITED SPACE- REGISTER ON EVENTBRITE NOW!
QUESTIONS? NICOLE@TRILLIUMDELL.COM

DETAIL

Rick Collins – Owner, Trillium Dell Timberworks – AIA Accredited-
Timber Framing: Applications in Commercial Construction

Designed to answer questions about use of heavy timber as both structural material and exposed architectural feature in commercial construction, this presentation will cover topics such as specification, structural design, joinery, code compliance paths, and fire resistance. The role of the architect and structural engineer in heavy timber design and specification will be discussed. Examples will be presented to illustrate a wide range of applications. Traditional and modern joinery options will be explored with an emphasis on aesthetics, structural capacity, and design approaches. Heavy timber's role as a building material in the International Building Code, American Wood Council's National Design Specification® (NDS®) for Wood Construction, and Timber Frame Engineering Council's (TFEC) Engineering Standards & Loading Criteria will also be covered.

Joe Miller- Ph.D., P.E., P.Eng. FIRE TOWER ENGINEERED TIMBER
A Tutorial on Mass Timber Product Selection

Mass timber is a relatively new term to describe building products that have long been in use - glulams, nail laminated timbers, cross-laminated timbers, and large section solid timbers. While each has their strong points, they also have their weak points, which are often overlooked in the current market. This presentation will focus on both the good, and the bad, of mass timber products, looking at them from a structural vantage point, with the intent that the attendee will be able to better specify and use them in the most efficient and suitable fashion.

Greg Swiss - CEM, EIT, Building Analyst at Cyclone Energy Group
Is Solar Passive Passé?

Energy codes are ratcheting up and how is that changing our buildings. As we move towards net-zero buildings we reach for passive strategies, but which ones still make sense? Our energy codes are different and our Chicago climate and other 5A climates are relatively the same. It is not as straightforward as it used to be and there are some interesting trends happening. What are the latest results and trends from high performance building energy models?

Will Denton - Project Manager, Trillium Dell Timberworks
Case Study: Chicago Horizon

The first CLT project in Chicago. The pavilion roof structure represents the application of the principles of flat plate (typical to concrete construction) to the material of wood. Two layers of CLT panels—one layer oriented in each principal direction, and each outer layer oriented lengthwise to the 8-foot-wide by 56-foot-long panels—combine to form a two-way spanning plate supported at points by columns. Each layer carries bending in the direction of the panel, with the layer above or below providing shear transfer between adjacent panels (and vice versa in the other direction). The result is a surprisingly thin 8.25-inch roof structure that spans upward of 30 feet between columns. What TDTW learned, the good, the bad, and the ugly...

BIOs

Rick Collins – Rick is a master carpenter, metalworker, mechanic, timber structural expert, educator, writer, historian, and farmer. He has a strong commitment to the preservation and continuation of our built and natural heritage. One of only 20 registered Journeyworker Timber Framers in North America, and a Union Journeyworker Carpenter; Rick has intensively studied the methods and tooling used by Europeans who settled the Midwest from the 1600s through the 1800s. These studies have led him to travel extensively throughout the US and Europe over the last two decades, and offered the opportunity to work and learn with some of the greatest master builders, craftspeople, and building historians in both continents. His interest in history, mastery of traditional tooling and techniques, and decades of experience as a builder allow him a unique perspective that bridges many disciplines. Rick regularly writes for trade journals, speaks locally and internationally, leads workshops and timber framing events - consults and teaches timber framing and restoration methods. He is a member of the board of directors, and former president, of the Timber Framers Guild. He was an integral part of the formation of the Journeyworker/Apprenticeship Program- the first federally recognized professional Timber Framing training program. He now supports the program as a teacher and facilitator.

Joe Miller – Joe's research focuses on key laminated beams and the strength of wooden dowels, and his findings have significantly advanced the acceptance of timber frame construction among engineers and code officials. He is a partner with Fire Tower Engineered Timber, where he applies his experiences and interests in structural analysis and timber design to projects throughout North America. He is a licensed professional engineer in several states and provinces and participates in a number of trade and professional groups. Joe received a bachelor's degree in civil engineering from Rose-Hulman Institute of Technology, a master's degree in civil engineering from the University of Wyoming, and a doctorate in philosophy of civil engineering from Michigan Technological University.

Greg Swiss – Greg understands how buildings use energy- he received his Bachelors in Mechanical Engineering at Iowa State, and a Masters in Energy Engineering from University of Illinois Chicago. Between the two degrees, he worked at SEDAC, an applied research group from the University of Illinois Urbana-Champaign, where he intensely analyzed the energy performance of hundreds of buildings in Illinois, and developed calibrated energy models to represent them. This real world data, and working knowledge of buildings, led him to his current work with Cyclone Energy Group as a building analyst. He is fascinated by the interactions in buildings and has a passion for improving the energy performance of our buildings.

Will Denton – Will has been with Trillium Dell Timberworks since January of 2014; he is a Journeyworker Timberframer, and a Union Journeyworker carpenter. He now works as a project manager for TDTW (handling bidding and estimating as well). Part of the first graduating class of the American College of the Building Arts, he is one of a handful in the country that hold a Bachelors of Applied Science with a major in Timber Framing. Will is an active member of the Timber Framers Guild (TFG), has organized and led complex volunteer projects/raisings for them. He is vocal member of the Timber Framers Business Council and the TFG Projects Committee, and speaks to groups regarding project management and heavy timber construction.

