



SCANTLINGS

NEWSLETTER OF THE TIMBER FRAMERS GUILD

NUMBER 195

JULY 2015

Pemberton barn gets one-year checkup

RANDY CHURCHILL

With the promise of free lunch, a few mosquitoes, and reconnection with work mates, 15 TFG members from the original Pemberton crew volunteered to meet on site at the barn on May 22 to see how it was behaving in service. Suzanne Belanger, village project coordinator, was again “hostess with the mostest,” and Cam Adams from the village work staff joined us to learn about the building for future maintenance. We found people enjoying the public open space and a structure shouldering its loads in impressive fashion. The village has landscaped the site nicely and has a slate of special functions such as markets and weddings lined up for the summer. If next winter brings any cold with it, rumor is there will be a curling rink flooded down the main aisle—more reason for future visit to this active community.

Not knowing what to expect, we planned for a full day of inspections. After a late start due to distractions caused when Fred Provost brought Felix, newest future TFG member (three months old), we managed to complete the assessment and task list before 2 pm. Break munchies and coffee were provided by the village, and lunch was generously supplied by local cafe Mile One Eating House.

In good TFG tradition, we incorporated a bunch of training and forced some math on unsuspecting younger members. With energy to burn, others pulled sockets out of tool boxes and successfully put a wrench on almost every nut and bolt in the building! Project engineer Robin Zirnhelt was also able to attend and was very happy with what he saw.

Some of the highlights of what we found (none of which are surprises):Timbers have checked and twisted



Randy Churchill

One year after its completion, 15 volunteers who helped cut and raise the frame were on site to give the barn a tune-up. Mount Currie can be seen in the background.

much less than expected confirming the high quality stock used and its relatively low moisture content before sawing.

The building was found to be very plumb and true in both directions—something we did not take the time to fully document at raising.

Most nuts could be snugged up one-half to one turn to catch up with wood shrinkage.

All sets of lateral X-bracing (steel rods) required a turn to tension them again.

See Pemberton, page 7

PLEASE VOTE

The Timber Framers Guild board of directors election will close on July 12. It's important that all Guild members participate in this election.

Election instructions are at www.tfguild.org/members.

Voting is online via the URL sent to members in Weekly Guild Notes. Call Sue (855/598-1803) if you don't have the web address or need to vote by mail.

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Newsletter of the Timber Framers Guild
Number 195 July 2015

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PO Box 60, Becket, MA 01223, www.tfguild.org.

Jeff Arvin, executive director, 413/443-1803.

Brenda Baker, program manager, 517/403-6760.

Sue Warden, business manager, 855/598-1803.

John Miller, president • Gabel Holder, vice president • Mack Magee, treasurer • Christine Benson, clerk • Paul Freeman, Ellen Gibson, Stephen Morrison, Jonathan Orpin, Al Wallace, directors at large

Accacia Mullen, *Scantlings* editor • Susan Witter, *Scantlings* consulting editor • Brittany Robertson, *Scantlings* layout

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News contributions and correspondence: **Accacia Mullen**, *Scantlings* editor, 3525 Maury River Rd, Rockbridge Baths, VA 24473. 540/817-9398.

Village thanks Guild

The community of Pemberton had a vision to create a gathering space that would reflect the rich history and culture of the area. The construction of a pavilion, affectionately called a “community barn,” was made possible in part by the village’s support and generous contributions from community partners. Yet, what made this project truly feasible and so exceptional was the partnership with the Timber Framers Guild.

Little did we know that the passion and commitment of the TFG and its members, with Randy Churchill leading the way, would truly inspire hundreds of volunteers. From site preparation to the barn raising event, the to-do list was long but the many hands joining in the effort made it all possible. As Helen Keller said, “Alone we can do so little; together we can do so much.”

Five months have gone by and the community barn has been full of activity, including the weekly farmers’ market and visitors stopping by to marvel at the structure. The finishing touches are almost complete; the building is stained, trees are planted and lighting is installed. Pemberton’s sense of pride is bigger than it’s ever been!

THANK YOU TFG!

Suzanne Belanger
Barn project manager
Village of Pemberton



photo courtesy Friends of the Red Mill

Red Mill, Portland, Mich., site of upcoming TFG community building project. See page 3.

Staff changes, new address at ILBA

Ann Miks, administrator at International Log Builders' Association (ILBA), has decided to retire. For 15 years Ann has been working in our office and at our conferences. Since 2007 Ann has been in charge of the ILBA. Ann has been nothing less than the heart and soul at the center of the ILBA. "Thank you," Ann, from the bottom of our hearts for all you have done for our members, for our association, and for the log construction industry!

And now Ann is training our new administrator, Symphonie C. Nadeau. The board of directors hired Symphonie after a lengthy search in which five candidates were interviewed. We welcome Symphonie to the ILBA, and to her important new position working for us.

And, more big news. We are moving our office to Montebello, Québec. At first, the ILBA office will be in Symphonie's home near Montebello. But thanks to Robert Savignac, we have been offered office space owned by the Château Montebello, and we might be moving into a log building near the Château. This sure seems fitting: the ILBA with a log office in the same

town that this September will celebrate itself as the world headquarters of log construction, and the location for our September, 2015 conference and annual general meeting. We like the sound of all of this!

We have completed our move to Montebello, and our contact details are:

International Log Builders' Association
PO Box 1641
Montebello, Québec J0V 1L0 CANADA

Watch your inbox for an email from Symphonie with more news.

Best regards,
Robert W. Chambers
President, ILBA
Robert@logbuilding.org

Links:
symphonie@logassociation.org
www.logassociation.org

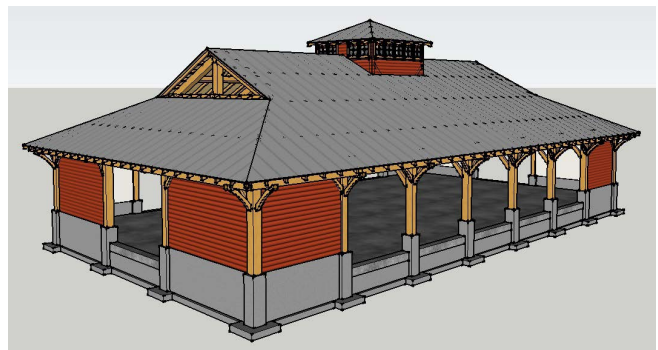
Michigan community building project in August

MACK MAGEE

Registration has opened for the Red Mill pavilion project in Portland, Mich., August 1–13, conducted along with the Friends of the Red Mill. There are two options for participants: a square rule compound joinery workshop and a timber framing fundamentals workshop with classroom and hands-on experience. Will Denton, Trillium Dell Timberworks, is leading the project and the instruction.

The pavilion will feature a Dutch gable roof with a cupola supported by five 48-ft. clear span king post trusses. The rough sawn timber for the frame is locally sourced and milled, emerald-borer-killed ash for the roof structure, and white oak for the posts. Participants will process 24,000 bd. ft. in the roughly 675 pieces that comprise this frame. We will be using and teaching square rule mortise-and-tenon joinery, so it promises to be an excellent learning opportunity.

