



SCANTLINGS

NEWSLETTER OF THE TIMBER FRAMERS GUILD

NUMBER 191

JANUARY 2015

TTRAG members meet in early November

MICHAEL CUBA

Members of the Traditional Timberframe Research and Advisory Group (TTRAG) gathered over Halloween weekend at Canterbury Shaker Village, in Canterbury, N. H., for 2014's annual member meeting. Arron Sturgis arranged the meeting at the Shaker Village, where he has recently taken on the responsibilities of maintaining the numerous historic buildings there. Since 1969, Canterbury Shaker Village has been operated by a non-profit organization dedicated to preserving the history and culture of the community. The village includes 25 original Shaker structures along with four reconstructed Shaker buildings set on almost 700 acres. Canterbury Shaker Village was founded in 1792 by followers of Mother Ann Lee. During the 1850s, as many as 300 people lived in the village. At its height there were over 100 buildings set on 3,000 acres.

In addition to the usual meeting schedule of member presentations, Arron arranged a behind-the-scenes tour of several historically and architecturally significant buildings at the site. Among the structures that we were able to examine was the dwelling house. The

original section of the house was constructed in 1793. Additions were made to the house until its current form was completed in 1837. TTRAG members were impressed by the quality of the craftsmanship, especially in the storage hall, which is lined from floor to ceiling with drawers and cabinets to accommodate the needs of community members.

From the dwelling house, members moved on to explore the sisters' shop, built in 1816, the north shop (1841), and the cart shed (1841), an open timber and stone building. A horse barn dating to 1819 was the last stop before concluding the tour at the meeting house. Moses Johnson built the meeting house in 1792. Johnson is credited with the construction of at least 10 meeting houses at Shaker communities in New England. The gambrel-roofed timber frame includes large, closely spaced bents, as was common with Dutch building styles but certainly unexpected in northern New England. The egalitarian feel of the meeting house is a stark contrast to the mostly Puritan-inspired meeting houses

See TTRAG, page 4



Photos Ken Rower

Dwelling house on the tour accompanying the TTRAG member meeting at Canterbury (N.H.) Shaker Village.

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Newsletter of the Timber Framers Guild
Number 191 January 2015

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Founded 1985

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Scantlings, the member newsletter of the Timber Framers Guild, is published in January, February, April, May, July, August, October, and November. Next deadline: January 10.

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Small library a scale model of timber frame pavilion

PETER HANEY

In early November, I built and installed this neighborhood small library for my friend and neighbor. It's constructed with over 40 bona fide mortise and tenon connections, a cedar shingle roof (from cedar shims), copper drip edge, beetle-kill "timbers," a stucco finish, and naturally bent pieces from the dreaded Russian olive tree. This was my first experience building a large-scale model of a contracted building and I had much fun in the process, essentially, pre-building the real thing. The bottom photo shows the new owner making a first contribution to the new library. There are thousands of [small free libraries](#) like this around the world. The ultimate project is [Shambhala Mountain Center's](#) timber frame meditation pavilion, a collaborative effort between Chris Drake and me. Chris generated the basic design, performed the engineering, and will help with layout, cutting, and assembly.



Photos Peter Haney

New owner adding first books to small library.

Financial look at 2014

FINANCE COMMITTEE: CHRISTINE BENSON, CHARLES LEIK, MACK MAGEE, SUE WARDEN

As this year winds down and as we prepare to celebrate the holidays and enjoy a respite from the hectic pace of modern life, your directors are pleased to report that the financial position of the Guild is strong and getting stronger.

The Guild successfully increased income and aggressively reduced costs, allowing us to zero out our line of credit by year-end, improve our balance sheet, make good on our commitments, resume the printing of [Timber Framing](#), develop a much-needed new website, and secure the wherewithal to hire an executive director to build on this impressive start.