Getting Here

Just in case "the google" won't do it...

Trillium Dell Timberworks: 1283 Knox Road (AKA Davis Road) 1600N, Knoxville, IL 61448
nicole@trilliumdell.com (309)289-7921 www.trilliumdell.com visit us on Facebook

A Note On Internet Directions: Take care when using MapQuest, Yahoo, or GPS directions to travel to our shop for the first time. These maps often use rural roads that we do not. Please take a look at the directions and landmarks we have listed below.

Directions from Chicago: (from the East)

Take Interstate-80 west (toward Iowa) to Exit #27 – Take Exit # 27 (Galva/Atkinson). Turn left at the exit stop (south to Galva). Follow County Road 5 approximately 18 miles to Galva. In Galva cross the railroad tracks and continue two blocks to 1st avenue. At 1st avenue take a right (west) at the stop sign, continue 1 block and take a left (south) on IL-17 to Williamsfield.

Continue south 9 miles to IL-167 (after 4 miles, IL-17 becomes IL 180), take a right (west) onto IL-167 towards Victoria. Go 6 miles (through Victoria) on 167 and take a left (south) onto E-1500/County Highway 12. Preceding this turn you will see a big blue sign that says "Tourist Activities" and Trillium Dell Farm. Follow E-1500/County Road 12 about 2 miles south, follow the curve to the right (west) and head about 1 mile to a stop sign. At the stop sign, County Road 12 continues to the left (south). Take a left turn and continue for 4 1/2 miles (past Oak Run Golf Course) to Old Wagon road (1575 N).

At Old Wagon road (at the top of a steep hill) take a right (west). You will see small Trillium Dell signs from this point on. Continue 1 mile (past the Appleton Fire Station) to Knox Road 1350 E. At 1350 E take a right (north) and drive 1/8 of a mile to 1600 N. Take a left (west) at 1600 N (at the blue farm house) and drive approx 1/2 mile to the shop entrance, where you will see a hanging Trillium Dell sign on your right.

Directions from Galesburg or the Quad Cities: (from the West)

I-74 East to exit 54 (Lewiston exit). Turn Left off of exit ramp (150 E to Peoria). Cross over I-74. Turn right on IL-150 East. Continue on IL-150 for approximately 5 miles. Turn Left (North) on E-1500/County Rd 12 (Appleton-Oak Run Blacktop). Preceding this turn you will see a big blue sign that says "Tourist Activities" and Trillium Dell Farm. You will be on County Road 12 for 2 1/2 miles.

Cross the RR tracks, and continue up a steep hill. At the top of the hill turn Left (West) on Old Wagon Road (1575 N)(before you go down the hill). Look for a small Trillium Dell sign at the turn. You will see small Trillium Dell signs from this point on. Continue 1 mile (past the Appleton Fire Station) to Knox Road 1350 E. At 1350 E take a right (north) and drive 1/8 of a mile to 1600 N. Take a left (west) at 1600 N (at the blue farm house) and drive 1/2 mile to the shop entrance, where you will see a hanging Trillium Dell sign on your right.

Directions from Peoria: (from the South)

I-74 W to Exit 71 (Canton- Kewanee exit). Turn right (north) off of exit ramp. Follow 150/78 for approximately 3 1/2 miles. Turn left (west) on IL-150 West (towards Galesburg). Continue on IL-150 for approximately 12 1/2 miles. Turn Right (North) on E-1500/County Rd 12 (Appleton-Oak Run Blacktop). Preceding this turn you will see a big blue sign that says "Tourist Activities" and Trillium Dell Farm. You will be on County Road 12 for 2 1/2 miles.

Cross the RR tracks, and continue up a steep hill. At the top of the hill turn Left (West) on Old Wagon Road (1575 N)(before you go down the hill). Look for a small Trillium Dell sign at the turn. You will see small Trillium Dell signs from this point on. Continue 1 mile (past the Appleton Fire Station) to Knox Road 1350 E. At 1350 E take a right (north) and drive 1/8 of a mile to 1600 N. Take a left (west) at 1600 N (at the blue farm house) and drive 1/2 mile to the shop entrance, where you will see a hanging Trillium Dell sign on your right.

LOCAL LODGING

These options are all approximately 15-20minutes away from our shop.

B&BS CLOSE TO OUR FARM

THE BARN

1690 Kenny St, Dahinda, IL 61428
(309) 639-4408

WALNUT GROVE FARM

1455 Knox Station Rd, Knoxville, IL 61448
(309) 289-4770

B&BS IN THE AREA

SEACORD HOUSE

624 N Cherry St, Galesburg 61401
(309) 342.4107

HOTELS

COMFORT INN OF GALESBURG

907 W Carl Sandburg Dr, Galesburg 61401
(309) 344.5445

COUNTRY INN & SUITES

Promenade Court, Galesburg 61401
(309) 344.4444 or (309) 344.2284

HOLIDAY INN EXPRESS

2160 E Main Street, Galesburg 61401
(309) 343.7100

BAYMONT INN

2285 Washington Street, Galesburg 61401
309-343-7600

FAIRFIELD INN

901 W Carl Sandburg Dr, Galesburg 61401
(309) 344.1911

BEST WESTERN PRAIRIE INN

260 S Soangetaha Rd, Galesburg 61401
(309) 343.7151