Besides preparing the site and supplying the timber, the Friends of the Red Mill will be hosting the participants from the Guild. They will work with the greater Portland community to provide campsites, showers, and plenty of food for all. Trees have already been felled, and a local volunteer is sawing the logs into timber. The community is installing the foundation as you read



The Red Mill Pavilion design, Portland, Michigan.

this. The local hero is Noreen Logel who is a great and cheerful organizer and is working with an excellent team to prepare for our arrival.

Links:

Read more about the project, including registration info—www.tfguild.org/projects

Read more about the mill restoration—www.thebarn-journal.org/redmill/001/index.html

Email Mack—m@ftet.com

Email Will—will@trilliumdell.com

Northwest Regional Meeting, Squamish, B.C.

MACK MAGEE

Timber framers from British Columbia and Washington state traveled to FraserWood Industries in Squamish, B.C., for the Northwest regional meeting on May 23. In all, 70 people participated in this event intended to build our community and share knowledge. More than half had participated in the Pemberton Market Hall build—an impressive structure of which the Guild is duly proud. Fifteen Pemberton project veterans returned to the scene before the regional meeting to “tune” the timber frame they had created (p. 1). Afterward, they traveled an hour south to Squamish and joined us on Saturday morning.

John Boys of Nicola Logworks and Garry McConnery of Spatial Technologies started the day discussing collection of onsite 3D data to include in the 3D model for the frame. With increased use of timber connecting to steel and concrete in commercial and large residential buildings, knowing the location of site-built structural elements before the final fabrication of the timber frame can save tens of thousands of dollars in unexpected erection costs as well as schedule loss.

Using a Leica Builder 505 total station, Garry and John performed a live as-built survey. Kai Korinth of FraserWood Industries imported the collected data into the CadWork model and demonstrated how the site-built components were mis-located and how he would alter the design and fabrication of the connecting timbers to correct the errors in the steel.

Next, we moved to the Summit Lodge of the Sea to Sky Gondola, also in Squamish. At the summit, Peter Dickson of FraserWood Industries outlined the five-year, \$22 million project. FraserWood’s role was to fabricate

the post and beam structure, comprised of 120,000 board feet of glulam timber and over 50,000 pounds of steel for connections.

Because the snow flies in mid-October at the summit elevation (design snow load 400 psf), they had three months to design, model, and fabricate the timbers. The design was altered during the entire delivery process to meet budgeting demands, and FraserWood missed the completion date by three weeks. Thankfully, snow was late that year, so the timbers made it to the summit before the snow cut off the access.

Even more compelling was the erection of the Sky Pilot suspension bridge and viewing platforms. Steve Lawrence of Macdonald & Lawrence, the company that erected these thrilling structures, recounted logistic challenges of elevation. All materials were lifted by helicopter to the work sites. Portable rock hand-drilling equipment was used to make a series of 4 in. x 26 ft. deep holes in solid granite for the bridge anchors. As Steve commented, “It ain’t timber framing, but it is fun!”

Steve also described digital photogrammetry (DP), which is increasingly being used in drawings of historic buildings. According to Michael Waas, it is a quick, cost-effective way to document most heritage and archaeological sites for historic preservation and conservation. DP techniques have been used for decades in acquiring dense 3D geometric information for real-world objects, mainly topographic, from stereoscopic image overlap. Steve explained that it now offers very detailed recording of buildings which are misshapen or complex where manual methods of achieving the same results for construction



Summit lodge of Sea to Sky Gondola. Rising 885 meters from sea level, purportedly it is the steepest gondola climb in North America.

are very costly. DP can produce photo rendered models which can then be used to create 2D drawings to be used to guide preservation work.

After lunch, this writer presented a mostly visual guide on designing for snow loads before Dave Petrina of Kettle River Timberworks returned to “Timber Framing in Remote Locations.” Dave reviewed Kettle River’s experience doing remote timber frame construction primarily along the rugged coast of British Columbia. He discussed a variety of lifting equipment suitable for remote raisings, from Genie Lifts to self-erecting tower cranes and tele-handlers. Dave also shared his insight on eliminating the necessity for a crane by designing with shorter, lighter timbers and smaller roof panels or alternative systems to obviate heavy lifts. He gave examples of how to coordinate barging, trucking, helicoptering and landing of materials.

Quinn and Gary Brown of Coastal Paint presented on quality coatings. Quality coatings can make or break a job: if your stain looks bad, the whole frame looks bad. Consider the following in finish choice: increased moisture, ultraviolet, fungal, and insect or fire protection. There are many products on the market to protect against these effects such as KP-11, Foundation, Boracol, and Firestop. He suggested that framers apply it as early as possible. Quality finishing starts at the beginning of the job.

Max Closen of MyTiCon Timber Connectors and Maik Gehloff of Gehloff Consulting outlined recent advances in heavy timber connection technology, most notably those used in timber connection systems such as structural self-drilling screws, pre-engineered connections systems, composite systems (wood-wood, wood-concrete, and wood-steel) and heavy timber lifting devices.

As explained by Maik and Max, perhaps the technology most noteworthy for the inroads they have made in North American heavy timber construction, are high-strength steel, self-tapping screws. Canadian and U.S. code allows for versatile fully threaded versions of these screws to connect timbers and for the reinforcement of existing beams by creating a bridge over cracks or checks so that stresses can be fully transferred to the whole structural member. These screws, designed to work primarily in tension, can also be used for the reinforcement of perpendicular-to-grain notches and can be used to increase the compression strength at bearing surfaces. Partially threaded screws are suitable for resisting shear and withdrawal, the connection of stacked timbers and logs, holding down members such as rafters, and pulling timber members tightly together and into alignment.

Next, Randy Churchill of Churchill Timberworks and the TFG project manager for the Pemberton Market Hall recalled the most compelling aspects of the project, including participant interaction, opportunity for novices to control big lifts with a mentor close at hand, and a positive fiscal outcome for the Guild. Building on projects of the past, he believes that Pemberton further

raised the bar in how to run a successful event for Guild members and community partners. He mentioned that another great result from the project was the production of a short documentary video which all are encouraged to distribute widely. (See the video at <https://vimeo.com/122616425>.)

Dai Ona of Daizen Joinery completed the presentations by hosting a Tech Talk—a venue for people to share their experiences and ideas. Dai kicked it off with a brief presentation of his experience at LIGNA, a biannual trade fair for woodworkers held in Hanover, Germany. He then started the sharing process with three practical tools: a Neuheit linear chain saw guide that can tilt and cut at various angles useful for panel or cross-laminated timber (CLT) fabrication, a Zobo drill guide with heavy shaft that can gun drill up to 8 ft. with ports in the shaft and drill bit for compressed air to blow the dust away from hole and cutting edges, and a Zobo prototype self-drilling tip for Forstner drill bit. Folks were standing on chairs and crowding in to participate.

Following the presentations, Randy Churchill held an impromptu auction, raising over \$500. The generosity of auction donors and buyers and meeting sponsors (FraserWood Industries, Gehloff Consulting, Coastal Paint, Fire Tower Engineered Timber, Spatial Technologies, Evergreen Specialties, LTD., MyTiCon Timber Connectors, and Cascade Joinery) helped keep the registration fee low while providing a net positive financial contribution to the Guild.