We'll report the numbers in just a bit, but we want to make clear that it was a Guild-wide effort, headed by a great team leader in the person of Brenda Baker. From the efforts of the project leaders to the yeoman's support of the project volunteer participants at [Lake Naconiche](#) and [Pemberton](#), from the workshop and conference organizers to the supportive attending Guild members and auction bidders, from the returning members to the new members, and from all the volunteers who contributed countless hours to those who were generous with their financial contributions, we learned that the Guild is every bit as vibrant and dear to its members as it has ever been.

For all of this, we thank you. We could not have done it without you.

.....
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.....

As this is intended to be a financial report, we'll dwell on the numbers a bit.

Our income so far this year (through November) has been \$281,158 while our costs have only been

\$134,685. This is a greatly improved situation, and the board is committed to repeating and improving upon it albeit only with your help.

The improving net income has had the desired effect upon our balance sheet. We currently have assets of \$270,424 (up from \$169,159) and liabilities of only \$135,686 (down from \$198,893). We pledge to assiduously build and wisely use these assets next year and beyond.

Typically we report on the previous year's financial activity; a detailed report is overdue for 2013. You may view the 2013 Financial Audit in the [Members-Only section of the website](#). (If you need the password, ask [Sue Warden](#) at the Guild office.) Since we are now in 2015, we plan to combine financial reports for 2013 and 2014. Look for another, more detailed financial report in February consisting of a table-comparison of 2014, 2013, and 2012 (for historical perspective).

Although we are not fond of clichés, one is almost unavoidable: we need to "build a sustainable model" for the Guild finances; that is, a model that will set us on a path that secures the Guild's future ability to pursue its educational mission and maintain this cherished community. Board representatives and representatives from the constituency groups TTRAG, TFBC, TFEC, and ATC have been meeting and working for the better part of the year towards creating one community that is stronger and more effective. We are closing in on the solution to achieve this end and we hope to present it to the membership very early in the New Year for your approval. We expect this solution not only to build our community, but also to improve our effectiveness, allow us to better pursue our educational mission, and strengthen our financial position. We will continue to report to you our progress towards this goal, and we will include financial projections when are ready to schedule the vote.

If you have any questions or comments, please do not hesitate to [tell us](#).

Wishing you all the very best in the new year.

Canada-East Regional Gathering

MARK GILLIS

A gathering aimed at those new to timber framing is scheduled for Friday, January 30, at the Nova Scotia Community College Kingstec campus in Kentville, N.S. The event will offer a full day of classroom-based instruction, hands-on learning, peer-to-peer networking, good times, and camaraderie. Presenters will include Mark Gillis of Gillis & Company Timber Frames, David Pashley of Olde Mountain Carpenters, Austin Parsons of the Architecture Department at Dalhousie University, and Kimberley and Daniel Reagan of TimberhArt Woodworks, with others to be confirmed. Presentation topics include joinery details and decisions, shop drawings, Google SketchUp, Historic Timber Framing of Nova Scotia, Layout and Cutting of Timber Joints, and slide shows. If you are interested, please check Gillis & Company's [website](#) for more details, updated schedule, and contact information.

TTRAG, from page 1 found throughout New England. The absence of a pulpit, fastened pews, and high ceilings seemed to be a dramatic departure from the conventional New England meeting house form.

Although members stayed nearby in a hotel in Concord, N.H., the meeting was held in the 1905 milk house at the Shaker Village. Arron kept everyone well fed throughout the event. For more information about the Canterbury Shaker Village, see [their website](#).

These members presented at this year's meeting:

Dan Boyle, Sabbathday Lake Shaker Community, N.H.
Michael Burrey, Hewing for the Queen, Hatch Mill, Marshfield, Mass.
Michael Cuba, Federal-era barns of Hartland, Vt.
Jim Derby, Transitional New England barns
Elric Endersby, Double Dutch: two bay Dutch barns and wagon houses
Alex Greenwood, Quaker barns in Pennsylvania: four barns and a wagon house
Dave Lanoue, Whately barn, Whately, Mass.
Rick Lazarus, Traditional barns of Languedoc, France
Andy LeBlanc, Wozniak barn: frame design and details
Jan Lewandoski, Truss repair, 1835 church, Montgomery, Vt.
John McNamara, Heritage House (c. 1840), Dimock, Penn.
Randy Nash, Albion's seed: four British folkways in America
Paul Oatman, Building a replica of Sutter's sawmill, Colma, Calif.
Doug Reed, Log frame cornering techniques
Ken Rower, The old church roof frame, ca. 1795, Bradford, Vt.
Peter Smith, Bardeen-Culver barn (1693/1715)
Jack Sobon, English barns in the hill towns of western Mass.
Arron Sturgis, Canterbury Shaker Village, N.H.