Tension testing of joints went well into the evening. If the enthusiasm palpable at this meeting indicates the health of the timber frame industry in the Northwest, there is little doubt about its future here. Several of the participants suggested a return to Whistler for the next western annual conference. This writer agrees, and preferably in early ski season!



Photos Mack Magee

Rigging the Sky Pilot suspension bridge was achieved with simple systems and materials and without any machinery. Portable rock hand-drilling was used to make a series of 4 in. x 26 ft. deep holes in solid granite for bridge anchors.

Norwegian, Australian among new, renewing members

Over 100 people have joined the Guild (or rejoined after a long absence) since October 2014. These members represent 31 states, four Canadian provinces, and two other foreign countries (Australia and Norway). Welcome new members!

Aaron Cox, Jacksonville, Fla.
Alexandre Boudreau, St Jean Sur
Richelieu, Qué., Canada
Amos Delay, Chester, Vt.
Andre Vachon, Sainte-Adele, Qué.,
Canada
Andrew Schaeffer, Wellington, Colo.
Angela Dunavant, Manassas, Va.
Atindra Muhajan, Great Barrington,
Mass.
Balazs Demeter, Mosie, Norway
Ben Collins, Denver, Colo.
Ben Gallagher, Monkton, Md.
Brad Hall, Farmington, N.Y.
Bradley Campbell, Victoria, B.C.,
Canada
Brent Eldstrom, Saanichton, B.C.,
Canada
Brett Hellstedt, North Yarmouth,
Maine
Brian Chappell, Cayuga, N.Y.
Brian Sielaff, Boise, Idaho
Brock Leiendecker, Norfolk, Mass.
Bryan Bleier, Farmington, N.Y.
Charles Bultman, Ann Arbor, Mich.
Charles Wolanin, S. Burlington, Vt.
Chris Nance, Buxton, New South
Wales, Australia
Craig Smith, Cataumet, Mass.
Dakota Costantino, Montrose, Penna.
Dale Emde, Lahaska, Penna.
Dan Mudidman, Clearwater B.C.,
Canada
Dan Roberts, Galva, Ill.
Dan Van Epp, Las Vegas, Nev.
Daniel Devine, Norwich, Vt.
Daniel Geselbracht, Nanaimo, B.C.,
Canada
Daniel Girard, Santa Barbara, Calif.
Darren Watson, Farmington, N.Y.
Dave Van Anda, Knoxville, Ill.

David Shirley, Farmington, N.Y.
Donald Roberts, Claremont, N.H.
Edward Heen, Rockville, Md.
Edward Leik, Pembroke Pines, Fla.
Eric Fraser, Farmington, N.Y.
Eric Meyer, East Wilton, Maine
Eric Moyer, Annville, Penna.
Eric Weninger, La Crosse, Wisc.
Evan Dyer, Rockport, Maine
Evan Wilson, Austin, Texas
Everett Kramer, Germantown, N.Y.
Ewell Smith, Metairie, La.
Gael Vachon, Lace des Loups, Qué.,
Canada
Gary Dunn, Central Point, Oreg.
Gary Loomis, Lynchburg, Va.
Gauthier Murat, Ottawa Ont., Canada
Greg Fletcher, Fairfield, Maine
Hollis Dow, Charlottesville, Va.
Howard Holcomb, Spokane, Wash.
Ian Slatas, Frenchtown, N.J.
James J. Landis, Clallom Bay, Wash.
James Tuthill, Laramie, Wyo.
Jan-Erik Steel, Old Chatham, N.Y.
Jared Abrahamson, Raynham, Mass.
Jasper Mitchell, Brisco, B.C., Canada
Javier Martinez, Montague, Mich.
Jeff Clark, Lyme Center, N.H.
Jeffrey Kelley, Newcastle, Maine
Jeremy Heen, Alexander, N.D.
Jessie Adams, North Springfield, Vt.
Jim Hardwick, Hampshire, Ill.
Jimmy Dube, Calgary, Alberta, Canada
John Cook, Seymour, Mo.
John Davenport, Dexter, Mich.
John Ledington, Flagstaff, Ariz.
John Stann, Reston, Va.
Jonathan Guay, Sre-Emelie Qué.,
Canada
Juan Ruiz, Medicine Hat, Alberta,
Canada

Justin Jaycox, Farmington, N.Y.
Kevin Ponton, Marshfield, Mass.
Kevin Sutherland, Winlaw B.C.,
Canada
Kyle Wright, Colchester, Vt.
Lee Hunsberger, Portland, Mich.
Marc Schaertl, Farmington, N.Y.
Marquand Art Library, Princeton, N.J.
Martin Langlois, Levis, Qué., Canada
Matthew Lavoie, Ashby, Mass.
Matthew Namy, San Francisco, Calif.
Michael Reisch, Charlotte, N.C.
Mike Gullace, Farmington, N.Y.
Mike Westgard, Farmington, N.Y.
Myles Koester, Cranbrook, B.C.,
Canada
Nathan Moore, Winona, Minn.
Owen MacDonald, Farmington, N.Y.
Paul Hartnan, Shirley, Ind.
Paul Plane, Farmington, N.Y.
Pete Heintzelman, Farmington, N.Y.
R. Justin Kirmse, Dixon, N.M.
Randy Allaire, Litchfield, N.H.
Randy Yates, Farmington, N.Y.
Robert Hughes, Wayland, N.Y.
Samuel Harle, Victoria, B.C., Canada
Samuel Koerber, Arden, N.C.
Sara Bradley, Norwood, Ont., Canada
Scott Erricson, New London, Conn.
Scott Skavanger, Robbinsdale, Minn.
Sean Berman, Farmington, N.Y.
Sergio Guindon, Middletown, Conn.
Seth Coleman, Somerville, Mass.
Seth Haines, Williston, Vt.
Terry Ausel, Boone, N.C.
Tim Weaver, Spencer, Tenn.
Tom Harris, Hadley, Mass.
Ty Allen, Farmington, N.Y.
Warren Ashworth, Stone Ridge, N.Y.
William Barry Rec, Lexington, Va.
Windy McGlinsky, Beacon, N.Y.

REGISTER FOR THE RED MILL PAVILION PROJECT

For the timber framing fundamentals workshop, register here: www.eventbrite.com/e/tfg-timber-framing-fundamentals-workshop-tickets-17309437995?aff=es2

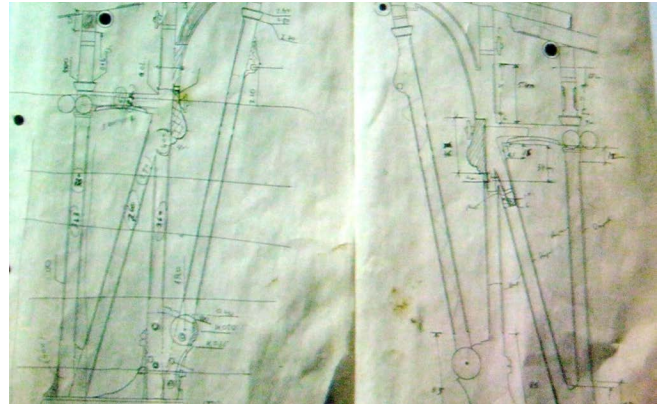
For the General Hands On Participation & Square Rule and Compound Layout Workshop, register here: www.eventbrite.com/e/timber-framers-guild-general-hands-on-participation-square-rule-and-compound-layout-workshop-tickets-17281171449

Return to Istanbul

BRUCE LINDSAY

This spring I was in Istanbul for a few days to talk about cross-functional teams using volunteers for community building timber frame projects in North America. Guild projects use volunteers and instructors with varying degrees of skill to cooperatively complete a project like the Pemberton market hall or Red Mill pavilion. The invitation to speak was the result of several years of building relationships with the restoration and preservation community around Istanbul while researching articles on historic Ottoman wooden houses. The Turkish people have always had a great tradition of hospitality to loyal countrymen, (and courteous traveling strangers) that never disappointed. Thus, I've visited Turkey many times over the last 40 years. The Turks have extended their hospitality to many cultures since they conquered Istanbul in 1453. Those who were loyal to the country during times of upheaval continue to be part of Turkish life today.

The history of the region is fascinating. The Blue Mosque, San Sophia, the many historic churches, palaces, and the Ottoman wooden houses are places I've seen before and am glad to revisit. From the ancient Phoenician port of Chalcedon dating from 685 B.C. on the Asian side, to the European harbor where 36



photos courtesy Bruce Lindsay

Sketch of joinery details, Yildiz Palace timber solarium rebuild.

Byzantine shipwrecks were discovered in 2012 while digging the new subway tunnel, new old things are constantly popping up.

Many historical wooden houses and ships still exist today. Turkish wooden ships once roamed from the Black Sea in the East to Portugal in the West. The Mediterranean was known as a Turkish lake during the

See Istanbul, page 9

Pemberton, from page 1

The big longitudinal log trusses had lost 1 in. (average) of their pre-set 2 in. camber; we were easily able to re-set this to 1½ in. by systemically tightening the multiple diagonal steel tension rods.

Large angled braces to log trusses are still loose in their mortises—hindsight says we should have incorporated a different type of joint here. These braces become vital during a seismic event.

Two small areas of mold formation were found on the round log surfaces and are suspected to be from spores of cambium and sapwood. We sprayed them with chlorine, supplied by the village.

Birds are using some of the upper beams for resting and nesting places, and housings there are filled with debris.

We saw no evidence of vandalism.

Many folks off the street took time to thank us for the building and comment on how impressive it is as a local destination.

Suggestions to the village for future care of the building include:

Apply a second coat of finish throughout and then an eye on finish degradation that will occur on the ends where exposed to direct sunlight and driven moisture.

Conduct a yearly walkaround by village staff (or an experienced timber framer) looking for moisture



photos Randy Churchill

Volunteers tighten bolts and check on the barn's condition after one year.

intrusion, loose tension rods, vandalism, animal activity, etc.

Examine closely the log camber in 2017–18 with a reset of camber to 1 in. minimum if possible.

Thanks very much to the crew for their help: Jim Haslip, Vicky Mason, Martin Stutz, Rob Austen, Brian Livesy, Craig Goodman, Terry Williams, Fred Provost, Adrien Benech, Andrew Preston, Bruce Lindsay, David Boulding, Dave Madden, Robin Zirnhelt. You continue to exhibit amazing dedication to craft and nurturing care for your fellow artisans.

Spring timber grading course success

TOM NEHIL

April 13–15 of this year saw a talented and diverse group converge on Heartwood School in Washington, Mass., for the second offering of the timber grading training course sponsored by the Timber Frame Engineering Council. The group included timber framers, structural engineers, sawyers, university professors, and a forester. The participants emphasized their interest not only in grading of green timbers but of evaluation of and grading of structural timbers in existing buildings, both of which are key goals of this training program.

Ron Anthony, wood scientist of Fort Collins, Colo., joined us again as a lead instructor covering the science behind the grading rules. Dave Kretschmann, of the Forest Products Lab in Madison, Wisconsin, assisted with the review of code regulations and issues relating to reclaimed materials. Matt Pomeroy and Don Pendergast from Northeastern Lumber Manufacturer's Association (NELMA) returned along with Floyd Corbin to provide the training in the use and interpretation of the grading rules.

Ten members of the group arranged again to stay in a local timber framed farm house. Grigg Mullen prepared wonderful southern breakfasts for all (grits, bacon, eggs, the works, oh yeah). The snow and ice had mostly



Tom Nehil, second from right, measures, while (from left) Steve Strong, Sergio Guindon, Sean Mahoney, and Janet Kane check with grading characteristics using the NELMA grading book.

melted, and the weather smiled on us.

At the end of the two and a half days of instruction and testing, students gave overwhelmingly favorable reviews and we all benefited greatly from the knowledge of the instructors. A new committee emerged from this year's course and is working on a guide to grading of timbers, with emphasis on timbers in existing buildings. A few of the TFEC members in attendance were inspired to develop some new graphics that we hope will make the concepts presented in the Western Wood Products Association (WWPA) and NELMA grading rules documents more accessible. We look forward to seeing what this group can produce over the course of the next year.

In the meantime, plans are being developed for another session of the grading course. Stay tuned for further announcements.

Links

Heartwood School—www.heartwoodschool.com/
TFEC—<http://timberframeengineeringcouncil.org/>
Forest Products Lab—www.fpl.fs.fed.us/
NELMA—www.nelma.org/
WWPA—www.wwpa.org/



The attendees and instructors of the 2015 Timber Grading course organized by the Timber Frame Engineering Council (TFEC).



photos Will Beemer

Lead Instructor Ron Anthony (left) makes a point to the grading class. NELMA grader and instructor Matt Pomeroy is at the blackboard.

Istanbul, from page 7

late 1500s and 1600s. Ottoman houses developed in many regional forms and were influenced by the rich cultural interchange that occurred at the “crossroads of the world.” Asia Minor has always been a rich ethnic mix of languages, religions, and origins reaching back 2000 years. Starting in the 1450s, the Ottoman Empire grew to include areas in Asia, the Middle East, Europe, and North Africa. Muslims, Christians, and Jews came to Istanbul, brought their culture, and influenced architectural styles of traditional Ottoman houses. The last few examples were saved from demolition and exist in Istanbul and throughout the country. Today hundreds of historic churches and palaces (and over 20 synagogues) remain in Istanbul.

The two-day symposium was sponsored by the city of Istanbul. Approximately 200 students, academics, architects, and local government officials took part. There were 20 speakers—mostly local academics and professionals, plus six invited guests from Canada, Europe, the U.S., and China. The presentation topics included historic timber bridges in China, restoration of large timber gates and windows in Italy, DNA identification of wood and paint samples, the European influence on traditional timber frame houses, and upgrading historic structures to meet current seismic design codes. Various Turkish government departments and major corporations support training programs for restoration of timber structures and fund many conservation projects throughout the country. Students from the local woodworking apprenticeship program displayed one-sixth-scale models of historic timber framed Ottoman houses, wooden moldings, and a restored set of full size 200-year-old entry doors.