Storage hall in dwelling house.



Meeting house from dwelling house cupola.



Left to right, Rick Lazarus (in back), Michael Cuba, Peter Smith, and Dan Boyle.



APPRENTICE LOG

My path to apprenticeship

WILLIS ROZYCKI

I started my journey as a carpenter with summer jobs, sweeping sawdust and getting bossed around jobsites in Telluride, Colorado. Despite the hard work and hazing, I fell in love with building. One summer, I was doing my best trash compactor stomp when I was told I was going to help some fellas with the timber trusses that were going up in a massive spec home. At the time, I had no clue what that meant or where it would take me, but from the start, I was intrigued. These guys were different. They were much less frantic. They were incredibly intense and patient. They read or did crossword puzzles on our lunch breaks.

I was enamored of the marks left by the hewers on this old frame. There was character and history in each piece.

By the next summer I had decided that if I was going to be building, I wanted to build with timbers. I sniffed around town and found a guy who was re-building an old oak frame. The frame now sits at 11,675 ft. as the **Opus ski hut** in Colorado's San Juan Mountains. I was enamored of the marks left by the hewers on this old frame. There was character and history in each piece. Seeing this frame go up was more fuel for my fire. Then summer was over and it was back to school.

I moved to Hawaii to finish college. In other words, I didn't know what I wanted to study, but knew I wanted to surf. I met a guy out in the water who told me he was building a timber frame and was looking for help. I decided school could wait.

Two years later, I had been a part of some beautiful frames, but I was sick with island fever and longed for the mountains. I moved back to Colorado, this time to

Denver, remodeling homes and itching to timber frame. I had heard about the Guild. I called Joel McCarty and told him that I wanted to timber frame. He laughed and gave me a couple names: Frameworks in Fort Collins and Timmerhus in Boulder. Fort Collins was a longer commute than I wanted, so I called Ed Shure at Timmerhus. A couple years later I had learned more than I had ever dreamt possible.

As much as I love Colorado, I was ready for a change. I packed up and headed for the Pacific Northwest, a place I had always been curious about. I ended up at a Guild regional meeting hosted by the Cascade Joinery in Bellingham, Washington. Instantly, I felt at home in Bellingham and at the Joinery.

I am currently working at the joinery as an active participant in the apprenticeship program, under the supervision of Ryan Misolek, a journeyman. I feel incredibly grateful that I found this crazy, beautiful craft. As an apprentice I feel confident and comfortable asking questions that I may have pretended to know the answers to or just avoided before. Instead of treading water, I am starting to swim.

As an apprentice I feel confident and comfortable asking questions that I may have pretended to know the answers to or just avoided before. Instead of treading water, I am starting to swim.

I look forward to rest of my journey. I'm taking in as much as I can so that I can someday pass on what I have learned to the next eager craftsman, or anyone who will listen, for that matter.

Project Horizon planning timber frame addition

GRIGG MULLEN

Project Horizon, the domestic and dating violence prevention program in Lexington, Va., will be expanding their shelter building, and they want the help of the timber framing community to make it happen. In 1999, the TFG, Virginia Military Institute, and others helped build the original shelter, two timber framed stories over a concrete ground floor. Details for the addition are still firming up, but an approximately 2600 sq. ft., three-story expansion, the upper two timber framed, will be added to the side of the existing shelter. Andrea Warchaizer is the architect. Just to make it interesting, the end wall is canted at about a 72° angle to the ridge because of lot setback requirements.