One of the presenters was Ahmet Selbesoglu, who has won international recognition for restoration of various buildings of the Yildiz Palace Complex. This is the second largest palace in Istanbul, sitting on 180 acres of mostly walled garden and park in the middle of the city, just uphill from the shores of the Bosphorus Straits. The complex includes historic Ottoman administrative buildings, an opera house, palaces, residences, reception pavilions, theaters, the Imperial porcelain factory, and a vast garden. While inspecting the timber roof trusses, he found remains of a glass roofed timber frame solarium, once on top of the building, demolished 150 years ago. Starting with nothing more than two photos, and using microscopic and DNA analysis to determine timber type and paint color, they completely reconstructed the solarium to its original form.

Another presentation by a local architect dealt with a waterfront palace that had totally burned out, leaving just the four exterior walls. Forensic restoration techniques were used by the team, mapping, tagging, bagging, and moving the charred remains to several large warehouses for intense analysis. Across three years of intense restoration and reconstruction, using historic



photos courtesy Bruce Lindsay

Bruce Lindsay talking about wall infill with presenters and timber framers at Turkish symposium.

photos and burnt remnants from the fire, they recreated the structure. The restoration was delicate work with 350 people, including architects, restaurateurs, stone dressers, carpenters and painters, contributing to the renovation.

My presentation was about Timber Framers Guild volunteers working on community building projects in cross functional teams. The Pemberton barn was my case study. Volunteering, as in our model, is a new thing in Turkey. Normally in Turkey, volunteers contribute money, ideas, or professional services from a distance and visit the site as guests but do not join with the crew to work on the project. A couple of architects and a builder asked me a few questions and suggested that using volunteers this way might be a useful tool in their project management toolbox. I'll keep in loose contact with them and report back any progress.

Istanbul has a population of about 16 million, and with that critical mass, there is a good supply of skilled labor, highly trained craftsmen, and a low cost of labor. With the abundance of historical buildings that need fixing, they have a long history of restoration projects and are very successful using their own style of doing things. I don't see change coming any time soon.

At the conclusion of the symposium, our host held a dinner for the presenters in the Yildiz Palace restaurant. In addition to the setting and some excellent Turkish cuisine, the presenters got time to visit further and exchange information. This was the icing on the cake and really gave the experience a perfect ending. The symposium was a very interesting two days that made me even more aware of a long established academic, cultural, and historic restoration community in Turkey that we seldom hear about in the North American media. I'll keep you posted when I head back again.

President's thank you

JOHN MILLER

My time on the Timber Framers Guild board of directors has been both challenging and interesting. It has been a time of change and transformation for the Guild. Analysts are very clear that all organizations go through a life cycle from startup, through adolescence, to maturity. Mature organizations either stagnate and decline or go through a period of upheaval and renewal where they can find new energy, reaffirmed purpose, and a path to renewed vigor and achievement. This is a necessary but painful process. I believe our Guild is just emerging from such a time.

Many factors have come into play. The Great Recession brought unprecedented financial challenges to our members and the Guild at a time when we were barely able to withstand them. We learned we couldn't continue to operate without more financial rigor. The board worked hard to develop budgets and operating strategies that will allow the Guild to remain solvent and continue to deliver member services and actively pursue our mission. It was a process, and some very painful lessons were learned, but we now have a financially solvent organization and, most important, a plan in place to keep it that way.

We also couldn't continue to thrive without more member input and participation. I think we are now getting just that. After years of poor attendance and financial losses at our conferences, we have had two outstanding conferences in the east and are poised for our first successful western conference in quite some time. Regional meetings are building momentum and giving people more opportunities to gather and share the Guild experience. Projects continue to be an area of focus and learning. We have one scheduled this year and are always looking for more. Those are more opportunities for members to be involved and participate.

Governance has been another area of intense focus for the board, as we have tried to build the bones of a healthy organization. We have implemented procedures for attracting and educating potential candidates for board seats and conducting elections. We have fourteen strong candidates running in our election right now. I am excited about the energy I see headed onto the board.

Whatever the reasons for the initial creation of the business council, it became clear that the best interests of our community are served by bringing all of our constituencies under one roof. The whole is more than the sum of its parts. Our recent vote on the bylaws change saw unprecedented voter turnout and a 94% approval ratio for this reunion of the two organizations. I am excited at the opportunities to link our activities more closely and work together for mutual goals, just as we do with the other constituencies in our family of timber lovers. Personally, I am not worried about our mission



John Miller.

Al Zimmerman

and values being diluted by the business participation. The businesses are already here as individuals.

I am excited to have Jeff Arvin as our new executive director. I have been through several searches to fill this type of position. Never have I been more convinced that we have the right person in the seat. Jeff brings a deep knowledge of all aspects of our community. I wish him all success going forward.

It is important for me to note the depth of commitment and the extreme level of dedication in our Guild board. I have never been involved with a group of volunteers who gave so unstintingly of their time and resources as this group. Without their dedication and perseverance we wouldn't be where we are today. They made my job easy.

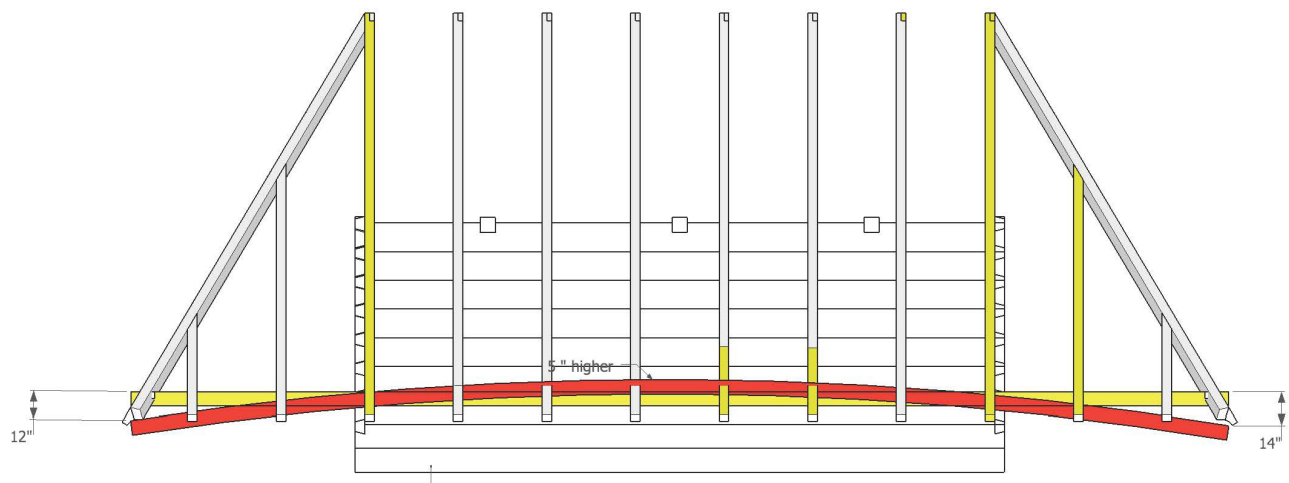
I don't know what direction my life would have taken without the influence of the Guild and its members. I do know that it has been enriched by the passion and integrity manifest in our community. My experiences at conferences, on projects, and at workshops, and my relationships with many friends—new and old—in the Guild, have helped me find purpose and meaning in my life. We don't always have the opportunity to give back to the community that has nurtured and supported us on our chosen path. It has been an honor and a pleasure to serve on the Guild board for the last six and a half years. I think the future is bright for our organization. I encourage you to get involved and experience that Guild magic for yourself.