The preliminary build plan is for Saturday, March 21, through Tuesday, March 31: eleven days including two weekends, the week in between, plus two days on the end. More details will follow as they develop. Reach [me](#) or [Cindy](#) for more information.



The green building movement

RICK COLLINS

As an Illinois native, I've noticed that trends usually trickle from heavily populated regions to rural and agricultural areas. This does not exclude timber framing. When I started this work in 1995, I felt like a pioneer in the field. However, I've recently worked on a couple projects with environmentally conscious groups, and I think there could be a larger green building movement headed this way.

"Dark ages" of wasteful building products

For the last 60 years we have suffered through what I have come to call the "dark ages" of architecture and building technology. I believe this shift began in earnest in the 1950s when organic products were rejected in favor of plastics, steel, gypsum, and concrete, all of which required huge amounts of energy and money to produce. Many buildings were leveled in an initial haphazard modernization. Due to the extreme loss of materials and historical structures, we likely won't recover from the post-World War II wasteful transformation of the built landscape. These so-called "modern" products are also massive CO² emitters. According to nonprofit [Architecture 2030](#), the U.S. building industry accounts for 47% of greenhouse gas emissions, with concrete and steel contributing 8% of the world's total greenhouse gas emissions. Wood, however, is the only material that grows every day with the sun's energy. Besides its many other properties, wood is also 400% better at insulating than steel and 15% better than concrete.

Finally, the tide seems to be turning as the modernization of building technology reached a zenith in the early 2000s prior to the recession. What began in the wealthy and decadent '50s and '60s has ended, I hope, and we are returning to a more sustainable way of building in the next century. According to a

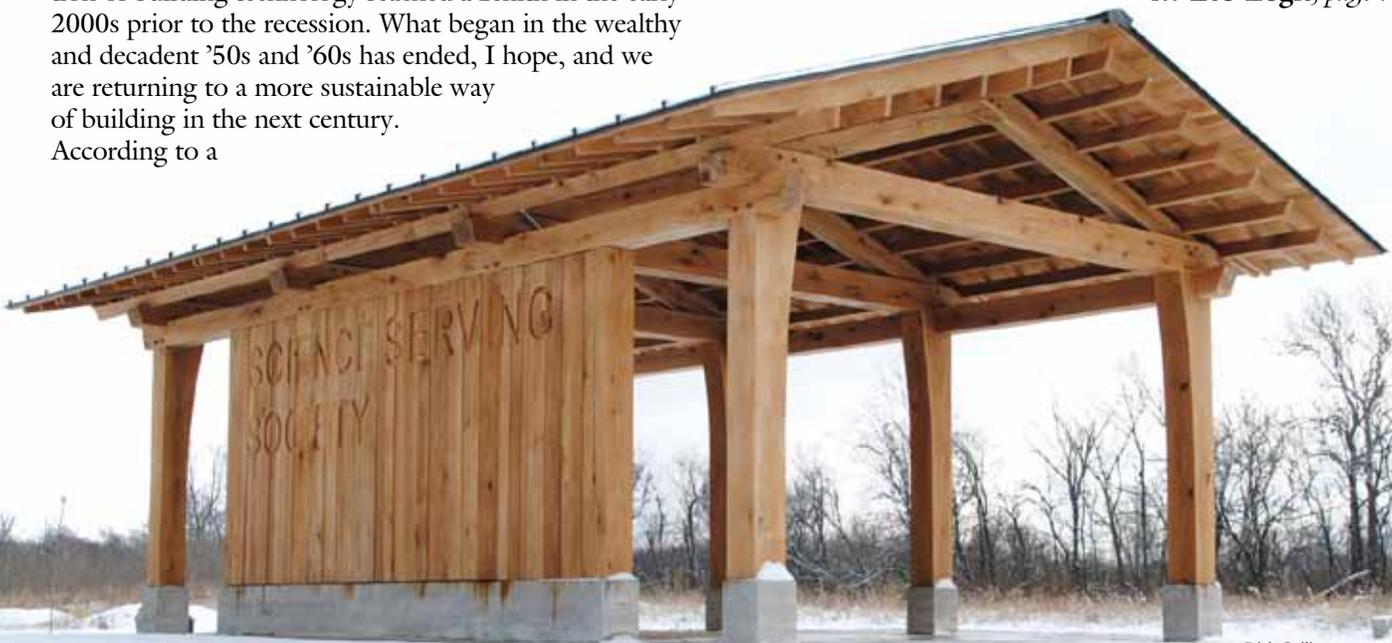
March 18, 2014, USDA News Release: "(The) innovative use of wood products is already beginning to change the face of construction across the country and the USDA is undertaking efforts to support these advancements."

I think people might be surprised to learn that today North America has roughly the same amount of forested land as it did a hundred years ago. This statistic is tempered by the fact that much of North America east of the Plains states had been clear-cut by then. Nonetheless, much of the eastern forests were re-growing by 1900, and we have slowed the tide of the clear-cut slash and burn practices that were so prevalent with European immigrants to this continent. The re-growth of our forests has allowed us to think about using wood as a building material in a more sustainable way today.

Timber framed pavilion at Notre Dame

I recently worked with architect Aimee Buccellato on an open frame pavilion for a research facility run by the University of Notre Dame (ND), in South Bend, Indiana. Aimee says, "By sourcing minimally processed, local building materials and utilizing durable traditional timber framing construction techniques, the Education and Outreach pavilion is a structure that embodies ND's commitment to solving the world's most pressing environmental problems, and will represent ND's legacy in science and education for years to come." Aimee, also a professor in the School of Architecture at ND, is performing a lifecycle assessment with her students

See Eco-Logic, page 7



Rick Collins

Eco-Logic, from page 6

on their new structure. This study assesses the environmental impacts of a product from the extraction of its raw material to its disposal. The total input energy and the environmental outputs throughout this lifecycle are quantified and used to evaluate the environmental performance of the building.

“Biophilia” at a theatre

Wood makes sense in many ways, and by using it for modern commercial applications, we can once again develop sustainable low-impact large structures. I believe this is why the Studio Gang (Chicago) architects chose wood for a large commercial project in Glencoe, Illinois. We are working with them on this new theatre featuring a very large exterior truss on the front. The large wooden-truss walkway is a key way for people to interact with the building. People feel an emotional response to wood, termed “biophilia” by German psychologist Eric Fromm. Biophilia is increasingly said to influence the construction of buildings like schools and hospitals. According to Wikipedia, the [biophilia hypothesis](#) suggests, “there is an instinctive bond between human beings and other living systems,” and Studio Gang’s website states, “Each project is designed to resonate with its specific site and culture while addressing global themes such as reuse and sustainability.” What else can this be but the biophilia that Fromm expressed?

The case for tall wood buildings

In a [TED talk](#) this year, Michael Green reported that in lifecycle assessments like Aimee Buccellato’s, wood significantly outperforms steel and concrete. A three- to five-story building made from wood is equivalent to taking up to 550 cars off the road for one year. A 20-story steel and concrete structure emits 1,215 tons of carbon dioxide,

while one built of wood actually sequesters 3150 tons! The 3150 tons of potentially harmful gas removed by the wood is equivalent to burning 3 million tons of coal, and, to what can be sequestered by putting 22 acres of industrial cropland into forests, according to Yale studies.

In Green’s [The Case for Tall Wood Buildings](#), he says, “This 200-page document encourages architects, engineers, and designers to push the envelope of conventional thinking by demonstrating that wood is a viable material for tall and large buildings and exposing its environmental and economic benefits.” I agree that it’s time to push the envelope, and a return to how we know we need to live as humans. We hope tall wood buildings like he describes are next on the horizon, yet we should not forget long wood buildings such as the 560-ft.-long covered truss bridge in Lucerne, Switzerland, originally built in 1333.