Guild members help restore African House

A unique 19th-century building in Louisiana was given a new roof by Alicia Spence, Gerry David, Molly Dickerson, and others. The building, home to murals painted by folk artist Clementine Hunter in 1955 and, originally built by enslaved Africans, is 18 x 21 ft., with a roof nearly double that size. The roof was failing structurally for decades, with shingles 20 years overdue for replacement. In addition to replacing the roof, many of the principal timbers had to be repaired or replaced.

Alicia Spence and Gerry David led a Hands-On Preservation Experience (HOPE) crew in the reconstruction work at Melrose Plantation in Natchitoches Parish, Louisiana.

Read more about this project at <http://blog.preservationleadershipforum.org/2015/06/01/conservation-in-action-the-african-house-roof-restoration/#.VW2uaFy6fMU>



Alicia Spence

Roof drawing. Red indicates failed eaves plate in situ before restoration. Yellow highlights replacement timber.

Guild members help with Colonial Williamsburg raising

ACCACIA MULLEN

Over a few hot sunny days in early May, a group of Guild members from Lexington, Va., helped raise the frame for the new market building at Colonial Williamsburg (CW). Grigg Mullen Jr., Grigg Mullen III, Mez Welch and Will Barry Rec coordinated the A-frame raising, working with CW master carpenter Garland Wood and historic trades staff. While the historic trades carpenters cut the frame, joiners and brickmakers also worked on the raising.

Mullen's crew, along with VMI cadets and other Guild members, raised the timber frame at CW's Charlton's Coffeehouse in December, 2008.

To learn more about the market house project, visit <http://whatsnew.history.org/2014/09/welcome-to-the-reconstruction-of-the-market-house/>.



Accacia Mullen

Guild members and Colonial Williamsburg historic tradesmen raising with A-frame.

Frame-spotting in Switzerland

MICHAEL CUBA

For many years, I have been reading about the Guild's tours with anticipation of someday having the chance to go. After missing out on the Poland project, I was determined not to let another opportunity slip away. When the trip to Switzerland was announced, I knew immediately that I had to go. This was my first trip out of the country since 2000, and to add to the impending adventure, I have no sense of direction, my German is rudimentary, and my wife was unable to accompany me. That said, the trip was an overwhelming success and I think I can safely say that all who went would agree.

The tour began on a rainy morning in Bern, the capital city. David Bähler, an Indiana native, led the tour. Having been to Switzerland in 2012, David was well acquainted with the Berner Oberland region where we spent most of our time on the 11-day excursion. We stayed in two different hostels while we were there, the first located south of Bern in Aeschi bei Spiez. The second hostel, called the Kulturmühle (culture mill), is located northeast of Bern in the village of Lützelflüh, where it also serves the community as a performance art and exhibition space. The Kulturmühle operated as a grist mill from 1821 to 1970. Although no longer in operation, much of the mill workings are still present and functional.

We were lucky to have both of the hostels to ourselves. The twelve of us on the tour chose to cook our meals collaboratively and take turns with related household tasks. David had procured a massive wheel of local cheese, dried meats and fresh bread for our lunches.

Using the excellent Swiss public transportation network, we were able to explore several remote communities throughout the region. The picturesque villages looked like postcards, often with early castles and church



Original figures from the cathedral in Bern that had been buried in the yard. They are now in the Bern Museum.

spires rising prominently into spectacular views of the Alps. Although frequently we did not have access to the steeples or attics of the village churches, it was fascinating to see the material effects of the Protestant Reformation. Several of the churches featured frescos and relics that had been damaged or covered over during the Reformation. Many of the objects had been long forgotten until their discovery during later restorations. Perhaps the most impressive example was at the Cathedral in Bern where 47 life size statues that adorn the archivolt of the main entrance had been buried in the adjacent yard only to be rediscovered in the 1980s.

The continuity of the Swiss domestic architecture was notable. Although the arrangement of house and barn being built under one roof appears to decrease over time, the basic form and style remain the same. The elegant simplicity of the hybrid log and timber style of building has endured as a tradition for centuries and continues in new Swiss construction with few



Elaborate half lap brace on a bridge.



Liegender stuhl with half lapped braces.

exceptions. Naturally, we spent a great deal of time closely examining the joinery. One interesting detail we noticed was that the Swiss seemed to favor half-lapped, half dovetail knee braces over common mortise and tenon brace arrangements. The use of structural ridges and *liegender stuhl* roof systems to diminish outward thrust was a compelling contrast to common methods of managing roof loads in the U.S. Heavy sill systems with multiple exposed tusk tenons were common as well as wooden locks and hinges on barn doors. Overall, the cohesive nature of the Swiss style caused me to reflect on the often incongruous blending of architectural styles seen in many locations here in the U.S.

Having two engineers in the group proved invaluable for interpreting some of the more complicated structures that we encountered. Some of the most intriguing frames that we saw on the tour were the covered bridges. Although only two or so of the bridges that we visited had been part of the itinerary, we were fortunate to see several more in our travels. The age, magnitude, and complexity of the Swiss covered bridges are beyond anything that I have seen in the Northeastern U.S. Joinery that I had only seen previously in books, was common in these bridges.

Aside from the spectacular bridges, the highlight of the tour for many of us was the Ballenberg open air museum near Brienz. The 164-acre museum is home to over 100 early Swiss buildings from almost all of its cantons (districts). Although our tour focused heavily on the Berner Oberland region, Ballenberg gave us the opportunity to explore early architectural styles from all over Switzerland. Traditional crafters and trades people were on hand to demonstrate and answer questions. Seeing all of these examples in one place really helped to illustrate regional styles and variations in both materials and craftsmanship. Access to the buildings from top to bottom was largely unrestricted. We spent two days exploring the museum and could have easily stretched it out to three.

If anyone has been on the fence about going on a Guild tour, I can't recommend it strongly enough. We all had a wonderful time and want to thank David Bähler and the Guild for coordinating the trip!

For more information on Swiss joinery, David Bähler has written three articles for *TIMBER FRAMING* that can be found in TF 106, 110, and 114. Daily updates for the first nine days were posted to a blog on the Guild's website. A podcast was made by a reporter from swissinfo.ch, who accompanied us for a day.

Links

Kulturmühle—www.kulturmuehle.ch/
 Swiss Open-Air Museum—www.ballenberg.ch/
 Tour blog—www.tfgswisstour.wordpress.com
 Podcast—[www.swissinfo.ch/eng/](http://www.swissinfo.ch/eng/podcast_returning-to-switzerland/41457284)
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House in Ballenberg.

photos Michael Cuba

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Below: Tumblebug fire salvage,
 Willamette National Forest,
 December 2012

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APPRENTICE LOG

Host wanted for ATP training

CURTIS MILTON

We hope you enjoyed the solstice, wherever you were. Now, I need to ask a serious question: How much do you (or does your company) spend on continuing education? If you do not know the answer to that question then I ask, “Why not?”