In reflection, maybe I haven’t been paying enough attention. All of these things seemed so far away from my day-to-day life of residential and light commercial projects where we have been toeing the line. Now they are in the forefront as I see them in my own built environment. There is a new energy out there. I feel it when I spend time with the new generation of hard thinking architects and engineers. These people seem to have transcended the “dark ages” and are now ready to embrace a material that has kept us safe from the elements for most of human existence. What began as a grassroots revival to build timber frame houses now has another dimension. I would not suggest the two movements are interdependent or even co-dependent but it does speak of a need and demand for change. Cultural change is necessary to reject what has been the norm for almost seventy years. The stones have been laid for a new foundation of building and it is happening everywhere now, even in the Midwest. As craftspeople, we will continue to be called to construct these new visions. Are we all ready to embrace this new vision and enable it?

A playful tribute

Recently, 16 friends and family, including eight members of the timber framing community, rafted down the Colorado River through the Grand Canyon for 280 river miles in 21 days. The group stopped here at Redwall Cavern, where it’s been said that 5,000 people could fit for a concert, and composed this image in honor of Ed Levin, who created a wonderful design, along these lines, for the Guelph Bridge Project so many years ago. Included in this image are Will Beemer, Dennis Marcom, Jeff Arvin, Chuck Dougherty, Jonathan Orpin, Will Fowkes, Tim Krahn, and Carlos Sosa.



SE Regional Meeting: new Hundegger, CLT, ASSY screws

BRICE COCHRAN

On November 1 at 5 am, Stephen Morrison of Moresun Woodworking and I left for Sauter Timber in Rockwood, Tenn., for the annual Southeastern Timber Framers Guild Meeting. We made our way through the snow and wind, looking forward to seeing friends and exploring the technology that Reinhard and his team employs to cut timbers, and to hear about Cross Laminated Timbers (CLT). These technology presentations were the great draw of the trip.

After arriving, meeting everyone, and getting a cup of tea, we all sat down for the first presentations of the day. Reinhard's crew demonstrated the new Hundegger Robot 6-axis CNC machine, turning out an example of a reciprocal roof in a matter of about 30 minutes.

The next presentation coupled the machine with hand layout in a test of accuracy. We first had a brief lesson in a new software solution called SEMA that automates a lot of things I do manually in AutoCAD while designing a frame. They pulled out a jack rafter in the frame they were working on, printed the drawings for everyone to see, laid out the timber by hand, and then the fun began. They threw that piece in the Hundegger Robot machine and started cutting it from the code the software produced for that piece. It was cool to watch it cut the lines that a person had laid out. After careful examination, the bird's mouth cut that was hand drawn turned out to be off by 1/16th of an inch.

After lunch, Charles Judd did a presentation on CLTs, then led a discussion about them. A CLT is a bunch of 2x material laid up in 4.5 in.–12+ in. x 48 in. wide, in lengths up to 48 ft. long, forming giant panels that can then be cut into truss components or into walls or roof panels. Charles recently led a crew in building a school

from these panels in West Virginia, and his presentation was about installing them. Sauter's shop is made of these panels, and it was great to see them in use. My big takeaway was that these panels are really cool they are an upcoming building technology and I want to be a part of using them.

Will Leverett of Log and Timber Connections spoke about ASSY screws and some of the new fasteners that are going out. These screws are strong and drive better

See SE Regional, page 9



Photos Brice Cochran

Panels at Sauter shop.



ASSY screws.



Layout.



Reciprocal roof.



Reciprocal roof detail.

than most because of how they are made. Will also talked about the strength and benefits of fully threaded screws and their different applications. I have been looking into using them for some connections, such as keyed beams, and it was good to hear some other things we can use them for in our industry.

After Will's discussion we all sat down, had a beer, and had an open round table discussion on the future of timber framing, CLTs, marketing, and anything else that

came up. It was certainly worth the eight-hour round trip, and it was a good time to see the new technologies that are heading our way. A special thanks to Reinhard and his team at Sauter Timber for organizing the day, providing meals and T-shirts, and giving us all things to think about for months to come. Thanks to additional sponsors TimberLinx, Northwest Specialty Timber, Log and Timber Connections, Hundegger USA, and Fire Tower Engineered Timber.

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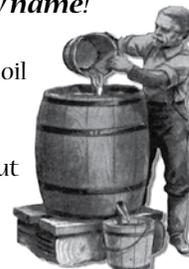
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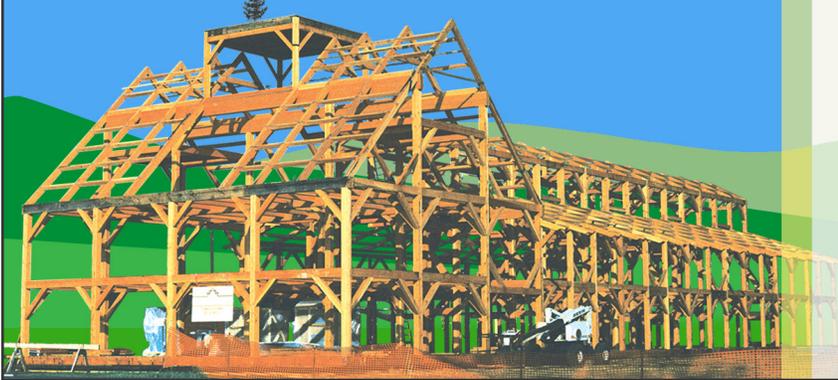
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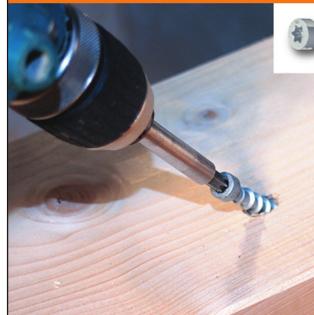
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EVENTS



These listings are for Guild workshops and meetings, were submitted by Guild members, or announce other relevant events.
For more info on Guild events or to register for any TFG project, reach [Sue Warden](#), 855/598-1803.

Guild tours and events

Canada-East Regional Meeting Jan 30 Kentville, Nova Scotia.
[Mark Gillis](#). See [page 3](#).

2015 ATP Assessment and training Feb 20–22 Ft. Collins, Colo.
[Curtis Milton](#), 603/387-6770.

TFEC timber grading course Apr 13–15 Heartwood School,
Washington, Mass. [Tom Nehil](#).

Timber Framing in Switzerland May 2015

2015 TFG Conference Oct 29–Nov 1 Coeur d'Alene, Idaho.
[Sue Warden](#), 855/598-1803.

other events

EcoNest Natural Building

In Willow Creek, California—

Natural building apprenticeship boot camp May 4–Jun 12

EcoNest Intensive May 11–29

Timber framing May 11–15

Straw-clay walls May 18–22

In Ashland, Oregon—

Japanese Tools and Joinery with Dale Brotherton Jun 15–21

Natural building apprenticeship Boot Camp Jun 29–Aug 7

EcoNest Intensive Jul 6–24

Timber framing Jul 6–10

Straw-clay walls Jul 13–16

www.econesthomes.com, 541/488-9508.

Fox Maple School of Traditional Building

In Nosara, Costa Rica— **Timber framing** Feb 25–Mar 7

In Brownfield, Maine—

Natural enclosure clay building May 28–30

Introductory timber framing Jun 1–6

Advanced timber framing Jun 8–13

Fox Maple workshops, 207/935-3720.

Heartwood School

Timber grading Apr 13–15

Fundamentals of woodworking Apr 20–24, Sep 28–Oct 2

Cabinetmaking Apr 27–May 1, Oct 5–9

Country Woodcraft May 4–8

Sketchup for timber framers May 7–9

Stairbuilding May 11–15

Hip and valley roof framing Jun 8–10

Build an outdoor earthen oven Jun 11–13

Concrete countertops Jun 12–13

Timber framing Jun 15–19, Aug 10–14

Scribed timber framing Jun 22–26

Comprehensive homebuilding Jul 6–17

Finish carpentry Jul 20–24

Carpentry for women Jul 27–31

Converting trees to timber Aug 3–7

Timber frame design and joinery decisions Sep 8–10

Compound joinery for timber framers Sep 14–18

Advanced SketchUp Pro: Layout Sep 11–12

Art du Trait Oct 12–16, Oct 19–23

Washington, Mass. [Michele Beemer](#), www.heartwoodschool.com,
413/623-6677.