The Apprentice Training Program of the TFG actively promotes education and educational opportunities for timber frame carpenters and those who want to know more about the trade. We continue to develop and deliver materials based on the outline created during the last two decades and registered with the DOL in 2009. We will be preparing materials to be shared at the conference in Idaho this fall.

More on that in the next *Scantlings*.

A recent test of the credentials attributed ATP members took place in the Chicago suburb of Glencoe. The Carpenter’s Union issued cards to six qualified timber frame carpenters of Trillium Dell Timberworks—four as Journeyworkers and two as apprentices—allowing

them to work on a union site. The cards came with a fee, but this transaction proves the value (and expense) in a market where organized labor retains power. The project involved specialty woodworking that necessitated the carpenters that cut the work also install the work. This is as it should be, in my opinion.

The ATP annual Assessment and Training topics have been selected, but the dates and location have not. Lift planning, signalling, raising, rigging, and risk assessment sum up the wish list. We actively seek a host shop and company community that will welcome us. The host company is allowed to attend the event for the cost of food. To date we have been hosted (twice each) by Trillium Dell Timber Works and Frameworks Timber. We would like to branch out. If you would like more information about being a host and bringing one instance of high quality low cost education to your company please write atc@tfguild.org or call Curtis Milton at 603/387-6770.

PechaKucha comes to the 2015 TFG Conference

JEFF ARVIN

I’m betting the timber frame community is capable of more than great buildings. I bet there are all sorts of passions, talents, ideas and inspiring stories out there just waiting to be shared. So, at the upcoming TFG conference, we’re going to create an opportunity to shine light on these heretofore unknown gems.

We’re going to conduct a PechaKucha. That’s puh-CHA kuh-CHA.

PechaKucha is a simple presentation format where you show 20 images, each for 20 seconds. The images advance automatically and you talk along with the images. The originators, a couple of Japanese architects, say they invented PechaKucha because architects talk too much. Give a microphone and some images to an architect—or most creative people for that matter—and they’ll go on forever!

So PechaKucha is fast-paced and informal. Anyone can present. You could talk about one project in depth, show the process of making something, share an outside interest somehow related to timber framing, or try out a crazy idea on your colleagues. It’s like a six-minute TED talk.

Good PechaKucha presentations are the ones that uncover the unexpected. Some PechaKuchas tell great stories about a project or a trip. Some are incredibly personal, some are incredibly funny, but all are very

different, and they turn each PechaKucha into “a box of chocolates”—you never know what you’re going to get.

This is not another slide show! We’re looking for 10 or so brave souls to step forward and share something in six minutes. Your reward will be the undying respect and admiration of your timber framing friends, and you will have contributed to making our 30th birthday conference a memorable one.

Drop me a line at jeff@tfguild.org if you’d like to participate.



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PechKucha night in Romania.

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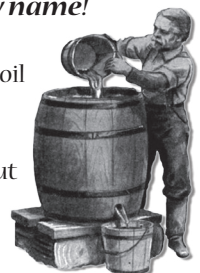
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EVENTS



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 events

North-Central Regional Meeting Jul 10–12, Grand Marais, Minn.
Peter Henrikson.

2015 TFG Conference Oct 29–Nov 1, Coeur d'Alene, Idaho. **Sue Warden**, 855/598-1803.

Regional meetings

In Grand Marais, Mich. July 10–12

More information at www.tfguild.org/events/regional-meetings

other events

EcoNest Natural Building

In Ashland, Oregon—

EcoNest Intensive Jul 6–24

Timber framing Jul 6–10

Straw-clay walls Jul 13–16

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

Heartwood School

Comprehensive homebuilding Jul 6–17

Finish carpentry Jul 20–24

Carpentry for women Jul 27–31

Converting trees to timber Aug 3–7

Timber framing Aug 10–14

Timber frame design and joinery decisions Sep 8–10

Compound joinery for timber framers Sep 14–18

Advanced SketchUp Pro: Layout Sep 11–12

Fundamentals of woodworking Sep 28–Oct 2

Cabinetmaking Oct 5–9

Art du Trait Oct 12–16, Oct 19–23

Tangent handrailing Nov 5–7

Washington, Mass. Michele Beemer, www.heartwoodschool.com, 413/623-6677.

Hudson Valley Vernacular Architecture

Hurley Stone House day, HVVA picnic Jul 11, Hurley, N.Y.

Tour of historic farms Sep 19, Shawangunk, N.Y.

www.hvva.org.

North House Folk School

German-style timber framing Jul 6–10

Timber carving tutorial Jul 7–10

Timber frame engineering: an introduction Jul 9

Timber frame roof and truss engineering Jul 10

SketchingUp your timber frame Jul 10

Build your own timber frame—smaller frames Jul 14–22

Build your own timber frame—large frame Aug 15–24

Grand Marais, Minn. www.northhouse.org, 888/387-9762.

Rocky Mountain Workshops

Square rule timber framing: straight and curved timbers

Skip Dewhurst, Josh Jackson Aug 16–22

Designing with SketchUp / Eli West Sep 25–28

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

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

Sobon/Carlton

Traditional timber framing / Jack Sobon, Dave Carlton

Sep 23–27, Hancock Shaker Village, Pittsfield, Mass.

Dave Carlton, 318 Bates Rd, Windsor, MA 01270, 413/684-3612, or


Jack Sobon, 613 Shaw Rd, Windsor, MA 01270, 413/684-3223.


Timberframes of Australia

Intro to timber framing: scribe rule Aug 17–21


Adelaide Hills, Australia

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for sale

Bubble scribes.

Heartwood is partnering with TimberHomes LLC to produce a limited run (25) of unique, innovative bubble scribes. These tools are specifically designed to lay out round to round and round to square joinery, and they have a much longer and agile reach than conventional log scribes. Half of this run is already spoken for, and we are looking for homes for the rest. \$450 plus S&H. [Read more info](#) or call Will Beemer at 413/623-6677.

Shop contents.

Northern California custom woodworking and timber framing shop contents with saw mill capacity and wood storage building. Includes Woodmizer LT40; Bridgewood machines: 2-ft.-wide planer, sander, band saws; many timber framing shop and assembly tools; 6k forklift; plus a lot more tools and supplies. Selling all as a unit. Not prepared to sell piece by piece at this time.

Want to set up a workshop—timber framing capability quickly? Or want to buy our 26 acres in Nevada City, Calif., with hilltop timber framed house, shop at the bottom?

Email [Martha Lingen](#) or call 530/292-9449.

help wanted

CAD draftsperson.

The Cascade Joinery, Bellingham, Wash., currently has an opening for a CAD draftsperson. While drafting will be most of the work day to day, especially at first, we are not looking for someone who just wants to stare at a monitor. This is a chance for the right candidate to help develop process and systems. Client interaction and some project coordination involved. As we continue to grow there will be opportunity to continue to take on more responsibility. Competitive salary and benefit package. Resume and references required. Please do not call. [Email our office](#).

Designer.