Project Horizon

Shelter building expansion March 21–31. Lexington, Va.

[Grigg Mullen](#). See [page 5](#).

Rocky Mountain Workshops

Designing with SketchUp / Eli West May 29–Jun 1, and Sep 25–28

Square rule timber framing: straight and curved timbers / Skip

Dewhurst, Josh Jackson Aug 16–22

Colo. State U. Mountain Campus, Pingree Park, Colo.

Peter Haney, www.rockymountainworkshops.com, 970/482-1366.

Vanaajamaja

Traditional log building in Estonia Mar 23–28 (See [Scantlings 180](#))

Mooste, Polva County, Estonia. [Andres Uus](#), www.vanaajamaja.ee/en.

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NOTICES



Notices are for one-time events and offers, and they run free to Guild members for two issues per year. The cost to non-Guild members is \$60 per notice per issue. A notice, whether free or paid, runs for a maximum of two issues. Notices are intended for onetime events and offers; appropriateness for inclusion is decided by the [editor](#).

for sale

Antique 40 x 80 barn frame.

I own the salvage rights to a beautiful 40 x 80, c.1880 timber frame barn standing in NW Vermont. Mix of hewn and sawn softwoods, aisle layout, unique girt-and-stud framing. It's in good condition. I need movement on the frame—buy the salvage rights for \$2000 obo, or I can take it down / restore / raise it for your project. [Photos and description here](#); [Will Gusakov](#) for more info.

Barngrover Barn.

The Barngrover Barn at Sagert Farm (in Tualatin, south of Portland, Oregon) is going to be demolished. Do you want to remove and repurpose it? Small photo shows it's Dutch roof style, other info 56 x 73 ft., mortise and tenon construction. Price negotiable. By appointment only to [Mike Anders](#), Lennar Sales Corp.

Workshop frame.

Workshop frame at a great price! 12 x16-ft., three-bent frame. Includes floor system. See the photo/drawing on our [website](#): click on "Mastering The Basics Of Square Rule Timber Framing." References from previous buyers are available. For details, reach [Peter Haney](#), workshop organizer, 970/482-1366.

wanted

Salt box barn, siding.

A client needs salt box barn roughly 32 x 72 ft. w open center bay, clearance 12 ft. Ready to purchase this barn now and erect when your schedule permits. Ideally, the timber frame company will certify barn is structurally sound when erected, dismantle at current location, transport to Denver, and re-erect barn on-site. Foundation work would be by another contractor. If barn is complete with siding this is ideal. If not, I also need quotes from timber framers who have salvaged barn wood siding. If you have ideas such as different dimensions, taking symmetric barn and removing one bay, etc., please respond. [Al Wallace](#), 303/877-5776.

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help wanted

Construction supervisor.

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HSB designer.

Experienced HSB and/or AutoCAD timber frame designer required for a full-time position in Denver, Colorado. Must be able to produce professional shop drawings; knowledge of Hundegger K2i machinery operation a plus. [Rocky Mountain Joinery Center](#), 720/407-7760 or [Justin](#).

employment wanted

Winter work.

Seeking employment for a couple of the winter months (preferably in a warmer climate) where I can sharpen and expand my timber framing skills. I run my own small log and timer frame business, [Woodlot Woodworks](#), in the Adirondacks. But this winter I'd like to work with other timber framers or a larger organization to learn some new ideas, techniques, etc. There is a world of knowledge on this incredible art and I have only scratched the surface. If any such opportunity exists within your company please tell [Abraham Gadjó](#), 518/791-7788.

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