[The Barn Yard](#), a 30-year-old construction company in Ellington, Ct., specializing in custom homes, garages, barns, and commercial projects, seeks a full time timber frame designer. Our company has built thousands of custom projects in the New England area and continues to grow. You will work in our brand new, state-of-the-art design-manufacturing facility with 5-axis CNC timber processor. Duties include 3D modeling of timber frames, shop drawings, and ability to communicate with architects and clients. Hands-on construction experience preferred. Must be proficient in SketchUp, Cadworks, and AutoCAD. Full benefits. Please email [Everett Skinner IV](#) or call 860/896-0636.

Designer.

[Spearhead](#), a design-driven heavy timber manufacturer participating in award winning projects around the world, is looking for an experienced timber detailer. Experience with CADworks is important, but not a prerequisite. Our company is in beautiful Nelson, B.C.—a wonderful small town to raise a family or just enjoy the pristine environment. Competitive wages, medical plan and vacation/holiday package. If you are interested in joining our team, please call [Randy](#).

Designers and engineers.

[Fire Tower Engineered Timber](#), a specialty structural engineering firm, is hiring engineers and designers of all skills. For details, check with [Joe](#) or [Mack](#).

Production manager.

[The Barn Yard](#), a 30-year-old construction company in Ellington, Ct., specializing in custom homes, garages, barns, and commercial projects, is searching for a full time timber frame production manager. Our company has built thousands of custom projects in the New England area and continues to grow. You will work in our brand new, state-of-the-art design-manufacturing facility with 5-axis CNC timber processor. Duties include overseeing raisings, building, managing the shop: staffing, scheduling, production cycles, estimates, shop standards. Manage tool inventory, purchases, maintenance, repairs, and inspections. Requires close collaboration the design team, shop foreman, project managers, and sales manager. Must have 5-plus years of work experience in heavy timber fabrication and erection. Full benefits. Please email [Everett Skinner IV](#) or call 860/896-0636.

Professor of carpentry and professor of timber framing (two positions).

The [American College of the Building Arts](#) seeks professors to teach an established curriculum for the Fall 2015 and Spring 2016 terms. Masters degree preferred but other combinations of education and experience considered. Must provide evidence of quality teaching, professional experience, commitment to professional growth, ability to enhance ACoBA's educational effectiveness.

Ability to use hand tools, maintain hand and power tools, implement shop safety. Knowledge of traditional joinery and modern production-oriented wood construction.

Carpentry professor topics:

For fall: milling and installation of siding, trim, etc.; soffit and fascia; panelling, baseboard, other trim; fabricating furniture and cabinets. For spring: fabricating windows, door types, shutters, casing and trim systems, restoration-preservation.

Timber framing professor topics:

For fall: shop safety; wood science; hand tool sharpening, use, and maintenance for joinery; square rule layout; scribe rule layout. For spring: safety and use of stationery power tools; stick framing; small projects; repair assessment (proposal, schedule) of timber structures; restoration-preservation of timber structures.

To apply, send a portfolio (non-returnable) and resume to

NOTICES



Bruno Sutter, Professor of Timber Framing and Carpentry, Wood Department, American College of the Building Arts, 21 Magazine St, Charleston, SC 29401. 843/412-3124.

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Sustainable design-build program: two positions.

Kennebec Valley Community College, in Fairfield, Maine, is seeking two people for its new sustainable design build program, made available to the college through a DOL-ETA grant.

The timber frame adjunct instructor will teach, organize, and coordinate courses in the two-year Associate of Applied Science degree program, including framing and joinery I and II, design studio: CAD/BIM, safe work practices, and wood science. Required are an Associate degree and 3–5 years building experience with emphasis on timber framing, as well as professionalism and interpersonal skills with colleagues and students.

The program coordinator, a half-time position, will manage the program: build relationships with local industry partners, market, manage logistics, cultivate student opportunities, and ensure that grant deliverables are produced on time. Required are an Associate degree and 3–5 years experience in at least two of: project management, building, timber framing, program marketing, grant management, forestry, or timber harvesting. Bachelor's or Master's degree desired.

For each position, send a cover letter, resume, transcript, **KVCC application for employment**, and 3 professional references, to **Monica Wood**, Kennebec Valley Community College, 92 Western Ave, Fairfield, ME 04937-1367, 207/453-5000.

Timber framer–fitter.

Riverbend Timber Framing seeks a full time timber framer/fitter to assist with the execution of any and all tasks associated with the fabrication and installation of milled and timber frame product lines. Required: high school diploma or GED, 2+ years construction/manufacturing experience, demonstrated performance in construction/manufacturing environment, basic math and measuring skills, basic computer skills.

Responsibilities: adhere to employee manual, safety procedures, all company policies and processes; work as a member of the operations team in all assigned tasks, operate and perform basic maintenance of all operations/yard equipment including, but not limited to: chainsaws, forklifts, bridge crane, misc shop machines and hand tools; fabricate

product; pre-fit, disassemble, and unitize project for shipment; install product at site; some travel required.

Highly demanding, fast paced, task oriented, repetitious lifting of up to 75 pounds, continuous bending, twisting, and standing 10 hours per day in a manufacturing facility, continuous bending, twisting and standing 12 hours per day in an outdoor environment during installation at build site. We offer a competitive benefits package including health insurance and 401K. Wages based on experience. An Affirmative Action/Equal Opportunity employer.

Direct your inquiry and resume to **Human Resources**.

Woodcrafters–timber framers.

Daizen Joinery, in British Columbia, is looking for a couple of experienced wood crafters and timber framers who can work on high quality joinery work. Please submit resume to **Dai Ona**.

employment wanted

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Itinerant timber framer based in southern Vermont seeks hand-cut work. Can provide resume and references. Have hand tools.

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New timber frame program at Maine community college

Kennebec Valley Community College has announced a new sustainable design-build (timber frame) program, funded in part by a trade adjustment assistance community college and career training federal Department of Labor grant. The first of its kind at a community college in Maine and possibly New England, the program will lead to an associate in applied science degree and provide students with skills required to work in timber framing and related fields. The program is designed to take a student from start to finish in the design-build process by including computer aided design, coverage of the range of needs for the building envelope, and hands-on training in the skill of joinery.

The program's core will be hands-on joinery training with sustainable forestry, architectural history, and building restoration, with project management also covered. Students will learn shop safety, blueprint reading, applied math, and general construction methods. Experiential work will be done in the joinery lab and internships done with joinery contractors or related businesses like construction management, historic

preservation, town zoning, and housing nonprofits, or in technical trades like plumbing or heating and cooling. As a capstone project, each cohort of students will build either a campus-based structure or one for the community.

Greg Fletcher, chair of the Trades & Technology Programs department at KVCC, says, "Using modern training equipment, innovative teaching methods and highly trained faculty members, the program endeavors to fully prepare students for a variety of building construction occupations." Fletcher is hiring—see the two positions described on page 19.

Links

Greg Fletcher—sdb@kvcc.me.edu

Job notice—pg. 19 and www.tfguild.org/events/notices

Program overview—[www.kvcc.](http://www.kvcc.me.edu/CMSContent/Documents/AdvisingGuides/2014-2015/Sustainable_Design-Build.pdf)

[me.edu/CMSContent/Documents/AdvisingGuides/2014-2015/Sustainable_Design-Build.pdf](http://www.kvcc.me.edu/CMSContent/Documents/AdvisingGuides/2014-2015/Sustainable_Design-Build.pdf)